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**Species inventories of selected insect groups in
the Bílé Karpaty Protected Landscape Area
and Biosphere Reserve (Czech Republic)**

IGOR MALENOVSKÝ, PETR KMENT & ONDŘEJ KONVIČKA (Eds.)

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EDITORIAL

The Bílé Karpaty Mts. [White Carpathians] lying on the border of the Czech Republic and Slovakia has traditionally been known among biologists as a region which has an outstandingly species-rich flora and is particularly famous for large areas of semi-natural grasslands which belong to the most diverse plant communities in Europe. For its great values for nature conservation, the Bílé Karpaty was accorded the status of a Protected Landscape Area in both the Czech Republic and Slovakia, as well as of a UNESCO Biosphere Reserve within the Man and Biosphere programme. The invertebrate fauna of the region has been, however, largely overlooked (with a few noteworthy exceptions, e.g. butterflies and moths) until quite recently.

This special issue of the journal *Acta Musei Moraviae, Scientiae biologicae* brings together data gathered in the last 15 years by entomologists from several institutions on the fauna of a number of insect groups, terrestrial and aquatic, in the form of annotated lists of species occurring in the Czech part of the Bílé Karpaty Mts. They clearly show that the invertebrate fauna of the region is remarkably diverse as well. We hope that, in addition to characterising the regional insect fauna and improving knowledge on the distribution of many individual insect species in the Czech Republic and central Europe, this volume will also bring some necessary basic information for the challenging needs of modern nature conservation management to consider the habitats under protection from a wide, biological perspective.

We would like to extend our warmest thanks to Ivana Jongepierová (Bílé Karpaty Protected Landscape Area Management and Czech Union for Nature Conservation, Local Section Bílé Karpaty, Veselí nad Moravou); Pavel Bezděčka (currently Muzeum Vysočiny, Jihlava); and Miroslav Janík (Czech Union for Nature Conservation, Local Section Kosenka, Valašské Klobouky) for their encouragement and long-term support of research in the Bílé Karpaty Mountains. Our sincere thanks are also extended to Tony Long (Svinošice), for helping to sub-edit the historical, narrative and procedural parts of the English text, and Jiří Kolibáč (Moravian Museum, Brno) for his painstaking typesetting of the whole volume and its preparation for print. Individual contributions were reviewed by Pavel Bezděčka, Jindřiška Bojková (Faculty of Science, Masaryk University, Brno), David Boukal (University of South Bohemia and Institute of Entomology, Biology Centre, Academy of Sciences of the Czech Republic, České Budějovice), Libor Dvořák (Městské muzeum, Mariánské Lázně), Martin Fikáček and Jiří Hájek (both National Museum, Prague), Karel Hradil (State Phytosanitary Administration, Jičín), Ivana Jongepierová, Il'ja Krno (Faculty of Natural Sciences, Comenius University, Bratislava), Magdaléna Roháčová (Muzeum Beskyd, Frýdek-Místek), Ladislav Roller (Institute of Zoology, Slovak Academy of Sciences, Bratislava), Rudolf Rozkošný (Faculty of Science, Masaryk University, Brno), Tomáš Soldán (Institute of Entomology, Biology Centre, Academy of Sciences of the Czech Republic, České Budějovice), Karel Tajovský (Institute of Soil Biology, Biology Centre, Academy of Sciences of the Czech Republic, České Budějovice), and Robert Vlk (Faculty of Education, Masaryk University, Brno) to all whom we are most grateful. Miloslav Žmolík and Karel Ovesný (Bílé Karpaty Protected Landscape Area Management, Luhačovice) kindly assisted in preparing the maps. The publication of this issue was financially supported by the grants MK00009486201, MK00002327201 and VaV SP/2d3/54/07.

Igor Malenovský, Petr Kment and Ondřej Konvička

ÚVODNÍ SLOVO EDITORŮ

Bílé Karpaty na pomezí České republiky a Slovenska jsou mezi biology tradičně vnímány jako oblast s výjimečně pestrou flórou. Zejména vyhlášené jsou její polopřirozené květnaté louky, které se zde dosud vyskytují na velkých rozlohách a patří mezi druhově nejbohatší rostlinná společenstva v Evropě vůbec. Pro své nesporné přírodní hodnoty byly Bílé Karpaty v České republice i na Slovensku vyhlášeny chráněnou krajinnou oblastí a jejich moravská strana též biosférickou rezervací v rámci programu UNESCO Člověk a biosféra. Fauna bezobratlých (až na několik výjimek, např. motýly) zde však byla až do nedávné doby spíše přehlížena.

Toto zvláštní číslo časopisu *Acta Musei Moraviae, Scientiae biologicae* sdružuje výsledky faunistického průzkumu řady skupin suchozemského i vodního hmyzu, uskutečněného v Bílých Karpatech v posledních 15 letech entomology z několika institucí. Komentované přehledy druhů vyskytujících se na moravské straně Bílých Karpat jasně ukazují, že zdejší fauna bezobratlých je rovněž výjimečně rozmanitá. Věříme, že kromě detailních charakteristik regionální fauny a doplnění znalostí o rozšíření řady jednotlivých hmyzích druhů v České republice a střední Evropě tento svazek poskytne také nutné základní informace pro potřeby praktické ochrany přírody, která v současné době stále častěji stojí před nelehkým úkolem pohlížet na svěšené biotopy ze širší biologické perspektivy.

Náš vřelý dík patří RNDr. Ivaně Jongepierové (Správa CHKO a ZO ČSOP Bílé Karpaty, Veselí nad Moravou), Pavlu Bezděčkovi (nyní Muzeum Vysočiny, Jihlava) a Miroslavu Janíkovi (ZO ČSOP Kosenka, Valašské Klobouky) za stimulaci a dlouhodobou podporu výzkumu v Bílých Karpatech. Děkujeme též Tony Longovi (Svinošice) za pečlivou jazykovou kontrolu narativních částí anglického textu a ing. Jiřímu Kolibáčovi, CSc. (Moravské zemské muzeum, Brno) za náročnou sazbu celého svazku a pomoc s přípravou jeho tisku. Recenzi jednotlivých příspěvků se ujali Pavel Bezděčka, Mgr. Jindřiška Bojková, Ph.D. (Přírodovědecká fakulta, Masarykova univerzita, Brno), David Boukal, Ph.D. (Jihočeská univerzita a Entomologický ústav, Biologické centrum AV ČR, České Budějovice), Libor Dvořák (Městské muzeum, Mariánské Lázně), Mgr. Martin Fikáček, Ph.D. a Mgr. Jiří Hájek, Ph.D. (oba Národní muzeum, Praha), ing. Karel Hradil, Ph.D. (Státní rostlinolékařská správa, Jičín), RNDr. Ivana Jongepierová, prof. RNDr. Il'ja Krno, DrSc. (Přírodovědecká fakulta, Univerzita Komenského, Bratislava), ing. Ladislav Roller, Ph.D. (Ústav zoológie, Slovenská akadémia vied, Bratislava), RNDr. Magdaléna Roháčová, Ph.D. (Muzeum Beskyd, Frýdek-Místek), prof. RNDr. Rudolf Rozkošný, DrSc. (Přírodovědecká fakulta, Masarykova univerzita, Brno), prof. RNDr. Tomáš Soldán, DrSc. (Entomologický ústav, Biologické centrum AV ČR, České Budějovice), RNDr. Karel Tajovský, CSc. (Ústav půdní biologie, Biologické centrum AV ČR, České Budějovice) a Mgr. Robert Vlk, Ph.D. (Pedagogická fakulta, Masarykova univerzita, Brno), kterým jsme rovněž zavázáni. Miloslav Žmolík a Karel Ovesný (Správa CHKO Bílé Karpaty, Luhačovice) nám laskavě pomohli s vytvořením mapek. Publikace tohoto čísla byla finančně podpořena výzkumnými záměry MK00009486201 a MK00002327201 a grantovým projektem VaV SP/2d3/54/07.

Igor Malenovský, Petr Kment a Ondřej Konvička

The Natural History of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic)

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KONVIČKA O., MALENOVSKÝ I., KMENT P. & ŽMOLÍK M. 2012: The Natural History of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic). In: MALENOVSKÝ I., KMENT P. & KONVIČKA O. (eds.): Species inventories of selected insect groups in the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic). *Acta Musei Moraviae, Scientiae biologicae* (Brno) **96(2)** (2011): 7–35. – This paper summarizes the basics of the geology, geomorphology, hydrology, climate, soils, post-glacial history, nature conservation, flora, vegetation, and fauna of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve in south-eastern Moravia, Czech Republic. The aim is to provide a general background, particularly for the contributions dealing with the fauna of a number of the insect groups that occur in this region that are included in this volume of the journal.

Keywords. White Carpathians, Moravia, topography, geology, geomorphology, hydrology, climate, pedology, post-glacial history, nature conservation, flora, vegetation, fauna, biogeography

Introduction

The Bílé Karpaty Protected Landscape Area (abbreviated to PLA hereafter) was established in 1980 and covers an area of 715 km² (PECHANEC & JONGEPIEROVÁ 2008). It is situated between 48°48'45"–49°10'11"N and 17°15'04"–18°13'47"E (KRAMÁRIK 1992a, JONGEPIER & PECHANEC 2006) in south-eastern Moravia (Czech Republic) and extends some 80 km along the Czech-Slovak border (which was itself finally formalised in 1997; KMENT 2009) between the villages of Sodoměřice in the south-west and Nedašova Lhota in the north-east (Figs 1, 2). The Bílé Karpaty PLA covers most of the Czech part of the Bílé Karpaty Mts. [White Carpathians]. The Slovak part of the mountains is also protected by law, as the Biele Karpaty Protected Landscape Area, established in 1979 over an area of 435 km² (PECHANEC & JONGEPIEROVÁ 2008).

The Bílé Karpaty Mts. make up a region with an outstanding diversity of flora and fauna, something due, at least in part to long-term harmonious usage on the part of local people. This was recognised when the Bílé Karpaty PLA was accorded the status of a UNESCO Biosphere Reserve within the Man and Biosphere (MaB) programme in 1996.

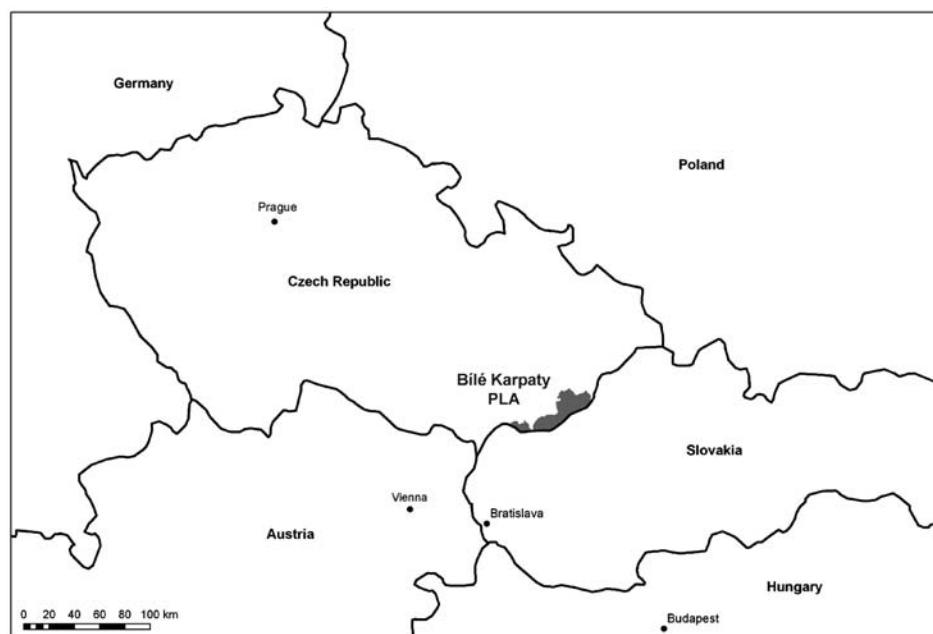


Fig. 1. Location of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (PLA) in the Czech Republic and central Europe.

Detailed information on the natural history of the Bílé Karpaty Mts. may be found particularly in monographs by KUČA *et al.* (1992), MACKOVČIN & JATIOVÁ (2002) and JONGEPIEROVÁ (2008). This paper summarizes basic data on the geology, geomorphology, hydrology, climate, soils, post-glacial history, flora, vegetation, and fauna of the area. The aim is to provide a general background, particularly for the contributions dealing with the fauna of a number of the insect groups that occur in the Bílé Karpaty PLA that are included in this volume of the journal.

Geology

Most of the Bílé Karpaty PLA belongs to the outer part of the Western Carpathians (with the exception of a small belt between the village of Sodoměřice and the town of Strážnice in the south-westernmost tip of the PLA, formed by the Miocene sediments of the Vienna basin). The Western Carpathian system, including the Bílé Karpaty Mts., is represented in the Czech Republic largely by the Cretaceous to Palaeogenic sea sediments known as the flysch zone. The flysch zone in the Bílé Karpaty PLA (Magura flysch) is formed by three units, from north to south: the Rača, Bystrica and Bílé Karpaty units (STRÁNÍK & JANEČKOVÁ 1992, CHLUPÁČ *et al.* 2002). Each of them is composed of

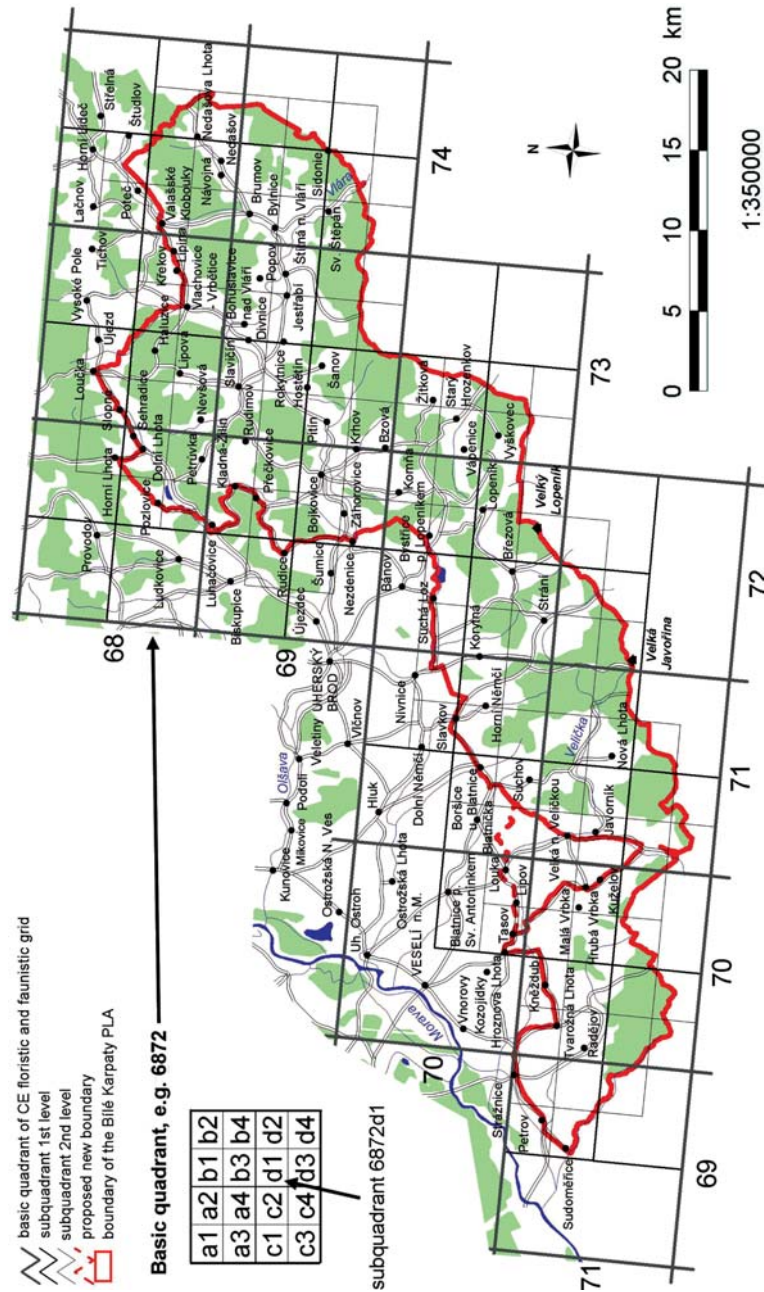


Fig. 2. Topography of the Bílé Karpaty PLA with the grid of the faunistic and floristic grid mapping system of central Europe (reprinted from JONGEPIER & PECHANEC 2006) and the system of coding the subdivisions of a basic field adopted in this volume of the journal.

many alternating layers of sandstones and rock clay, a few centimetres to metres thick, often rich in calcium carbonate. The entire sequence of these layers may reach a depth of several hundred metres.

This geological structure leads to the frequent occurrence of landslides, especially after long periods of rain (ŽÍDEK 1992, ŠVEHLÍK 2005). Water, having penetrated permeable sandstones, reaches impermeable clay layers which then swell up, creating sliding surfaces. The physical and chemical properties of alternating clay and sandstone sediment layers underly the origin of a number of biotopes characteristic of the outer Western Carpathians (e.g. fine-scale mosaics of dry and moist, or calcium-rich and calcium-poor patches, depending on the local substrate and landslides, the frequency of emergence of springs on slopes, etc.; see also the *Hydrology* section), something that is sometimes referred to in ecological literature as the “marl (or flysch) phenomenon” (KUČERA 2005).

The layered structure of the Magura flysch is broken by numerous tectonic faults. Some of these reach deep below the flysch layers and are locally associated with ascensions of carbon dioxide and hydrogen sulphide (e.g. in the environs of the town of Luhačovice, which is rich in mineral springs; mineral sources also occur in the environs of Březová, Suchá Loz and other places, see also KUČA 1992) as well as neogenic eruptive rocks – andesites and basalts (particularly in a belt passing along the Nezdenský zlom Fault from the village of Bánov through Komňa towards the town of Bojkovice; STRÁNÍK & JANEČKOVÁ 1992, CHLUPÁČ *et al.* 2002, PECHANEC & JONGEPIEROVÁ 2008).

Geomorphology

The highest point of the Bílé Karpaty PLA is Mt. Velká Javořina (970 m), the lowest is the village of Petrov (175 m) near Strážnice in the Lower Morava river valley (Fig. 3). In the geomorphological physiognomy of the Czech part of the Bílé Karpaty Mts., smoothly modelled relief features with strongly variable amplitudes of slopes and altitudes dominate. Convex shapes prevail over concave ones (DEMEK 1965). The relief is formed largely by broad, flat, not particularly extended ridges without rock outcrops. The ridges are divided by steep, open, valleys, 50–250 m deep. The relief is determined by differences in the resistance of various flysch layers to erosion: the highest, morphologically most pronounced mountains (e.g. Velká Javořina and Velký Lopeník massifs) are formed of hard sandstones while places with softer clay bedrock have given rise to long, gentle slopes and rounded ridges. Other pronounced features of the relief include the usually torrential nature of its streams, which have marked gradients (KRAMÁRIK 1992b, PECHANEC & JONGEPIEROVÁ 2008), and a prevalence of erosion processes over accumulation (ŠVEHLÍK 2002, 2005). From a biological point of view, the absence of natural rock outcrops is partly compensated by a number of small quarries in the central part of the Bílé Karpaty (e.g. in the environs of Komňa and Starý Hrozenkov).

The Bílé Karpaty PLA is situated in three orographic units: the Bílé Karpaty Mts. [White Carpathians] and Vizovická vrchovina Highlands, both of which belong to the Western (Moravian-Slovak) Carpathian system, and the Dolnomoravský úval [Lower

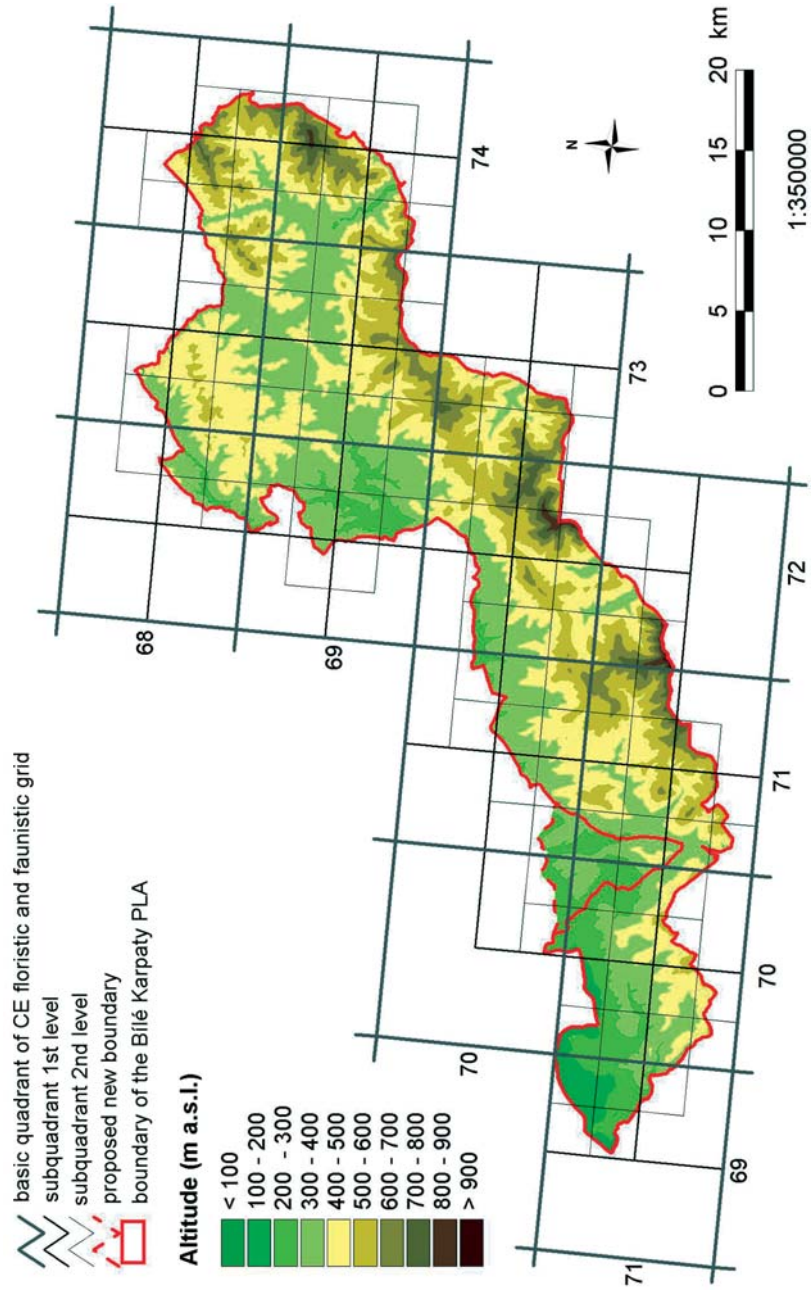


Fig. 3. Altitudes above sea level (m) in the Bílé Karpaty PLA (reprinted from JONGEPIER & PECHANEC 2006).

Morava river valley] which is part of the Western Pannonian (Southern Moravian) basin. The largest part is the Bílé Karpaty Mts. unit, which extends along the Czech-Slovak border from the south-west (environs of the town of Strážnice) to the north-east (the Lyský průsmyk Pass). The Moravian part of the Bílé Karpaty Mts. has an area of 575 km² and a mean altitude of 473 m. The Bílé Karpaty Mts. are divided into several subunits, from south-west to north-east: the Žalostinská vrchovina Highland (highest point: Kobyla Hill, 584 m); the Javořinská hornatina Mts. (Velká Javořina Mt., 970 m), Straňanská kotlina Valley (lowest mean altitude: 479 m), the Lopenická hornatina Mts. (Velký Lopeník Mt., 911 m), and the Chmeřovská hornatina Mts. (Průklesy Mt., 836 m). The Vizovická vrchovina Highlands unit covers the north-western part of the Bílé Karpaty PLA (north of the line Bojkovice – Bohuslavice nad Vlčí – Vlachovice) and is divided into two subunits: the Hlucká pahorkatina Hills (mean altitude: 271 m) and the Luhačovická vrchovina Highlands (mean altitude: 410 m). The Dolnomoravský úval Valley unit forms the south-westernmost tip of the Bílé Karpaty PLA – this is lowland, with small hills on soft Neogenic and Quaternary sediment beds (KRAMÁRIK 1992b, DEMEK & MACKOVČIN 2006, PECHANEC & JONGEPIEROVÁ 2008).

Hydrology

The Bílé Karpaty PLA straddles the catchment areas of the Morava and Váh rivers, both of which flow into the Black Sea (Fig. 4).

The larger part of the area is drained by tributaries of the River Morava, particularly the Olšava, Okluky, Svodnice, Velička, Myjava, and Radějovka streams. The north-western part of the Bílé Karpaty PLA is part of the drainage basin of the Olšava stream (drainage basin area 112.2 km²; stream length 13.8 km; average discharge 0.66 m/s). Noteworthy tributaries of the Olšava stream include the Horní Olšava (Šťavnice), and the Kolelač, Kladenka, Koménka, and Bzovský potok streams. The central-southern part of the Bílé Karpaty Mts. is drained by the Velička stream (drainage basin area 66.6 km²; stream length 12.3 km; average discharge 0.47 m/s), the Okluky brook and, to a lesser extent the Svodnice brook as well. The south-western part of the area is drained by other left tributaries of the River Morava, the Myjava and Radějovka streams.

The north-eastern part of the Bílé Karpaty PLA along the Slovak border is drained by the Vlára river and its tributaries (e.g. the Brumovka stream) which flow into the River Váh in Slovakia (Fig. 15). Figures for the drainage basin of the Vlára river on the territory of the Bílé Karpaty PLA are: drainage basin area 323 km²; stream length 30.7 km; and average discharge 3.20 m/s (VLČEK 1984). The watershed between the River Morava and Váh catchment areas largely follows the main ridge of the Bílé Karpaty Mts. in the southern part of the area. However, the Vlára river in the northern part and three smaller streams (the Drietomice stream near Starý Hrozenkov, the Hrubár (= Bošáčka) stream near the village of Březová, and the Klanečnice stream near Strání) have back-cut the main ridge through headward erosion and drain the water away from the original catchment area of the River Morava into the River Váh, a classic example of river piracy, also known as river capture.

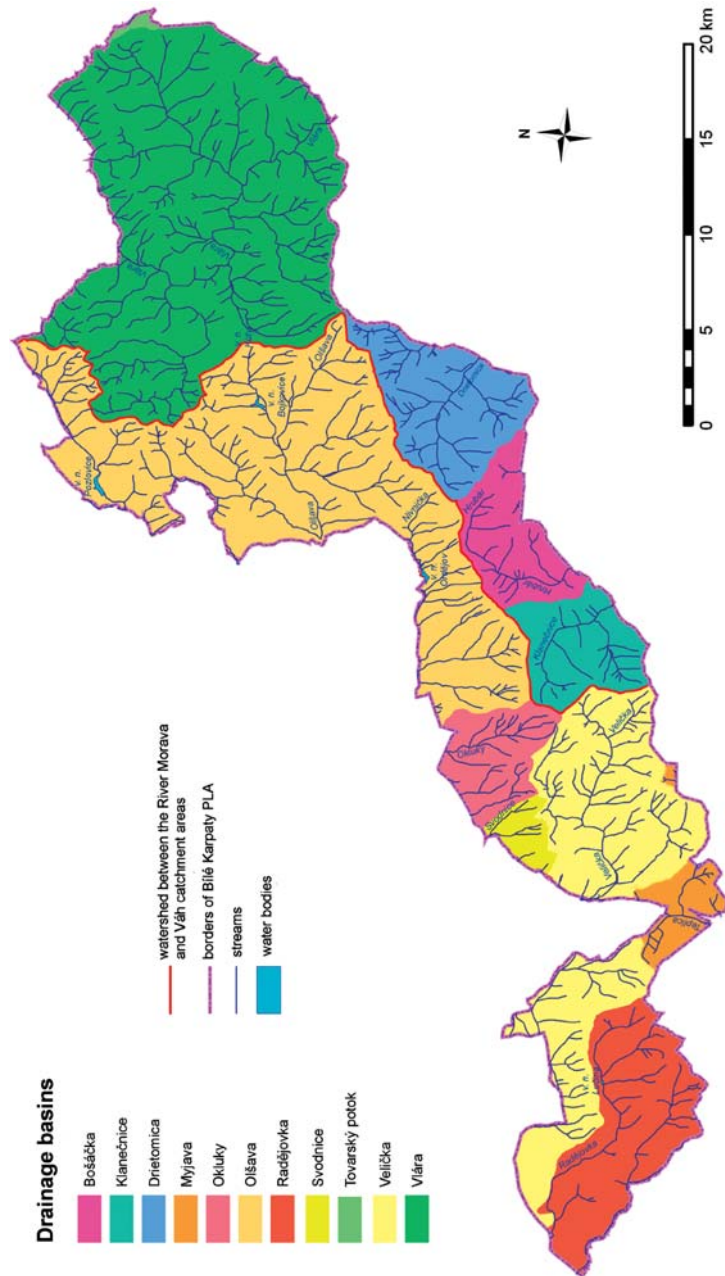


Fig. 4. Hydrology of the Bílé Karpaty PLA (source of GIS data: Agency for Nature Conservation and Landscape Protection of the Czech Republic, 2010).

The Bílé Karpaty PLA lacks large natural bodies of standing water (lakes, oxbow-lakes, etc.). There are a few artificial water reservoirs (e.g. the Pozlovická vodní nádrž reservoir on the Horní Olšava stream, the Bojkovice reservoir on the Kolelač stream, and the Ordějov reservoir near Suchá Loz, etc.). These are, however, only of local importance (DOSTÁL & PETRUJOVÁ 1992b).

Due to a geological structure largely based on flysch, the Bílé Karpaty PLA is a region generally poor in underground waters, since a high surface run-off results from the impermeability of clay layers in the bedrock. Underground waters are confined only to the larger masses of sandstones and Quaternary fluvial sediments along certain streams (e.g. the Olšava, Velička, Radějovka, and Vlára). Springs are scattered across the whole flysch area but are usually of relatively low discharge. They are frequently exposed by landslides and usually occur on slopes and valley bottoms where they form characteristic cascades and spring fens at the transitions between permeable and impermeable substrate layers. The Magura flysch rocks are often rich in calcium carbonate (present in the form of a calcareous cement or small “dams” filling cracks in the rock), which is frequently washed out and subsequently precipitated from cold water solution rich in $\text{Ca}(\text{HCO}_3)_2$, giving rise to tufa deposits (LOŽEK 2007). Meadow spring fens in the Bílé Karpaty PLA are characterized by a combination of permanent water-logging (by underground water), insolation, and frequently high mineral richness (particularly calcium) as well. Although such microhabitats are often quite small (e.g. just a few square metres), they host specific and species-rich assemblages of plants, fungi and arthropods (e.g. testate amoebae, molluscs, clitellates, and aquatic and phytophagous insects) and play a role as refuges for rare species or even entire communities (HÁJEK *et al.* 2005, HORSÁK 2005, POULÍČKOVÁ *et al.* 2005, BOJKOVÁ *et al.* 2011, KŘOUPALOVÁ *et al.* 2011, etc.).

The Nezdenický zlom Fault is associated with mineral sources that occur along the line Březová – Suchá Loz – Nezdenice – Luhačovice – Biskupice (see also the *Geology* section).

Climate

The Bílé Karpaty PLA lies in a moderately wet transition zone between maritime and continental climates. The winds are prevailing westerly in the warmer half-year and easterly in the colder half-year. The climate is largely determined by: altitude, which influences most of the climatic characteristics, particularly the air temperature and precipitation; the SW–NE orientation of the main mountain ridges, i.e. across the prevailing wind currents; high relative segmentation of the relief; and the surface character, particularly the proportion of forest and agricultural areas, which have different effects on the climate.

According to the Czech climatic zoning system (QUITT 1971), most of the Bílé Karpaty PLA may be classified as a moderately warm climatic region (Fig. 5). This is characterized by a short, moderately dry summer (mean monthly temperature in July 16–18°C), moderate spring and autumn, a moderately long (60–100 days) and moderately cold winter (mean monthly temperature in January -2 to -4°C), and total annual precipitation of 600–800 mm. The highest parts of the Bílé Karpaty Mts. (above

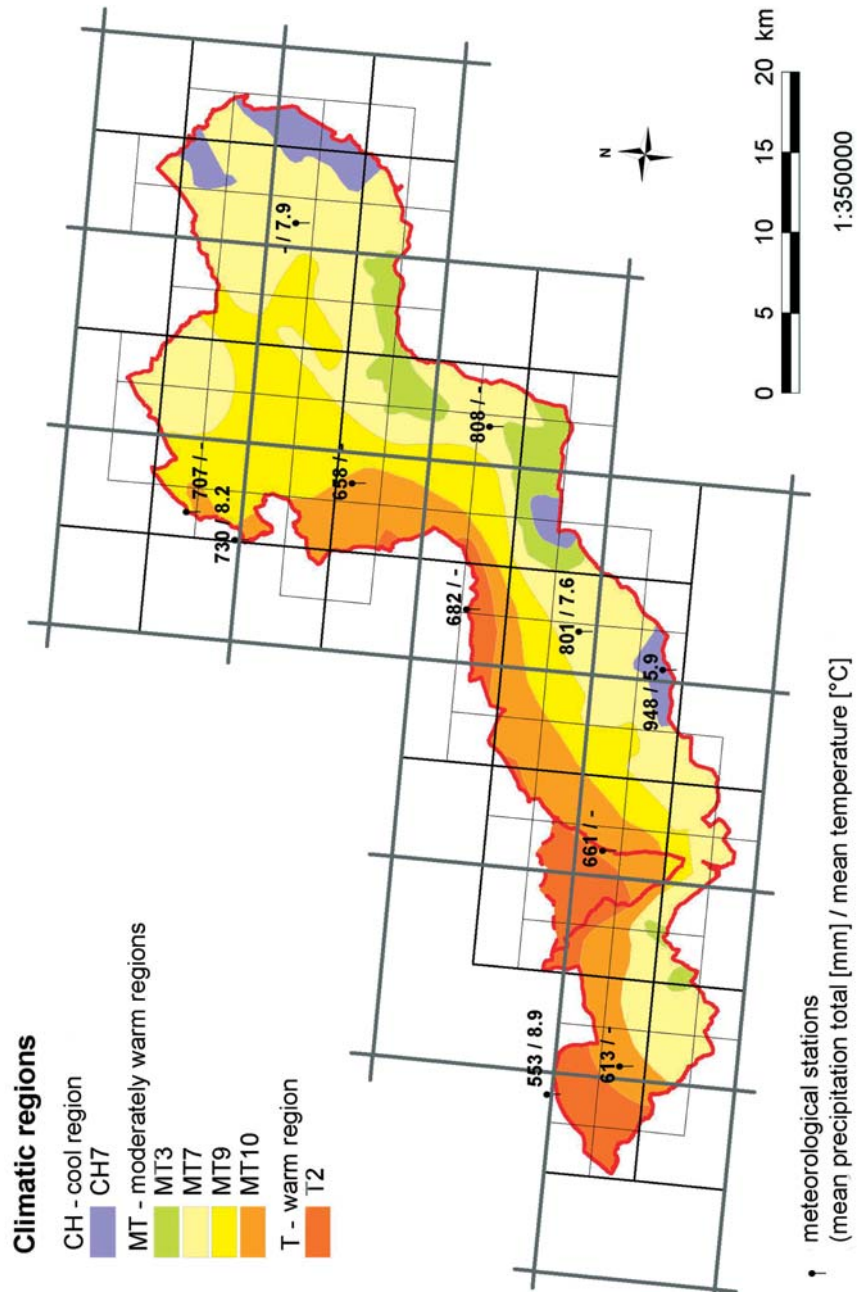


Fig. 5. Climatic zoning of the Bílé Karpaty PLA according to QUITT (1971). Reprinted from JONGEPIER & PECHANEC (2006).

ca. 800 m, i.e. the tops of the Velká Javořina, Lopeník, and Chmel'ovská hornatina Mts.) fall into the cool climatic region category, characterized by a mean temperatures of July 15–16° C, January -3 to -4°C, and total annual precipitation of 850–1000 mm. The western part of the Hlucká pahorkatina Hills and the lower parts of the Velička stream valley both lie in a warm climatic zone, characterized by mean monthly temperatures of July 18–20 °C, January -2 to -3°C and a total annual precipitation of 500–700 mm.

Mean annual temperatures in the Bílé Karpaty PLA reach 9°C at the lowest elevations, 7.6°C in foothills of around 400 m, 6.8°C in hills of around 650 m, and fall below 6°C in the top parts of the mountains.

The majority of the precipitation takes place in summer, mostly in July (there is a secondary maximum in October); minimum precipitation occurs in winter. The first snow usually falls in November, the last at the beginning of April in the warmest parts of the area and at the end of April on the mountain tops. The snow cover lasts, on average, from the second decile of December to the third decile of March at elevations of over 300 m (MACKOVČIN & JATIOVÁ 2002).

Inversion effects and foehn-like winds often bring relatively warmer and drier local weather than might be expected for higher elevations compared with the lower ones (DOSTÁL & PETRŮJOVA 1992a).

Soils

The prevailing soil type in the Bílé Karpaty PLA is cambisol. Mesotrophic cambisols (eventually calcaric regosols – pararendzinas) on calcareous subsoils are characteristic of the south-western part of the area, while oligotrophic cambisols are present on more acid substrates in the highest parts of the main mountain ridge and in the north-eastern part of the area. More rarely, chernozems occur on loess on the south-western edge of the PLA around Strážnice, Sudoměřice, and Radějov. Other relatively frequent soil types distributed as small areas throughout the Bílé Karpaty include fluvisols in stream valleys, gley soils along smaller streams at higher elevations and around springs, and illimerised and gleyzated soils (MACKOVČIN & JATIOVÁ 2002, PECHANEC & JONGEPIEROVÁ 2008). Soils in the Bílé Karpaty PLA are subject to frequent erosion by water and, particularly on arable land in the south-western foothills, by wind as well (ŠVEHLÍK 2002, 2005).

Development in Quaternary and history of human settlement

The current landscape of the Bílé Karpaty PLA was formed in the Quaternary, when cool periods (glacials or ice ages) alternated with much warmer and more humid ones (interglacials). In the glacial periods, the Bílé Karpaty were largely covered with sparse grassland, eventually with the occurrence of dwarf willows (*Salix*) and birch (*Betula*) shrubs. Wind and water erosion was intensive, as was the accumulation of eroded material in the form of loess, loess loams, aeolian sands, and fluvial and slope (deluvial) sediments. The latter are the most widespread Quaternary sediment type in the Bílé Karpaty; in the areas of sandstone bedrock, slope sediments occur as loamy-stony or

stony screes (e.g. in the drainage area of the Hrubý potok brook and on the northern slopes of Velká Javořina Mt.). At the mouths of streams into main valleys, proluvial sediments are deposited in the form of talus cones. Fluvial sediments (gravel and sand-gravel mixtures, floodplain loams) have accumulated in the valleys of larger streams. In contrast, in the interglacials, the area was overgrown with forest and the land surface became stabilized. Interglacials were thus periods in which soils were formed as well as freshwater (spring and brook) limestone – the calcareous tufa deposits. The latter were also largely formed in the warm and humid periods of the post-glacial age, particularly the Atlantic and Epiatlantic (LOŽEK 1992, 2007, 2008; ŽMOLÍK 2008).

The conditions in the Bílé Karpaty Mts. at the end of the last glacial (*ca.* 20,000 years B.C.) and their development in the post-glacial period have been reconstructed from studies of plant macrofossils, molluscs and pollen (LOŽEK 2007, 2008, 2011; HÁJKOVÁ *et al.* 2011). In the earliest Holocene (at the turn of the Preboreal and Boreal periods, *ca.* 9,000 B.C.), species of open landscape dominated, although some woodland species were already present, as documented by, for example, communities of fossil molluscs. The landscape probably had a park-like appearance with many open (treeless) wet places, as well as patches of dry steppic grassland. These early-Holocene communities of open woodland were relatively rapidly replaced in the Atlantic and Epiatlantic periods (*ca.* 6,500–1,400 B.C.) by communities typical of closed, shady forests. The species of open landscape largely disappeared; however, shells of certain heliophilous molluscs (e.g. *Chondrula tridens* and *Granaria frumentum*) found in tufa profiles document the existence of at least small treeless xerothermic patches even in the period of the Holocene climatic optimum. Thanks to these open patches, many species of the late glacial and early-Holocene grassland may have survived in the area until present times. The treeless areas were probably maintained by woodland fires and grazing by large wild ungulates (aurochs, European bison, wild horse) or domestic animals associated with the prehistoric settlement that has been documented in the south-western part of the Bílé Karpaty (in the Hornácko region; LOŽEK 2007, 2011; HÁJKOVÁ *et al.* 2011).

As elsewhere, the nature of the Bílé Karpaty has been strongly influenced and transformed by human activity since the beginning of the Neolithic colonisation in the middle and late Holocene, i.e. after 6,000 B.C. By the Neolithic era, some districts of the Bílé Karpaty, particularly the Vlárský průsmyk Pass were being exploited by people for the raw material to produce stone tools. Neolithic settlement expanded from the fertile lowlands into the foothills and eventually into the lower elevations of the Bílé Karpaty Mts. (e.g. the environs of today's Machová nature reserve) as well, but probably did not touch the forests at the upper elevations until the activity of the Baden culture in the Eneolithic era (3,500 B.C.). However, it was not until Bronze Age settlement that human impact became significant and reached the uppermost areas, which were used for pasture, a pattern repeated later in the Iron Age and Roman times. Such activity resulted in a considerable increase in the biodiversity of the area through the creation of large, open, treeless areas – meadows and pastures at higher elevations and steppic dry grassland in the south-western foothills of the Bílé Karpaty Mts. This facilitated the spread of species-rich grassland flora and fauna from small refuges within the former forests (LOŽEK 2011).

HÁJKOVÁ *et al.* (2011) have recently provided direct evidence for the existence of open, human-influenced habitats before medieval times, based on the analysis of organic sediment dating back to Roman times (*ca.* 300 B.C.–300 A.D.). Even this early, the Bílé Karpaty probably constituted an ancient, cultured landscape with a mosaic of open grasslands, natural forests and fields. This evidence supports the hypothesis of a prehistoric, rather than medieval, origin for the current species-rich grasslands in the Bílé Karpaty Mts. (HÁJKOVÁ *et al.* 2011)

Later, in the Middle Ages (11–13th centuries), pollen data indicates an extensive deforestation of the lower elevations and foothills. More recently (from the 15th century onwards, particularly in the 17th–18th centuries), higher altitudes (up to *ca.* 700 m) were also deforested extensively, a result of Walachian colonization. Only then did the landscape of the Bílé Karpaty adopt an appearance similar that of present times (LOŽEK 2011, HÁJKOVÁ *et al.* 2011). Detailed accounts of the history of human settlement in the Bílé Karpaty Mts. have been provided by KOHOUTEK & NEŠPOROVÁ (1992), VRLA & POZDIŠOVSKÝ (1992), MACKOVČIN & JATIOVÁ (2002), and FUTÁK (2008).

Traditional modes of agriculture and forest management in the Bílé Karpaty Mts. were characterized by intensive but quite small-scale usage of land, supporting the origin of a rich landscape mosaic including habitats in which natural succession was thwarted (species-rich meadows, pastures, forest margins, small fields, orchards, etc.; Fig. 12). The principal changes to this have occurred since the 1950's, when traditional farming techniques steadily gave way to the consequences of historical and socio-economic changes in Czech society. Under communist totalitarian direction, much of the biological and aesthetic diversity of the land was lost to the ploughing of field breaks and grasslands and the consolidation of small fields into disproportionately large ones. Especially in the 1970's, ploughing, soil amelioration (interventions in terms of moisture, fertilization, pH, and soil consistency), and field consolidation spread to previously untouched traditional land structures in even the less easily accessible areas. These changes were associated with changes in farming approaches, particularly the introduction of mechanization and chemical interventions in natural processes. At the other extreme, pieces of grassland that were difficult of access were abandoned to forest succession, partly a consequence of the exodus of people from the countryside to the cities. Changes in forest management practices, e.g. the end of coppicing, the introduction of clear-cutting, and the planting of allochthonous spruce monocultures, also made their marks, particularly in the central and northern parts of the Bílé Karpaty PLA. All this led to progressive biological impoverishment of the area and, since the 1980's, to the necessity that protected areas be established with consistent management targeted upon conservation of biodiversity (GIRGEL *et al.* 1992, HRABEC & KOLAJOVÁ 1992, KUNDRATA 1992, FUTÁK *et al.* 2008, JONGEPIEROVÁ 2008).

Because of the decline of traditional farming in the region in recent years and natural succession processes that have led to the invasion of valuable grassland by dominant grasses and woody plants, the management of the Bílé Karpaty PLA and the Czech Union for Nature Conservation organize maintenance of most valuable or less easily accessible meadows, pastures and spring fens by cutting, grazing and scrub removal (JONGEPIEROVÁ *et al.* 2008a). Other important activities currently include restoration of grassland on

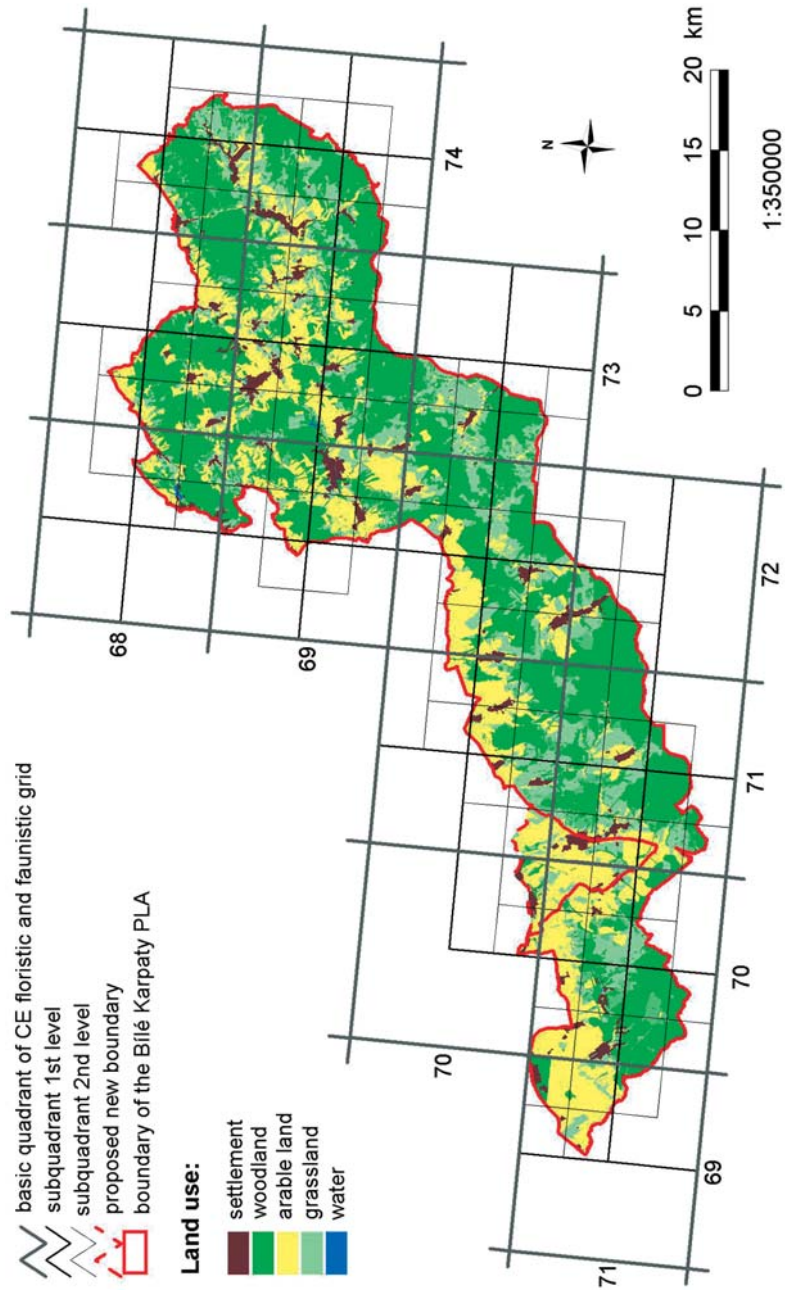


Fig. 6. Current land use in the Bílé Karpaty PLA (reprinted from JONGEPIER & PECHANEC 2006).

arable land (mostly former grassland that was ploughed in socialist times; since 1990's *ca.* 8,000 ha of grassland have been restored, including 480 ha resown with a species-rich regional seed mixture; see e.g. JONGEPIEROVÁ *et al.* 2008b and JONGEPIEROVÁ & FAJMON 2008). Since 1996 these activities are partly financed from the Landscape Care Programme of the Czech Ministry of Environment which, however, does not have enough resources to cover the costs of the management of all valuable sites in the Bílé Karpaty PLA. Large areas are thus managed due to a financial support within agro-environmental programmes of the Czech Ministry of Agriculture to local farmers and farming companies. Unfortunately, the agro-environmental schemes are not flexible e.g. in terms of methods and dates of cutting and often do not meet the requirements of biodiversity conservation (particularly, the strict rules of the agro-environmental schemes exclude mowing in patches and impose cutting of ungrazed patches left by cattle or sheep in pastures; the resulting homogeneity of the management may even lead to extinctions of local populations of endangered invertebrates and plants; JONGEPIEROVÁ *et al.* 2008a, KONVIČKA *et al.* 2008).

At present, 49% of the Bílé Karpaty PLA is covered with forest (of which 54% is broad-leaved and 30% spruce plantations) while 16% is used as arable land. Grasslands (meadows and pastures) make up 27%; the most extensive compact areas of grassland occur in the south-western part of the Bílé Karpaty, between the villages of Radějov and Strání (Fig. 6). Other typical elements of the Bílé Karpaty landscape include scrub (0.8%), which occurs at forest margins or in abandoned grassland, and orchards and gardens, scattered around villages and hamlets (5%). The built up area of villages and towns takes up 2% (data from ZABAGED model, Agency for Nature Conservation and Landscape Protection of the Czech Republic and Czech Office for Surveying, Mapping and Cadastre, 2007).

Nature conservation

The Bílé Karpaty PLA is currently divided into four zones reflecting the natural values of its individual constituent parts: Zone 1 (the core zone) includes the best preserved forests and grasslands with several extra restrictions on land use (16% of the Bílé Karpaty PLA); Zone 2 covers less well-preserved but continuous woodland and quite species-rich grasslands (26%); Zone 3 is a buffer zone with a mosaic of meadows, pastures, fields, and forests (30%); Zone 4 makes up a transition zone with arable land and built up area without additional restrictions (28%).

The most precious segments of the Zone 1 were declared as 51 small-scale, specially protected areas (Fig. 7). Five of them are classified as national nature reserves (NNR), one as a national nature monument (NNM), 15 as nature reserves (NR) and 30 as nature monuments (NM); all of these categories are derived from the Czech system of legally protected areas (Act No. 114/1992 coll.). The area of all the small-scale protected areas totals 1,375 ha (1.84% of the area of the Bílé Karpaty PLA): 554 ha is covered with forest, small woods, and scattered trees and shrubs; 803 ha is made up of grasslands (meadows and pastures); 17 ha is occupied by orchards and gardens; and 1 ha by streams and bodies of water.

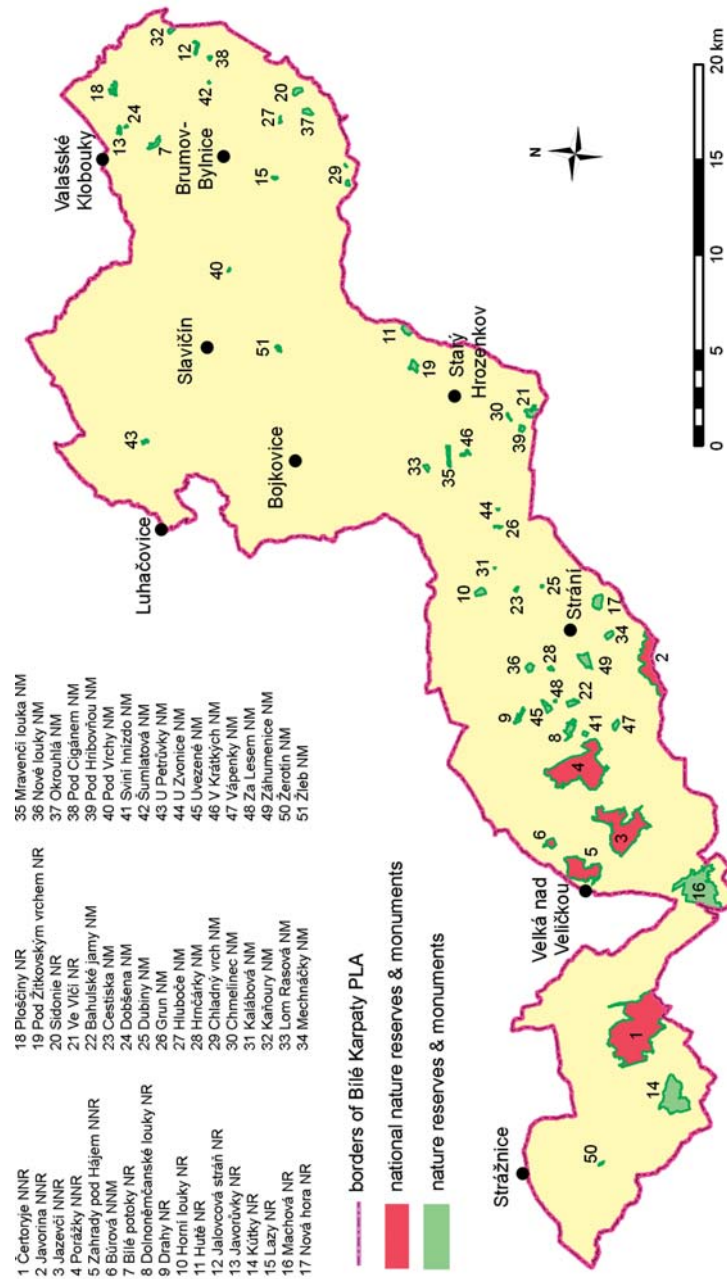


Fig. 7. Small-scale protected areas in the Bílé Karpaty PLA (source of GIS data: Agency for Nature Conservation and Landscape Protection of the Czech Republic, 2010). Abbreviations: NNR – national nature reserve, NNM – national nature monument, NR – nature reserve, NM – nature monument.

Several additional nature reserves and nature monuments are situated close to the administrative boundaries of the Bílé Karpaty PLA, but beyond them. In similar fashion to the sites above, they mostly protect remnants of thermophilous dry grassland (e.g. Hloží NR near Louka, Nad Vápenkou NM near Javorník, Babí hora NM and Kobylí hlava NM near Hluk, Nádavky NM near Boršice), fragments of well-preserved forests (Háj u Lipova NM near Lipov, Háj u Louky NR near Louka) and sites of particular geological interest (Skalky NM near Bánov).

General information on the abiotic conditions, flora and fauna of the individual small-scale protected areas within the Bílé Karpaty PLA and in its neighbourhood is provided by MACKOVČIN & JATIOVÁ (2002) and MACKOVČIN *et al.* (2007).

A large part of the Bílé Karpaty PLA is also protected within the Natura 2000 framework – altogether 16 localities (entirely or partly situated in the Bílé Karpaty PLA) with a total area of *ca.* 21,000 ha were declared as Sites of Community Importance under the European Commission Directive on the conservation of natural habitats and of wild fauna and flora (92/43/EEC; see AOPK ČR 2006 for details).

Flora and vegetation

The flora of the Bílé Karpaty PLA is known to include 1,434 species of vascular plants (excluding cultivated crops and ornamental species that do not spread spontaneously in the wild; JONGEPIER & JONGEPIEROVÁ 2006). The distribution data for most of the individual plant species are summarized in JONGEPIER & PECHANEC (2006).

According to the typological phytogeographical division of the Czech Republic (SKALICKÝ 1988), the Bílé Karpaty PLA falls largely into two phytogeographical districts: the Bílé Karpaty stepní district [Steppic White Carpathians] which is part of the Pannonian thermophyticum province and the Bílé Karpaty lesní district [Forested White Carpathians] which is part of the Carpathian mesophyticum province. Some northern margins of the Bílé Karpaty PLA are part of the Zlínské vrchy [Zlín Hills] phytogeographical district (north-west, Luhačovice environs) and the Javorníky district (north-east, Valašské Klobouky environs, where the fir *Abies alba* occurs, absent from the rest of the Bílé Karpaty Mts.); the flora of these marginal parts is, however, not very specific and resembles that of the Forested White Carpathian district. A minor area at the south-western boundary of the Bílé Karpaty PLA (Strážnice environs) is part of the Jihomoravské úvaly district [South Moravian lowland valleys] but has been largely transformed into arable land and lacks typical flora (GRULICH 2008).

The Steppic and Forested White Carpathian districts differ mainly in the prevailing types of potential (forest) vegetation. In the Steppic White Carpathians (a smaller, south-western part of the Bílé Karpaty PLA), the natural forest types include a mosaic of central European basiphilous, thermophilous oak forests (*Potentillo albae-Quercetum*), Carpathian oak-hornbeam forests (*Carici pilosae-Carpinetum*; Fig. 8), and Pannonian oak-hornbeam forests (*Primulo veris-Carpinetum*). The latter type is currently preserved only in fragments in the environs of Radějov and Tvarožná Lhota. Very locally, Peri-Alpidic basiphilous thermophilous oak forests with *Quercus pubescens* (*Corno-*

Quercetum) were also present but now also survive only as fragments (e.g. in Žerotín NM near Radějov). The present landscape of the Steppic White Carpathians is largely deforested and transformed into arable land. Preserved grassland habitats are notable for their very high species-richness and the occurrence of many thermophilous species (in contrast with the Forested White Carpathians).

In the Forested White Carpathians (the largest, central part of the Bílé Karpaty PLA), thermophilous oak forests are absent. The prevailing forest type at lower elevations is Carpathian oak-hornbeam forest (*Carici pilosae-Carpinetum*), often with beech (*Fagus sylvatica*). At higher elevations, various types of herb-rich beech forests (*Fagion*) dominate (Fig. 9), particularly the *Carici pilosae-Fagetum* association with dominant *Carex pilosa* in the herb layer; mountain beech forests of the *Dentario enneaphylli-Fagetum* association with *Dentaria enneaphyllos*, *Corydalis cava*, *Galanthus nivalis*, various ferns, etc., in the undergrowth survive only at the highest elevations (e.g. Javorina NNR). Locally, acidophilous beech forests (*Luzulo-Fagetum*) with *Luzula pilosa*, *L. luzuloides* and *Vaccinium myrtillus* occur on calcium-poor sites (e.g. in the Moravské Kopanice region and in the environs of Valašské Klobouky), probably as a result of former raking of litter. Ravine forests (*Lunario-Aceretum*) are confined to steep slopes at the highest elevations (particularly the Velká Javořina Mt.); they are characterised by sycamore (*Acer pseudoplatanus*) and ash (*Fraxinus excelsior*) in the tree layer and e.g. *Lunaria rediviva* and *Cicerbita alpina* in the herb layer. Grasslands on deforested sites in the Forested White Carpathian district lack extremely thermophilous species and locally host some acidophilous or even montane types, e.g. with *Nardus stricta* (in contrast to the Steppic White Carpathians; JONGEPIEROVÁ & GRULICH 1992, MACKOVČIN & JATIOVÁ 2002, GRULICH 2008, CHYTRÝ *et al.* 2010).

The most characteristic type of non-forest vegetation throughout the Bílé Karpaty PLA is a species-rich grassland with the common occurrence of orchids and a remarkably high floristic alpha-diversity (Fig. 11). Some well-preserved patches of grasslands in the White Carpathians are composed of up to 75 species of vascular plants on 1 m² or 99 species on 4 m² – this is approximately 25% more than in any vegetation type elsewhere in the Czech Republic and one of the highest numbers recorded by botanists in all of Europe (KLIMEŠ 2008). Extensive areas of species-rich grasslands still exist on deep and heavy soils on calcareous flysch sediments, particularly in the south-western part of the Bílé Karpaty PLA (between Radějov and Strání; Figs 10, 11), while smaller areas have also been preserved in other parts of the region. In the phytosociological system of the vegetation of the Czech Republic (CHYTRÝ 2007), the typical White Carpathian species-rich semi-dry grasslands are classified as the *Brachypodio pinnati-Molinietum arundinaceae* association within the *Bromion erecti* alliance comprising broad-leaved dry grassland communities. They are co-dominated by *Brachypodium pinnatum*, *Bromus erectus*, *Carex montana* and *Molinia arundinacea* and composed of many other species of meadows, dry grasslands, open forests and forest fringes, including those of intermittently wet soils (e.g. *Betonica officinalis*, *Galium boreale*, *Inula salicina*, *Potentilla alba*, *Sanguisorba officinalis* and *Serratula tinctoria*). Traditionally the grass has been cut for hay once a year, usually in summer, and occasionally grazed as well

(CHYTRÝ 2007, ŠKODOVÁ *et al.* 2008). In wetter places, the semi-dry grasslands gradually merge into intermittently wet *Molinia* meadows (*Molinion*). The grasslands in the south-western part of the Bílé Karpaty are also characterized by the presence of numerous scattered, solitary trees (usually oaks, *Quercus petraea* and *Qu. robur*, and linden/lime, *Tilia* spp.) and shrubs (e.g. hawthorn, *Crataegus* spp.). In the neighbourhood of this scattered woody vegetation and along forest margins, mesic herbaceous fringes (*Trifolion medii*) are often well-developed, while dry herbaceous fringes (*Geranion sanguinei*) with *Geranium sanguineum* and *Lithospermum purpureocaeruleum* are much rarer and restricted to the warmest south-western parts of the area. At the higher elevations of the central and north-eastern parts of the Bílé Karpaty PLA, the grasslands are situated on shallower soils on a more acid flysch bedrock and, in addition to mowing for hay, were commonly used for grazing (Fig. 13). These oligotrophic meadows and pastures (classified as the *Anthoxantho odorati-Agrostietum tenuis* association within the *Cynosurion* alliance or as *Violion caninae*, cf. CHYTRÝ 2007, ŠKODOVÁ *et al.* 2008, MLÁDEK 2008) are slightly less species-rich than the meadows in the south-west; however, they also have a great conservation value and include a number of relatively thermophilous plant species.

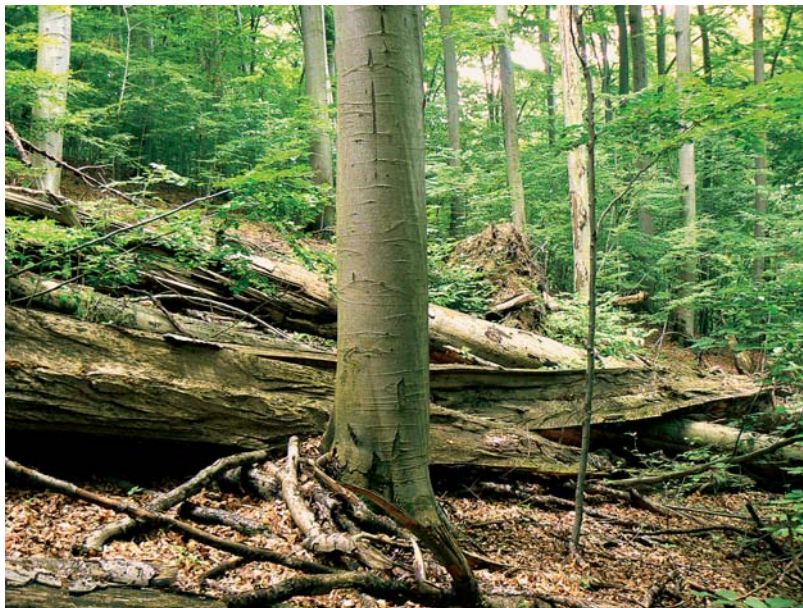
Numerous wetlands are also highly characteristic elements of the grassland habitats in the Bílé Karpaty. Their vegetation varies, depending on the dynamics of the water regime and the chemical composition of the ground water (HÁJEK 1998, CHYTRÝ 2011). Along brooks, wet *Cirsium* meadows (*Calthion* alliance, often with *Cirsium rivulare* as one of the dominant plants) are commonly developed on sites traditionally managed by mowing; when mowing ceases, they usually change into basiphilous, eutrophic wet grassland dominated by *Juncus inflexus* and *Mentha longifolia* or into wet tall-forb meadows dominated by *Filipendula ulmaria* (ŠKODOVÁ *et al.* 2008). Around slope springs with strongly basic water and tufa formation, the small-scale vegetation of calcareous spring fens (*Caricion davallianae* alliance, mostly the *Carici flavae-Cratoneuretum filicini* association) is present, dominated by *Eriophorum angustifolium*, *E. latifolium*, low sedges (*Carex panicea*, *C. flava*, *C. flacca*, etc.) and mosses (eventually with assemblages of submerged macrophytic algae, *Chara* spp., in pools), including a high number of endangered species (HÁJEK *et al.* 2005, ŠKODOVÁ *et al.* 2008; Fig. 14).

The Bílé Karpaty PLA is also a noteworthy area for weed vegetation. Despite the intensification of agriculture in the second half of the 20th century, the small fields that still occur in the neighbourhood of villages and hamlets, cultivated by individual families by hand or by light machinery and without using pesticides, have become refuges for many species of weeds and their communities, formerly widespread but now nearly extinct elsewhere in the Czech Republic (OTÝPKOVÁ 2001, CHYTRÝ 2009). Similarly, old gardens and small orchards often scattered across the landscape are a remarkable source of evanescent regional varieties of fruit trees (TETERA 2006). Their grassy undergrowth often has the character of mesic unfertilized meadows (e.g. *Arrhenatherion* or *Bromion*) which may also be valuable as refuges for endangered species (MACKOVČIN & JATIOVÁ 2002, ŠKODOVÁ *et al.* 2008).



8

Fig. 8. A Carpathian oak-hornbeam forest typical of south-western part of the Bílé Karpaty PLA (north-western slope of the Jasenová Hill near Blatnička; photo by K. Fajmon).



9

Fig. 9. Beech forests are dominant among the natural forest types in the central and north-eastern parts of the Bílé Karpaty PLA (Sidonie nature reserve in the Vlárský průsmyk Pass; photo by O. Konvička).



10

Fig. 10. A landscape typical of south-western part of the Bílé Karpaty PLA: gentle slopes covered with extensive meadows and scattered, solitary trees and shrubs (Čertoryje national nature reserve near Kněždub; photo by O. Konvička).



11

Fig. 11. The semi-dry grassland vegetation in the south-western part of the Bílé Karpaty PLA is extremely rich in plant species (Jazevčí national nature reserve near Javorník; photo by J. W. Jongepier).



12

Fig. 12. A landscape in the central part of the Bílé Karpaty PLA with scattered hamlets and a mosaic of meadows, pastures, orchards, small fields and woods (the Moravské Kopenice region, Vyškovec, part Bošachy; photo by O. Konvička).



13

Fig. 13. Grasslands in the north-eastern part of the Bílé Karpaty PLA have often been used as sheep pastures (Jalovcová stráň nature reserve near Nedašov with solitary juniper bushes; photo by O. Konvička).



14

Fig. 14. A vegetation of calcareous spring fens frequently occurs on small areas around springs on slopes, being a characteristic element of the grasslands in the Bílé Karpaty PLA and a refuge for many endangered species of plants and invertebrates (Jalovcová stráň nature reserve near Nedašov; photo by O. Konvička).



15

Fig. 15. The north-eastern part of the Bílé Karpaty PLA is drained by the Vlára river (the Vlárský průsmyk Pass near the state border; photo by O. Konvička).

Fauna

The fauna of the Bílé Karpaty PLA is less well-known than the flora. Nevertheless, judging by the relatively better-explored groups at least, it is also outstandingly rich. This may arise out of its favourable geographical situation: the Bílé Karpaty mountains lie close to the boundaries of the Northern-Pannonian, Western-Carpathian, and Hercynian biogeographical subprovinces (CULEK 1996), and thus are in an ideal position for species of various biogeographical origins. Because of the connection of the area to both the outskirts of the warm Pannonian lowlands (the Lower Morava river valley in the west and the broad valley of the River Váh in the east) and the Carpathian mountain system (the Javorníky and Moravsko-Slezské Beskydy Mts. in the north-east), many thermophilous and montane species may be found here in quite close proximity or, in some cases, even co-existing within the same habitats.

Montane species with largely boreal distributions in northern Eurasia include e.g. meadow pipit (*Anthus pratensis*), ring ouzel (*Turdus torquatus*), spotted nutcracker (*Nucifraga caryocatactes*), white-backed woodpecker (*Dendrocopos leucotos*), lynx (*Lynx lynx*), common lizard (*Zootoca vivipara*), moths *Photodes captiuncula*, *Xestia collina*, *Eurois occulta* (all Noctuidae), *Perizoma minoratum* (Geometridae), and *Odontosia sieversii* (Notodontidae) and the snails *Vertigo substriata* and *Discus ruderatus* etc. Central-European montane species, distributed e.g. in the Alps and Carpathians are represented, for example, by Alpine shrew (*Sorex alpinus*), Rosalia longicorn (*Rosalia alpina*), bush-cricket *Polysarcus denticauda*, centipedes *Lithobius nodulipes* and *L. piceus*, and spider *Kaestneria torrentum* (Linyphiidae). Many of these montane species are confined to the highest altitudes of the Bílé Karpaty Mts. (e.g. the main ridge that includes the Velká Javořina Mt.) or occur in the cooler north-eastern part of the Bílé Karpaty (LAŠTŮVKA *et al.* 2008).

Some species are endemic to the Carpathians, and well-documented, e.g. for snails (Gastropoda): *Bielzia coeruleans*, *Vestia turgida*, *Macrogastera tumida*, *Vitrea transsylvanica*, *Plicuteria lubomirskii*, *Monachoides vicinus*, and *Faustina faustina*; ground-beetles (Coleoptera: Carabidae): *Carabus obsoletus*, *C. auronitens escheri*, *Pterostichus foveolatus*, *P. pilosus*, and *Abax schueppeli rendschmidtii*; weevils (Coleoptera: Curculionidae): *Donus intermedius*, *D. viennensis*, *Otiorynchus bisulcatus*, and *O. multipunctatus*; and the grasshopper (Orthoptera: Acridiidae) *Pseudopodisma nagy* (LAŠTŮVKA *et al.* 2008, BENEDIKT *et al.* 2010, DVOŘÁKOVÁ *et al.* 2011). The subterranean fresh-water snail *Alzoniella slovenica* is known only from north-western Slovakia and the White Carpathians (BERAN & HORSÁK 2001).

On the other hand, many species of open treeless habitats, mostly xerothermophilous elements of Pannonian, southern-European, Pontic or southern-Siberian origin, occur in grassland habitats, especially in the south-western part of the Bílé Karpaty PLA. They include e.g. certain snails (*Oxychilus inopinatus* and *Granaria frumentum*), spiders (e.g. *Metopobacterus ascitus*, *Marpissa nivoyi* and *Synageles subcingulatus*), harvestmen (*Egaenus convexus* and *Zachaeus crista*), millipedes (*Unciger transsylvanicus*), as well as various insects, e.g. butterflies and moths (e.g. *Brenthis hecate*, *Zerynthia polyxena*, *Valeria oleagina*, *Cleoceris scoriacea*, *Perigrapha*

i-cinctum, *Isturgia roraria*, and *Tebenna chingana*), bees (*Anthidium septemspinosum*), beetles (*Carabus scabriusculus*, *Pterostichus incommodus*, *Syntomus obscuroguttatus*, *Anthaxia hungarica*, *Cryptocephalus gridellii*, *Hypera striata*, *Liparus dirus*, *Pseudocleonus grammicus*, *Tychius sharpi*, and *Lixus vilis*), bush-crickets (*Poecilimon intermedius*), true bugs (e.g. *Brachycoleus decolor*, *Catoplatus horvathi* and *Odontotarsus purpureolineatus*), etc. (LAŠTŮVKA *et al.* 2008, BENEDIKT *et al.* 2010). Many other less demanding thermophilous insect species are distributed along the whole ridge of the Bílé Karpaty Mts. (or most of it) and reach, for example, into the environs of Brumov-Bylnice, Valašské Klobouky and Nedašov, a result of the SE-NW orientation of the ridge and its being cut by valleys opening into the warm lowland of the River Váh in Slovakia in the north (see the *Hydrology* section), both factors favourable to the spread of thermophilous species. Relict species of open treeless habitats may also be found in wetlands, particularly spring fens, e.g. the snail *Vertigo moulinsiana* with an Atlantic-Mediterranean distribution (HORSÁK 2008).

Certain changes in the fauna of the Bílé Karpaty PLA have been observed recently. Some species have declined or become extinct, mostly as a result of changes in land use, particularly grassland and forest management. This is most well-documented for the butterflies, of which the knapweed fritillary (*Melitaea phoebe*), scarce fritillary (*Euphydryas maturna*) and woodland brown (*Lopinga achine*) disappeared in the 1990's and the Danube clouded yellow (*Colias myrmidone*) in the 2000's (HORAL *et al.* 2006, KONVIČKA *et al.* 2008; see also GOTTWALD & BĚLÍN 2001 and LAŠTŮVKA *et al.* 2008 for data on other extinct or declining species). On the other hand, a number of species are new to the area or have expanded from the south: e.g. the eastern pale clouded yellow (*Colias erate*) and marbled fritillary (*Brenthis daphne*), the moths *Diachrysia zosimi* and *Cucullia fraudatrix*, the praying mantis (*Mantis religiosa*), the seed bug *Oxycarenus pallens*, and the wasp spider (*Argiope bruennichi*) among the most conspicuous of them. The most recent additions also include alien invasive species, often of non-European origin, such as the buffalo treehopper (*Stictocephala bisonia*) and the western conifer seed bug (*Leptoglossus occidentalis*) (LAŠTŮVKA *et al.* 2008, KMENT & BAŇAŘ 2011).

Method of mapping of the flora and fauna of the Bílé Karpaty PLA

In the Czech Republic, the faunistic and floristic grid mapping system of central Europe (EHRENDORFER & HAMANN 1965) is widely used for mapping flora and fauna, including insects (ZELENÝ 1962, PRUNER & MÍKA 1996). This system was also adopted for previous mapping projects in the Bílé Karpaty PLA (JONGEPIER & PECHANEC 2006, HORAL *et al.* 2006), who used a finer variant in which each basic field (quadrant) of 10' longitude × 6' latitude (*ca.* 12.4×11.2 km) was divided into 4×4 smaller subfields (subquadrants, *ca.* 3.1×2.8 km). The Bílé Karpaty PLA includes 127 such subfields. The same grid system, with each basic field divided into 16 subfields, is also used in the papers throughout this journal with only slight modification to the coding of the subdivisions – primary subdivisions of the basic field are coded by letters (this follows the fashion more widely used in entomology and proposed e.g. by PRUNER & MÍKA 1996),

and secondary subdivisions are coded by numbers. In this way, for example, the basic field denoted in the central European grid system by the code 7072 may be divided into four primary subfields coded as 7072a, 7072b, 7072c and 7072d, each of which may be further divided into four secondary subfields, e.g. 7072a1, 7072a2, 7072a3, 7072a4, etc. (Fig. 2).

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Souhrn

Přírodní podmínky Chráněné krajinné oblasti a biosférické rezervace Bílé Karpaty.

Tento článek shrnuje základní údaje o geologii, geomorfologii, hydrologii, klimatu, půdách, historii krajiny v době poledové, ochraně přírody, flóře, vegetaci a fauně v Chráněné krajinné oblasti a Biosférické rezervaci Bílé Karpaty na jihovýchodní Moravě. Tyto obecné informace mají doprovodit příspěvky věnované fauně jednotlivých skupin hmyzu Bílých Karpat, které jsou zahrnuty do tohoto čísla časopisu.

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Stoneflies (Plecoptera) of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic)

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BOJKOVÁ J., CHVOJKA P. & KOMZÁK P. 2012: Stoneflies (Plecoptera) of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic). In: MALENOVSKÝ I., KMENT P. & KONVIČKA O. (eds.): Species inventories of selected insect groups in the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic). *Acta Musei Moraviae, Scientiae biologicae* (Brno) **96(2)** (2011): 37–70. – In the course of a faunistic survey in the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (south-eastern Moravia, Czech Republic), a total of 37 species of Plecoptera (37% of the fauna of the Czech Republic) from 12 genera and seven families were recorded. Seven species are classified in the Red List of threatened invertebrates of the Czech Republic, in the categories “endangered” (*Isoperla sudetica* (Kolenati, 1859), *I. tripartita* Illies, 1954, *Perlodes dispar* (Rambur, 1842), and *Perla marginata* (Panzer, 1799)) and “vulnerable” (*Perla abdominalis* Burmeister, 1839, *Amphinemura standfussi* (Ris, 1902) and *Nemoura sciurus* Aubert, 1949). The occurrences of the eastern Mediterranean species *Isoperla tripartita*, which reaches the north-western limit of its distribution in the Czech Republic and is widespread and frequent in the Bílé Karpaty PLA, and the central European species *Nemoura sciurus*, infrequent in the Czech Republic but common in the area investigated, are especially noteworthy. Other remarkable records include four species with a Carpathian, Balkan-Carpathian or Carpathian-Anatolian distribution (*Nemoura carpathica* Illies, 1963, *N. fusca* Kis, 1963, *Protonemura aestiva* Kis, 1965, and *Leuctra quadrimaculata* Kis, 1963) which are rare in the Czech Republic. Three species (*Perlodes dispar* (Rambur, 1842), *Perla marginata* (Panzer, 1799) and *Leuctra major* Brinck, 1949) found in the Bílé Karpaty PLA in 1958 have not been re-collected in recent years at the sites of their earlier occurrence. These species are sensitive to pollution and stream morphology degradation and these impacts may have led to their disappearance from the area. The highest species richness of stoneflies was found in springs and brooks in the mountainous part of the PLA. The majority of species recorded occur in these biotopes.

Key words. Plecoptera, faunistics, biogeography, species conservation, aquatic habitats, White Carpathians, Moravia, Czech Republic

Introduction

The order Plecoptera (stoneflies) consists of a relatively small group of aquatic insects largely inhabiting running water habitats. Stoneflies are ecologically significant in freshwater ecosystems, as they live predominantly in undisturbed habitats with natural temperature, oxygen conditions and water quality. In the Czech Republic, RAUŠER (1977) listed 90 species of stoneflies: 81 in Bohemia and 75 in Moravia. Since 1977, the number of species arose in the light of taxonomic changes (see BOJKOVÁ 2009 for details) and new records (ŠPAČEK *et al.* 1999, BOJKOVÁ & ŠPAČEK 2006, BOJKOVÁ *et al.* 2010, KROČA

2010); there are currently 100 species recorded from the Czech Republic (87 species in Bohemia and 78 species in Moravia).

Until recently, knowledge of the Plecoptera of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (abbreviated to Bílé Karpaty PLA hereafter) situated in the south-eastern part of the Czech Republic (see KUČA *et al.* 1992, MACKOVČIN & JATTOVÁ 2002, JONGEPIEROVÁ 2008, and KONVIČKA *et al.* 2012 for detailed characteristics of the natural history of the area) has been only fragmentary. The only historical data come from the 1950s, when detailed faunistic research into Czechoslovak Ephemeroptera, Plecoptera and Trichoptera was carried out by the Institute of Entomology of the former Czechoslovak Academy of Sciences and the Faculty of Sciences of the Jan Evangelista Purkyně University, Brno (see LANDA & SOLDÁN 1989, SOLDÁN *et al.* 1998, and BOJKOVÁ 2009). Ten streams in the area of what is now the Bílé Karpaty PLA and its close vicinity were investigated in 1958 (the Klanečnice stream in the village of Strání-Květná, the Kuželovský potok brook near the village of Tasov, the Luhačovický potok brook near the village of Dolní Lhota, the Mlýnský potok brook below the village of Nivnice, the Okluky stream below the village of Horní Němčí, the Olšava stream above the village of Pitín, the Radějovka stream above the village of Radějov, the Smolinka stream above the village of Mirošov, the Velička stream above the village of Louka, and the Vlára river below the town of Brumov-Bylnice). Stoneflies were found at five of these ten sites. Altogether 16 species were recorded: *Perlodes dispar*, *Isoperla grammatica*, *Perla marginata*, *Siphonoperla torrentium*, *Brachyptera risi*, *Amphinemura standfussi*, *Nemoura cinerea*, *N. flexuosa*, *Protonemura praecox*, *Leuctra albida*, *L. digitata*, *L. hippopus*, *L. fusca*, *L. major*, and *L. prima*. These data were used in RAUŠER (1963, 1965), but details of the records were not specified. The material was, however, almost completely preserved in the Jaroslav Raušer collection, which has been recently revised (see BOJKOVÁ 2009 for details and the faunistic data below). JURAJDA *et al.* (2000) found additional two species, *Perlodes microcephalus* and *Capnia bifrons*, in the Drietomica river basin. BOJKOVÁ & ŠPAČEK (2006) recorded six stonefly species from the Bílé Karpaty PLA as new or interesting for the Czech fauna: *Isoperla goertzi*, *I. tripartita*, *Nemoura carpathica*, *N. fusca*, *Protonemura aestiva*, and *Leuctra quadrimaculata*. The first of these species, *I. goertzi*, was, however, misidentified. Based on the penial armature and egg chorionic structure, the material was later re-identified as *I. sudetica*. However, the taxonomy of this species is complicated and further taxonomic changes cannot be ruled out. JURAJDA *et al.* (2007) conducted a detailed investigation on fish and the macro-invertebrates of streams in the Vlára river basin. Although the Plecoptera were mentioned as present in the area, the authors gave no species list. Plecoptera taxocoenoses of spring fens in the Moravian-Slovak borderland were studied by BOJKOVÁ & HELEŠIC (2009), including seven calcareous fens in the Bílé Karpaty PLA, but no detailed species list was given for these sites.

The published information on stoneflies is more complete for the Slovak part of the White Carpathian Mts. ŠPORKA *et al.* (1998) studied the macro-invertebrates of the Drietomica stream and found three stonefly species. Stoneflies of the Myjava river basin were studied by KRNO (1994), who reported 26 species in total. A detailed investigation

into the stoneflies of the Biele Karpaty Mts. was conducted by KRNO & HORNIÁK (2007) in 1991–2006. They recorded 32 species at 33 sites in six main river basins. Altogether, 37 Plecoptera species have been recorded in the Slovak part of the White Carpathian Mts. to date.

Material and methods

Imagines of stoneflies were collected by sweeping and in Malaise traps. The Malaise traps were exposed during the whole vegetation season and emptied every three weeks. The material was preserved in 70% ethanol and is currently deposited in two collections: that of the Department of Entomology, National Museum, Prague (NMPC) and the Jindřiška Bojková collection at the Department of Botany and Zoology, Faculty of Sciences, Masaryk University, Brno (JBBC). The historical material collected in the Bílé Karpaty PLA by Jaroslav Raušer is deposited in the Jaroslav Raušer collection at the Department of Botany and Zoology, Brno, Czech Republic (JRBC). All material examined was identified by J. Bojková. The classification and nomenclature of Plecoptera adopted in this paper follow GRAF *et al.* (2002). Conservation status for individual species is given according to the Red List of threatened invertebrates of the Czech Republic (HELEŠIČ *et al.* 2005). Distribution and ecological requirements largely follow ILLIES (1978), ZHILTZOVA (2003), GRAF *et al.* (2009), and TESLENKO & ZHILTZOVA (2009), or the source is given in the respective text.

The following abbreviations are used: NM – Nature Monument, NNR – National Nature Reserve, NR – Nature Reserve, PLA – Protected Landscape Area (all of these are the various categories and terms specified by the Czech system of legally protected natural areas); MT – Malaise trap; RT – right tributary, LT – left tributary; EN – endangered species, VU – vulnerable species (both the latter are specified categories defined in the Red List of threatened invertebrates of the Czech Republic, *cf.* HELEŠIČ *et al.* 2005); L – larva.

List of collecting sites

Altogether 326 sites, which cover all the main watercourses and aquatic habitats in the area, were surveyed for Plecoptera and Trichoptera in 2004–2010. A complete list of the sites is given by KOMZÁK & CHVOJKA (2012). Stoneflies were found at 169 (52%) of these sites, as listed below. The numbering of the sites follows KOMZÁK & CHVOJKA (2012) and is arranged according to the main drainage basins; sites within individual partial basins are ordered from the source downstream according to their altitude, tributaries are listed successively in the order in which they join the main stream. Each entry is arranged as follows: number of site in KOMZÁK & CHVOJKA (2012), name and position of collecting site, name of cadastral unit and code of field (in parentheses) in the faunistic and floristic grid mapping system of central Europe (EHRENDORFER & HAMANN 1965, PRUNER & MÍKA 1996; each basic field divided into 16 subfields, *cf.* KONVIČKA *et al.* 2012), and altitude.

Morava river basin – left tributaries

Olšava stream

8. Olšava stream above Pitín, Pitín (6973c1), 350–380 m a.s.l.
10. Kolelač stream above Bojkovice reservoir, Pitín (6973a3), 335 m a.s.l.
12. Bojkovice reservoir near inflow of Kolelač stream, Rudimov (6973a3), 320 m a.s.l.
13. Kolelač stream below Bojkovice reservoir, Bojkovice (6973c1), 295 m a.s.l.
16. Koménka stream above Komňa, Komňa (7072b2), 375 m a.s.l.
19. Koménka stream above Bojkovice, Bojkovice (6972d2), 275 m a.s.l.
22. Kladenka stream S Petrůvka, Petrůvka u Slavičina (6972b2), 390 m a.s.l.
23. Třešňůvka brook below Rudimov, Bojkovice (6972b4), 310 m a.s.l.
26. Kladenka stream NW Záhorovice, Záhorovice (6972d1), 245 m a.s.l.
27. Luhačovický potok stream below Slopné, Slopné (6873a3), 325 m a.s.l.
29. left tributary of Luhačovický potok stream S Slopné, Slopné (6873c1), 330 m a.s.l.
30. left tributary of Petrůvka brook, spring areas below U Petrůvky NM, Petrůvka u Slavičina (6872d4), 400 m a.s.l.
33. Luhačovický potok stream below Dolní Lhota, Dolní Lhota u Luhačovic (6872d2), 285 m a.s.l.
34. Gáborka brook, spring areas S Obětová hill, Kladná-Žilín (6872d3), 390–420 m a.s.l.
35. Gáborka brook above confluence with Luhačovický potok stream, Luhačovice (6872d3), 280 m a.s.l.
37. Nivnička stream, spring area, Bystřice pod Lopeníkem (7072b3), 580 m a.s.l.
38. Nivnička stream SE Bystřice pod Lopeníkem, Bystřice pod Lopeníkem (7072b3), 480 m a.s.l.
39. Pivný potok brook, spring brooks SW Nový Dvůr, Bystřice pod Lopeníkem (7072b4), 550–560 m a.s.l.
41. Pivný potok brook above Bystřice pod Lopeníkem, Bystřice pod Lopeníkem (7072b3), 390 m a.s.l.
42. Lubná brook above Lubná reservoir, Korytná (7072c1), 325 m a.s.l.
45. Korytnice brook above Korytná, Korytná (7071d2), 345 m a.s.l.
46. Korytnice brook below Korytná, Nivnice (7071b4), 290 m a.s.l.

Okluky stream

48. right tributary of Okluky stream, brooklets in Uvezené NM, Horní Němčí (7071d4), 530–540 m a.s.l.
51. Okluky stream above Horní Němčí, Horní Němčí (7071d4), 350–370 m a.s.l.
53. Boršický potok brook, spring brook, Slavkov u Uherského Brodu (7071d3), 475 m a.s.l.
54. Boršický potok brook, Slavkov u Uherského Brodu (7071d3), 370–420 m a.s.l.
55. Boršický potok brook above Boršice u Blatnice, Boršice u Blatnice (7071c2), 320 m a.s.l.

Svodnice stream

57. Bozatiný potok brook NW Háj hill NE Velká nad Veličkou, Velká nad Veličkou (7171a1), 350 m a.s.l.

Velička stream

58. Velička stream, spring area and upper section, Javorina NNR, Strání (7172a3), 850–900 m a.s.l.
62. left tributary of Velička stream near Hubertova bouda hut, Strání (7171b4), 700 m a.s.l.
64. left tributary of Velička stream near Hubertova bouda hut, spring area, Strání (7171b4), 570–620 m a.s.l.
68. Velička stream above confluence with Kamenný potok brook, Strání (7171b4), 470–480 m a.s.l.
69. left tributary of Kamenný potok brook near Dřevěná bouda hut, Strání (7171b2), 620–650 m a.s.l.
70. left tributary of Kamenný potok brook below Dřevěná bouda hut, Strání (7171b2), 510–550 m a.s.l.
71. right tributary of Kamenný potok brook, spring area below Porážky, Strání (7171b2), 560 m a.s.l.;
74. left tributary of Velička stream, spring of right branch NE Čupec hill, Nová Lhota u Veselí nad Moravou (7171b3), 675 m a.s.l.

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75. left tributary of Velička stream, right branch NE Čupec hill, Nová Lhota u Veselí nad Moravou (7171b3), 600 m a.s.l.
77. left tributary of Velička stream, spring of left branch NW Čupec hill, Nová Lhota u Veselí nad Moravou (7171d1), 800 m a.s.l.
80. left tributary of Velička stream, brooklet and spring area, Grůň SW Vápenky, Nová Lhota u Veselí nad Moravou (7171b3), 520–540 m a.s.l.
82. left tributary of Velička stream below Vápenky, Nová Lhota u Veselí nad Moravou (7171b3), 435 m a.s.l.
83. Velička stream below Vápenky, Nová Lhota u Veselí nad Moravou (7171b1/b3), 400–420 m a.s.l.
84. right tributary of Velička stream NE Hryzlácké Mlýny, Nová Lhota u Veselí nad Moravou (7171b1), 450 m a.s.l.
87. Kazivec brook S Horní Němčí, Slavkov u Uherského Brodu (7071d3), 460–485 m a.s.l.
88. left tributary of Kazivec brook ESE Suchov, Suchov (7171b1), 420–440 m a.s.l.
89. left tributary of Kazivec brook SE Suchov, Suchov (7171a2), 400 m a.s.l.
90. Kazivec brook SE Suchov, Suchov (7171a2), 390–410 m a.s.l.
92. left tributary of Velička stream, left branch NE Hradisko hill, Nová Lhota u Veselí nad Moravou (7171a4), 500 m a.s.l.
94. left tributary of Velička stream, Jazevčí NNR, Javorník nad Veličkou (7171a4), 355–360 m a.s.l.
95. Velička stream above Javorník, Jazevčí NNR, Javorník nad Veličkou/Nová Lhota u Veselí nad Moravou (7171a4), 325–350 m a.s.l.
97. Hrubý potok stream, Megovka hut, Nová Lhota u Veselí nad Moravou (7171c2), 455 m a.s.l.
98. left tributary of Hrubý potok stream N Kamenná vrata hill, Javorník nad Veličkou (7171c2), 550 m a.s.l.
101. Hrubý potok stream above Javorník, Javorník nad Veličkou (7171a3/a4/c2), 340–370 m a.s.l.
102. Zahrady pod Hájem NNR, Velká nad Veličkou (7171a1), 360 m a.s.l.
103. Velička stream, Tasov nad Veličkou (7070d3), 205 m a.s.l.
106. Kuželovský potok brook SE Tasov, Tasov nad Veličkou (7170b1), 212 m a.s.l.
107. left tributary of Velička stream S Kněždub, Kněždub (7170a2), 250 m a.s.l.

Radějovka stream

108. Radějovka stream, Čertoryje NNR, Kněždub (7170b3), 355–360 m a.s.l.
111. Járkovec brook, Tvarožná Lhota (7170d1), 420 m a.s.l.
112. left tributary of Járkovec brook, spring area N Bukovina hill, Tvarožná Lhota (7170c2), 450–470 m a.s.l.
113. Járkovec brook, Čertoryje NNR, Kněždub/Tvarožná Lhota (7170a4/c2/d1), 320–365 m a.s.l.
116. left tributary of Radějovka stream N Veselka hill, Tvarožná Lhota (7170a4), 290 m a.s.l.
117. Radějovka stream above Radějov, Tvarožná Lhota (7170a3), 270 m a.s.l.
119. Radějovka stream above Petrov, Petrov u Hodonína (7169b1), 175 m a.s.l.

Sudoměřický potok stream

120. Sudoměřický potok stream above Mlýnky, Radějov u Strážnice (7169d2), 300 m a.s.l.
123. Mandát stream, Kútky NR, Radějov u Strážnice (7170c2), 350 m a.s.l.
124. right tributary of Mandát stream, meadow spring area, Kútky NR, Radějov u Strážnice (7170c2), 400–415 m a.s.l.
125. Mandát stream above confluence with Sudoměřický potok stream, Radějov u Strážnice (7169d2), 265 m a.s.l.
127. Sudoměřický potok stream SW Staré hory hill, Sudoměřice (7169b3), 220 m a.s.l.
129. Sudoměřický potok stream above Sudoměřice, Sudoměřice (7169b3), 190 m a.s.l.

Myjava stream

130. Myjava stream, Nová Lhota u Veselí nad Moravou (7171d1), 580–650 m a.s.l.
131. left tributary of Myjava stream, Nová Lhota u Veselí nad Moravou (7171d1), 630 m a.s.l.
134. left tributary of Rybnický potok brook, spring area, Machová NR, Javorník nad Veličkou (7171c1), 440 m a.s.l.

135. Rybnický potok brook, Machová NR, Javorník nad Veličkou (7171c1/c2), 410–445 m a.s.l.
136. Rybnický potok brook, Machová NR, Javorník nad Veličkou (7171c1), 380–400 m a.s.l.

Váh river basin – right tributaries

Tovarský potok stream

139. Radošínský potok brook NE Nedašova Lhota, Nedašova Lhota (6874d1), 540–570 m a.s.l.
140. right tributary of Zápechová stream, spring area NE Nedašova Lhota, Nedašova Lhota (6874d1), 550 m a.s.l.
141. Zápechová stream NE Nedašova Lhota, Nedašova Lhota (6874d1), 520–530 m a.s.l.

Vlára river

142. right tributary of Sviborka stream NW Haluzice, Haluzice (6873c2), 390–425 m a.s.l.
145. Sviborka stream above confluence with Vlára river, Vlachovice (6873d1), 350–355 m a.s.l.;
147. Křekovský potok brook, springs W Jelenovská hill, Lipina (6873d4), 580 m a.s.l.
148. Křekovský potok brook above Křekov, Lipina (6873d4), 440–500 m a.s.l.
150. left tributary of Vlára river E Vrbětice below Vaňatka, Vrbětice (6873d4), 450 m a.s.l.
154. right tributary of Lukšinka stream SW Lipová, Lipová u Slavičina (6973c3), 420–435 m a.s.l.
155. Lukšinka stream above Slavičín, Slavičín (6973a1), 375 m a.s.l.
156. left tributary of Lipovský potok stream, spring area N Lipová, Lipová u Slavičina (6873c2), 500 m a.s.l.
157. left tributary of Lipovský potok stream E Lipová, Lipová u Slavičina (6873c4), 415 m a.s.l.
158. Lipovský potok stream above Slavičín, Slavičín (6973a2), 370 m a.s.l.
161. Václavský potok brook, spring W Haluzice, Haluzice (6873c2), 480 m a.s.l.
162. left tributary of Václavský potok brook, spring area S Haluzice, Haluzice (6873c2), 490 m a.s.l.
169. right tributary of Rokytěnka stream SSE Rokytnice, right branch, Rokytnice u Slavičina (6973b3), 400 m a.s.l.
173. Havránkův potok brook above Popov, Popov nad Vlárí (6973b2), 350–360 m a.s.l.
180. Vápenický potok brook above confluence with Zelenský potok stream, Štítná nad Vlárí (6973b4), 360 m a.s.l.
184. left tributary of Rakové brook, spring areas and brooklets N Ploštiny hill, Poteč (6874c2), 600–670 m a.s.l.
185. left tributary of Rakové brook E Poteč, Poteč (6874a4), 500–510 m a.s.l.
186. Rakové brook NE Poteč, Poteč (6874a4), 440–450 m a.s.l.
189. left tributary of Brumovka stream, spring areas and brooklets in Javorůvky NR, Valašské Klobouky (6874c1), 530–570 m a.s.l.
190. left tributary of Brumovka stream below Javorůvky NR, Valašské Klobouky (6874c1), 450 m a.s.l.
194. Dešňanský potok brook, spring area and brooklet in Dobšená NM, Valašské Klobouky (6874c1), 530–570 m a.s.l.
196. Brumovka stream below Valašské Klobouky, Valašské Klobouky (6874c3), 340–355 m a.s.l.
197. left tributary of Brumovka stream, spring areas in Bílé potoky NR, Valašské Klobouky (6874c3), 430–460 m a.s.l.
198. left tributary of Brumovka stream in Bílé potoky NR, Valašské Klobouky (6874c3), 400–430 m a.s.l.
201. right tributary of Nedašovka stream SE Ploštiny hill, Nedašova Lhota (6874c2), 540 m a.s.l.
203. left tributary of Nedašovka stream, spring section below Měříčka, Nedašova Lhota (6874d1), 580–610 m a.s.l.
204. Hrušovka brook, meadow wetland SW Kaňoury NM, Nedašov (6874d3), 520 m a.s.l.
205. left tributary of Nedašovka stream above Nedašov – Na Salaši, spring section, Nedašov (6974b1), 600–610 m a.s.l.

Stoneflies (Plecoptera)

206. left tributary of Nedašovka stream above Nedašov – Na Salaši, Nedašov (6974b1), 490–570 m a.s.l.
207. left tributary of Nedašovka stream, spring area SW Kaňúr hill, Nedašov (6874d3), 630 m a.s.l.
215. left tributary of Bylnička brook, spring area below Dily, Bylnice (6974a4), 600 m a.s.l.
217. left tributary of Bylnička brook N Tratihušť hill, Bylnice (6974a4), 500 m a.s.l.
218. left tributary of Bylnička brook N Maděrovce, Bylnice (6974a4), 450–550 m a.s.l.
222. right tributary of Vlára river, source area, Lazy NR S Bylnice, Bylnice (6974a3), 420 m a.s.l.
224. Hlubočský potok brook, Hluboče NM, Bylnice (6974a4), 440–460 m a.s.l.
226. Bukový potok brook, spring area below Chladný vrch NM, Svatý Štěpán (6974c1), 600 m a.s.l.
230. Uhlisko brook, right branch, Svatý Štěpán (6974c3), 570 m a.s.l.
231. Uhlisko brook, Svatý Štěpán (6974c1), 420 m a.s.l.
236. Vlára river, Vlárský průsmyk pass, Svatý Štěpán (6974c1–2), 285 m a.s.l.
239. Vlárka stream E Průklesy hill, Brumov (6974b1), 530–550 m a.s.l.
240. Vlárka stream above Sidonie, Sidonie (6974b3), 380 m a.s.l.
241. right tributary of Vlárka stream, spring area 1.2 km E Tratihušť hill, Sidonie (6974a4), 530–550 m a.s.l.
242. right tributary of Vlárka stream, spring areas and brooks above Sidonie NR, Sidonie (6974a4), 540–560 m a.s.l.
243. right tributary of Vlárka stream, Sidonie NR, Sidonie (6974a4), 430–470 m a.s.l.
244. right tributary of Vlárka stream, spring areas NE Okrouhlá hill, Sidonie (6974a4), 460–550 m a.s.l.

Drietomice stream

247. Drietomice stream, spring area, Vyškovec (7073c1), 590–620 m a.s.l.
249. left tributary of Drietomice stream, Ve Vlčí NR, Vyškovec (7073c1), 620–650 m a.s.l.
251. left tributary of Drietomice stream, spring areas and brooks E Vyškovec hill, Vyškovec (7073c1), 550–600 m a.s.l.
255. left tributary of Drietomice stream NE Kykula hill, Chmelinec NM, Vyškovec (7073c1), 435–440 m a.s.l.
256. left tributary of Drietomice stream, wetland and brooklet, Chmelinec NM, Vyškovec (7073c1), 438 m a.s.l.
258. Drietomice stream above confluence with Krátkovský potok stream, Starý Hrozenkov (7073a3), 360–390 m a.s.l.;
259. right tributary of Krátkovský potok stream, spring brook N Mikulčin vrch hill, Vápenice u Starého Hrozenkova (7072b4), 585 m a.s.l.
261. Krátkovský potok stream above Vápenice, Mravenčí louka NM, Vápenice u Starého Hrozenkova (7072b4), 450–485 m a.s.l.
262. left tributary of Krátkovský potok stream, spring area SE Nový Dvůr, Komňa (7072b4), 485 m a.s.l.
264. Trstná brook above Vápenice, Komňa (7072b4), 450–480 m a.s.l.
266. right tributary of Trstná brook, spring area NW Vápenice, Komňa (7072b4), 450–460 m a.s.l.
267. Krátkovský potok stream above confluence with Hrnčarův potok brook, Vápenice u Starého Hrozenkova (7073a3), 420 m a.s.l.
268. Hrnčarův potok brook above Vápenice, Vápenice u Starého Hrozenkova (7072b), 470–485 m a.s.l.
269. left tributary of Hrnčarův potok brook, spring area and brooklet in V Krátkých NM, Vápenice u Starého Hrozenkova (7072b4), 490 m a.s.l.
272. Vlčí potok brook NW Starý Hrozenkov, Starý Hrozenkov (7073a1), 440 m a.s.l.
275. left tributary of Žitkovský potok brook, spring areas in Hutě NR, Žitková (7073a2), 460–520 m a.s.l.
276. Žitkovský potok brook, Hutě NR, Žitková (7073a2), 440–450 m a.s.l.
281. Žitkovský potok below Žitková, Žitková (7073a4), 360–380 m a.s.l.

Bošáčka stream

283. left tributary of Predpolomský potok brook, spring area and brooklet S Výškovec hill, Výškovec (7072d2), 630–650 m a.s.l.
288. right tributary of Hrubár stream, Hrubý Mechnáč spring area, Lopeník (7072d2), 640–650 m a.s.l.
289. Hrubár stream above Lopeník, Lopeník (7072d1), 560–570 m a.s.l.
290. left tributary of Hrubár stream, spring brook in U Zvonice NM, Lopeník (7072d1), 655–660 m a.s.l.
291. Soliskový potok brook N Malý Lopeník Mt., Lopeník (7072d1), 680–780 m a.s.l.
292. Soliskový potok brook, Grůň NM, Lopeník (7072d1), 580–590 m a.s.l.
293. left tributary of Soliskový potok brook, meadow spring area in Grůň NM, Lopeník (7072d1), 590 m a.s.l.
295. Hrubár stream above Březová, Březová u Uherského Brodu (7072c2), 435 m a.s.l.
297. left tributary of Hrubár stream NE Březová, Březová u Uherského Brodu (7072c2), 440 m a.s.l.
298. right tributary of Hrubár stream W Březová, Březová u Uherského Brodu (7072c2), 480–500 m a.s.l.
299. Zlatný potok brook NW Velký Lopeník Mt., Březová u Uherského Brodu (7072d3), 550–590 m a.s.l.
300. right tributary of Zlatný potok brook, spring area NW Velký Lopeník Mt., Březová u Uherského Brodu (7072d3), 630 m a.s.l.
301. left tributary of Zlatný potok brook W Velký Lopeník Mt., Březová u Uherského Brodu (7072d3), 590–600 m a.s.l.
304. Zlatný potok brook W Velký Lopeník Mt., Březová u Uherského Brodu (7072d3), 430–450 m a.s.l.
305. Hrubár stream below confluence with Zlatný potok brook, Březová u Uherského Brodu (7072c4), 365–370 m a.s.l.

Klanečnice stream

308. Klanečnice stream above Straňanská nádrž reservoir, Strání (7072c3), 450 m a.s.l.
309. left tributary of Klanečnice stream, spring areas in Hrnčárky NM, Strání (7072c3), 440–490 m a.s.l.
311. right tributary of Klanečnice stream above Záhumenice NM, spring section, Strání (7172a1), 650 m a.s.l.
312. right tributary of Klanečnice stream, Záhumenice NM, Strání (7172a1), 460–500 m a.s.l.
313. Svinárský potok stream, Javorina NNR, Strání (7172a3), 670 m a.s.l.
314. Svinárský potok stream, Strání (7172a3), 560–590 m a.s.l.
316. right tributary of Svinárský potok stream, Javorina NNR, Strání (7172a3), 700 m a.s.l.
317. left tributary of Svinárský potok stream, spring area 2.5 km N Velká Javořina Mt., Strání (7172a1), 630 m a.s.l.
320. Svinárský potok stream above Květná, Strání (7172a1), 390–420 m a.s.l.
322. left tributary of Svinárský potok stream, spring area in Mechnáčky NM, Strání (7172a1), 460 m a.s.l.
324. Klanečnice stream below Květná, Strání (7172a2), 345–350 m a.s.l.
325. left tributary of Klanečnice stream, brook and spring area SE Nová hora hill, Strání (7172a2), 440–480 m a.s.l.
326. left tributary of Klanečnice stream E Květná, spring area, Strání (7172a2), 430 m a.s.l.

Annotated list of species

All material examined from recent collections is listed for each species; individual records are ordered according to the number of the collecting site. Each record is arranged as follows: shortened name of the collecting site, altitude, number of the collecting site (in parentheses), date(s) of collection(s), number of specimens, collector(s), and the deposition of the material (in parentheses). The (mostly revised) material collected in the Bílé Karpaty PLA in 1958 by J. Raušer is listed separately under the section “Unpublished historical records”, with the basic field code number in the faunistic and floristic grid mapping system of central Europe in parentheses. Published data are cited including the name of the collecting site, name of the nearest village, town or mountain, and the corresponding subfield code number in the faunistic and floristic grid mapping system of central Europe in parentheses.

Family PERLODIDAE***Diura bicaudata* (Linnaeus, 1758)**

Recent material examined. Velička, spring area, upper section, 850–900 m (58), 4.vi.2009, 1 ♀, P. Chvojka leg. (NMPC). LT Bylnička brook, 500 m (217), 21.v.2009, 1 ♀, J. Ježek leg. (NMPC). Soliskový potok, 580–590 m (292), 9.v.2008, 1 ♂ 1 ♀, P. Komzák leg. (JBBC). LT Soliskový potok, spring area, 590 m (293), 1.vi.2008, 1 ♀, P. Komzák leg. (JBBC). Zlatný potok, 550–590 m (299), 9.v.2008, 2 ♀♀; 1.vi.2008, 1 ♂, P. Komzák leg. (JBBC). Svinárský potok, 560–590 m (314), 19.v.–7.vi.2005 (MT), 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). RT Svinárský potok, 700 m (316), 4.vi.2009, 1 ♀, P. Chvojka leg. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: An infrequent species occurring above 550–600 m a.s.l. **Red List status:** –.

Comments. A Holarctic species. In Europe present in Fennoscandia and disjunctive areas in the Alps, Hercynian mountains and the Carpathians. In the Czech Republic, it occurs in small streams in the montane and submontane zones.

***Isoperla grammatica* (Poda, 1761)**

Unpublished historical records. Olšava stream above Pitín, 375 m a.s.l. (6973), 18.vi.1958, 1 ♂. Klanečnice stream in Strání-Květná, 340 m a.s.l. (7172), 18.vi.1958, 2 ♂♂ 1 ♀; 16.vii.1958; 3 ♂♂ 6 ♀♀. All J. Raušer leg. (JRBC).

Recent material examined. Bozatiný potok, 350 m (57), 6.vi.2005, 1 ♂, P. Chvojka leg. (NMPC). Velička, 325–350 m (95), 3.vi.2009, 1 ♂ 2 ♀♀; 23.v.2009, 1 ♂ 7 ♀♀, P. Komzák leg. (JBBC). Járkovec, 320–365 m (113), 29.v.–20.vi.2006 (MT), 3 ♂♂ 2 ♀♀; 20.vi.–10.vii.2006 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Mandát, 350 m (123), 4.vi.–26.vi.2008 (MT), 1 ♂ 3 ♀♀; 26.vi.–15.vii.2008 (MT), 3 ♂♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Mandát, 265 m (125), 19.vi.2006, 1 ♂ 1 ♀, P. Chvojka leg. (NMPC). Sudoměřický potok, 220 m (127), 8.vi.2005, 1 ♂; 19.vi.2006, 1 ♀; 12.vii.2006, 1 ♀, P. Chvojka leg. (NMPC). Sudoměřický potok, 190 m (129), 12.vii.2006, 1 ♀; 27.vi.2008, 1 ♂ 3 ♀♀, P. Chvojka leg. (NMPC). Rybnický potok, 410–445 m (135), 18.vi.–9.vii.2007 (MT), 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Rybnický potok, 380–400 m (136), 14.vi.–13.vii.2010 (MT), 6 ♂♂, P. Chvojka & J. Macek leg. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: It inhabits streams at lower altitudes, mostly in the southern part of the area. **Red List status:** –.

Comments. A widespread western Palaearctic species, occurring in whole Europe and the Near East. It lives in various types of running waters at different altitudes. In the Czech Republic, it is common especially in the colline and lowland zones.

Isoperla oxylepis oxylepis (Despax, 1936)

Recent material examined. LT Kamenný potok, 510–550 m (70), 29.vi.2005, 1 ♂, leg. P. Chvojka (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Recorded only once. **Red List status:** –.

Comments. A central European species extending to the Balkans. In the Czech Republic, it is very common; it inhabits submontane and montane brooks and streams.

Isoperla sudetica (Kolenati, 1859)

(EN)

Published records. BOJKOVÁ & ŠPAČEK (2006) (as *I. goertzi*): unnamed springbrook in Bílé potoky NR, Valašské Klobouky (6874c3); unnamed springbrook near Hrubý Mechnáč, Lopeník (7072d2); spring area near Hubertova bouda hut, Nová Lhota-Vápenky (7171b4); Velička above Hubertova bouda hut, Nová Lhota-Vápenky (7171b4); Svinárský potok N of Velká Javořina Mt., Strání (7172a3).

Recent material examined. Nivnička, spring area, 580 m (37), 26.vi.2010, 1 ♂, P. Komzák leg. (JBBC). RT Okluky, brooklets, 530–540 m (48), 30.v.2009, 1 ♂ 1 ♀, P. Komzák leg. (JBBC). LT Kamenný potok, 620–650 m (69), 4.vi.2009, 1 ♀; 29.vi.2005, 1 ♂, P. Chvojka leg. (NMPC). LT Velička, spring of right branch, 675 m (74), 5.vi.2009, 1 ♀; 23.vi.2009, 1 ♀, P. Chvojka leg. (NMPC). LT Velička, right branch, 600 m (75), 5.vi.2009, 1 ♂, P. Chvojka leg. (NMPC). LT Velička, 435 m (82), 22.vi.–15.vii.2009 (MT), 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). LT Velička, 355–360 m (94), 12.v.–2.vi.2009 (MT), 2 ♂♂; 25.vi.–15.vii.2009 (MT), 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Velička, 325–350 m (95), 3.vi.2009, 1 ♂ 2 ♀♀, P. Chvojka leg. (NMPC). Velička, 325–350 m (95), 25.vi.2009, 1 ♂ 7 ♀♀, P. Chvojka leg. (NMPC). Myjava, 580–650 m (130), 14.vi.2010, 1 ♂ 1 ♀, P. Chvojka leg. (NMPC). Havránkův potok, 350–360 m (173), 27.v.2010, 1 ♂, P. Chvojka leg. (NMPC). LT Rakové, spring areas and brooklets, 600–670 m (184), 22.vi.2006, 1 ♀, P. Chvojka leg. (NMPC). Bukový potok, spring area, 600 m (226), 24.v.–16.vi.2010 (MT), 1 ♂, P. Chvojka & J. Macek leg. (NMPC). RT Vlárka, 430–470 m (243), 5.v.–25.v.2010 (MT), 2 ♂♂, P. Chvojka & J. Macek leg. (NMPC). Krátkovský potok, 450–485 m (261), 31.v.2008, 4 ♂♂ 1 ♀, P. Komzák leg. (JBBC). LT Brumovka, spring areas, 430–460 m (197), 23.vi.2006, 1 ♀, P. Chvojka leg. (NMPC). LT Brumovka, spring areas, 430–460 m (197), 13.vii.–31.viii.2006 (MT), 1 ♂, P. Chvojka & J. Macek leg. (NMPC). LT Drietomice, 435–440 m (255), 17.v.2007, 1 ♂, J. Bojková leg. (JMBC). RT Vlárka, spring area, 530–550 m (241), 17.vi.2010, 1 ♂, P. Chvojka leg. (NMPC). RT Krátkovský potok, spring brook, 585 m (259), 31.v.2008, 1 ♀, P. Komzák leg. (JBBC). Krátkovský potok, 450–485 m (261), 31.v.2008, 4 ♂♂ 1 ♀, P. Komzák leg. (JBBC). RT Hrubár, spring area, 640–650 m (288), 25.vi.2008, 2 ♀♀, P. Chvojka leg. (NMPC). LT Hrubár, spring brook, 655–660 m (290), 9.v.2008, 3 ♀♀; 1.vi.2008, 2 ♀♀, 28.vi.2008, 1 ♂, P. Komzák leg. (JBBC). Soliskový potok, 680–780 m (291), 28.vi.2008, 3 ♂ 7 ♀♀, P. Komzák leg. (JBBC). Soliskový potok, 580–590 m (292), 1.vi.2008, 1 ♂; 22.v.2010, 1 ♀, P. Komzák leg. (JBBC). Zlatný potok, 550–590 m (299), 9.v.2008, 4 ♂♂ 1 ♀; 1.vi.2008, 3 ♂ 5 ♀♀, P. Komzák leg. (JBBC). Zlatný potok, 430–450 m (304), 9.v.2008, 1 ♂, 1.vi.2008, 1 ♀, P. Komzák leg. (JBBC). RT Svinárský potok, 700 m (316), 4.vi.2009, 1 ♀, P. Chvojka leg. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: It occurs in upper sections of streams and in submontane sections of streams that flow from high mountains. **Red List status:** EN.

Comments. A central European species restricted to the Hercynian mountains and the Carpathians. It occurs in various types of montane watercourses.

Isoperla tripartita tripartita Illies, 1954

(EN)

Published records. BOJKOVÁ & ŠPAČEK (2006): unnamed springbrook NE of Poteč (6874a4); Hrušovka below Kaňoury NM, Nedašov (6874d3); unnamed springbrook SE of Nedašov – Na Salaši (6974b1); unnamed springbrook near Hrubý Mechnáč, Lopeník (7072d2); Kazivec SE of Suchov (7171a2); Járkovec SE of Čertoryje NNR, Kněždub/Tvarožná Lhota (7170a4/c2/d1); Vrbecka SW of Čertoryje NNR, Kněždub/Tvarožná Lhota (7170a4/c2); Radějovka, Čertoryje NNR, Kněždub (7170b3); Mandát S of Radějov (7170c1); Velička above Hubertova bouda hut, Nová Lhota-Vápenky (7171b4); Rybnický potok S of Javorník (7171c1/c2); Svinárský potok N of Velká Javořina Mt., Strání (7172a3).

Recent material examined. Kolečka, 335 m (10), 27.vi.2010, 1 ♂ 1 ♀, P. Komzák leg. (JBBC). Kladenska, 390 m (22), 21.iv.–13.v.2008 (MT), 1 ♂; 13.v.–3.vi.2008 (MT), 7 ♂♂ 2 ♀♀; 3.vi.–23.vi.2008 (MT), 3 ♂♂ 8 ♀♀; 23.vi.–16.vii.2008 (MT), 2 ♂♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Třešňávka, 310 m (23), 26.vi.2010, 1 ♀, P. Komzák leg. (JBBC). Kladenska, 245 m (26), 4.v.2009, 1 ♂, P. Komzák leg. (JBBC). Luhačovický potok, 325 m (27), 24.vi.2008, 1 ♀, P. Chvojka leg. (NMPC); 23.v.2010, 8 ♂♂, P. Komzák leg. (JBBC). LT Luhačovický potok, 330 m (29), 27.vi.2010, 2 ♂♂ 1 ♀, P. Komzák leg. (JBBC). Luhačovický potok, 285 m (33), 27.vi.2010, 1 ♀, P. Komzák leg. (JBBC). Gáborka, spring areas, 390–420 m (34), 27.vi.2010, 2 ♀♀, P. Komzák leg. (JBBC). Nivnička, 480 m (38), 26.vi.2010, 2 ♂♂, P. Komzák leg. (JBBC). Pivný potok, 390 m (41), 22.v.2010, 1 ♂; 26.vi.2010, 2 ♂♂ 4 ♀♀, P. Komzák leg. (JBBC). Lubná, 325 m (42), 4.vi.2007, 1 ♂, P. Komzák leg. (JBBC). Korytnice, 345 m (45), 25.v.2010, 1 ♂; 16.vi.2010, 1 ♀, P. Komzák leg. (JBBC). Korytnice, 290 m (46), 26.vi.2010, 1 ♀, P. Komzák leg. (JBBC). Boršický potok, 370–420 m (54), 27.vi.2009, 1 ♂ 1 ♀, P. Komzák leg. (JBBC). LT Velička, 435 m (82), 12.v.–3.vi.2009 (MT), 1 ♂; 3.vi.–22.vi.2009 (MT), 5 ♂♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Kazivec, 460–485 m (87), 2.viii.2004, 2 ♂♂ 3 ♀♀; 1.vii.2005, 1 ♀, P. Chvojka leg. (NMPC). Kazivec, 460–485 m (87), 30.v.2009, 2 ♂♂ 2 ♀♀; 27.vi.2009, 1 ♂ 1 ♀; 29.vii.2009, 1 ♂, P. Komzák leg. (JBBC). LT Kazivec, 420–440 m (88), 1.vii.2005, 2 ♂♂, P. Chvojka leg. (NMPC). LT Velička, 355–360 m (94), 12.v.–2.vi.2009 (MT), 1 ♂ 1 ♀; 2.vi.–25.vi.2009 (MT), 6 ♂♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Radějovka, 355–360 m (108), 1.vi.2009, 5 ♂♂ 1 ♀, P. Chvojka leg. (NMPC); 25.v.–15.vi.2010 (MT), 8 ♂♂ 1 ♀; 15.vi.–14.vii.2010 (MT), 2 ♂♂ 1 ♀, P. Chvojka & J. Macek leg. (NMPC). Járkovec, 320–365 m (113), 29.v.–20.vi.2006 (MT), 5 ♂♂ 2 ♀♀; 20.vi.–10.vii.2006 (MT), 2 ♂♂ 4 ♀♀; 10.vii.–31.vii.2006 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC); 1.vi.2009, 1 ♀, P. Chvojka leg. (NMPC). LT Radějovka, 290 m (116), 20.vi.2006, 1 ♂ 1 ♀, P. Chvojka leg. (NMPC). Radějovka, 270 m (117), 20.vi.2006, 1 ♂, P. Chvojka leg. (NMPC). Sudoměřický potok, 300 m (120), 19.vi.2006, 1 ♀; 27.vi.2008, 1 ♀, P. Chvojka leg. (NMPC). Mandát, 350 m (123), 14.v.–4.vi.2008 (MT), 5 ♂♂ 8 ♀♀; 4.vi.–26.vi.2008 (MT), 25 ♂♂ 5 ♀♀; 26.vi.–15.vii.2008 (MT), 6 ♂♂ 5 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Rybnický potok, 410–445 m (135), 12.iv.–9.v.2007 (MT), 1 ♂; 9.v.–28.v.2007 (MT), 3 ♂♂ 2 ♀♀; 18.vi.–9.vii.2007 (MT), 1 ♂; 9.vii.–2.viii.2007 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Rybnický potok, 380–400 m (136), 27.vi.2005, 1 ♀, P. Chvojka leg. (NMPC); 14.vi.–13.vii.2010 (MT), 6 ♂♂ 5 ♀♀, P. Chvojka & J. Macek leg. (NMPC). RT Lukšinka, 420–435 m (154), 27.vi.2010, 3 ♂♂ 1 ♀, P. Komzák leg. (JBBC). Lukšinka, 375 m (155), 27.vi.2010, 2 ♂♂, P. Komzák leg. (JBBC). LT Rakové, 500–510 m (185), 11.vi.2005, 1 ♀, P. Chvojka leg. (NMPC). Krátkovský potok, 450–485 m (261), 31.v.2008, 1 ♂, P. Chvojka leg. (NMPC). LT Krátkovský potok, spring area, 485 m (262), 31.v.2008, 1 ♀, P. Komzák leg. (JBBC). Hrubár, 560–570 m (289), 25.vi.2008, 2 ♂♂ 4 ♀♀, P. Chvojka leg. (NMPC). Soliskový potok, 580–590 m (292), 1.vi.2008, 1 ♀, P. Komzák leg. (JBBC); 25.vi.2008, 1 ♂, P. Chvojka leg. (NMPC). Klanečnice, 450 m (308), 2.vi.2007, 4 ♂♂ 2 ♀♀, P. Chvojka leg. (NMPC). RT Klanečnice, 460–500 m (312), 2.vi.2007, 3 ♀♀, P. Komzák leg. (JBBC); 25.v.–15.vi.2010 (MT), 9 ♂♂ 2 ♀♀; 15.vi.–9.vii.2010 (MT), 10 ♂♂ 8 ♀♀, P. Chvojka & J. Macek leg. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: A widespread and abundant species inhabiting all types of running water habitats except the upper stream sections at high altitudes. **Red List status:** EN.

Comments. An eastern Mediterranean species extending into the Carpathians in the north. It occurs from the submontane to planar zones. In the Czech Republic, it is frequent only in the south-eastern part of Moravia; isolated records are known also from the Bohemian-Moravian Highlands and central Bohemia (RAUŠER 1964b).

Isoperla spp.

Unpublished historical records. Olšava stream above Pitín, 375 m a.s.l. (6973), 23.iv.1958, 2 L. Radějovka stream above Radějov, 275 m a.s.l. (7170), 18.vii.1958, 1 ♀. Both J. Raušer leg. (JRBC).

Recent material examined. Lubná, 325 m (42), 4.vi.2007, 1 ♀, P. Komzák leg. (JBBC). LT Velička, 700 m (62), 28.vi.2005, 1 ♀, P. Chvojka leg. (NMPC). LT Velička, spring area, 570–620 m (64) 19.v.–7.vi.2005 (MT), 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). LT Velička, 435 m (82), 12.v.–3.vi.2009 (MT), 3 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Radějovka, 175 m (119), 8.vi.2005, 1 ♀, P. Chvojka leg. (NMPC). Radějovka, 270 m (117), 14.vii.2008, 1 ♀, P. Chvojka leg. (NMPC). RT Sviborka, 390–425 m (142), 24.vi.2008, 1 ♀, P. Chvojka leg. (NMP). Vlárka, 530–550 m (239), 9.vi.2005, 1 ♀, P. Chvojka leg. (NMPC). LT Drietomice, spring areas and brooks, 550–600 m (251), 4.vi.2007, 4 ♀♀; 24.vi.2007, 1 ♀, P. Komzák leg. (JBBC). LT Svinárský potok, 560–590 m (314), 29.vi.–27.vii.2005 (MT), 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Svinárský potok, spring area, 630 m (317), 29.vi.2005, 1 ♀, P. Chvojka leg. (NMPC). Klanečnice, 345–350 m (324), 15.vi.2010, 1 ♀, P. Chvojka leg. (NMPC).

Comments. From the above cited sites, only female specimens and juvenile larvae were available which could not be identified with certainty. Identification of females in the genus *Isoperla* is ambiguous with the exception of *I. tripatita*.

Perlodes dispar (Rambur, 1842)

(EN)

Unpublished historical records. Klanečnice stream in Strání-Květná, 340 m a.s.l. (7172), 28.viii.1958, 1 L, J. Raušer leg. (RAUŠER in litt.).

Distribution and frequency in the Bílé Karpaty PLA: *P. dispar* was recorded from the area based on an unpublished protocol by J. Raušer. The corresponding material was, however, not found in his collection (JRBC) and thus could not be revised. The occurrence of *P. dispar* in the Klanečnice stream is rather unlikely because the character of this stream does not fully correspond to the habitat preference of the species (GRAF *et al.* 2009). On the other hand, its occurrence in the Bílé Karpaty PLA cannot be excluded.

Red List status: EN.

Comments. A European species occurring predominantly in epipotamal and metapotamal sections of rivers in the colline zone and lowlands.

Perlodes microcephalus (Pictet, 1833)

Published records. JURAJDA *et al.* (2000): Trstná in Vápenice (7072); Vlčí potok above Starý Hrozenkov (7073).

Distribution and frequency in the Bílé Karpaty PLA: *P. microcephalus* was recorded only in two streams in the Drietomica river basin. **Red List status:** –.

Comments. A common European species missing only in northern and eastern Europe. It inhabits various running water habitats at a wide range of altitudes.

Family PERLIDAE

Perla abdominalis Burmeister, 1839

(VU)

Recent material examined. LT Velička, 435 m (82), 7.iv.–12.v.2009 (MT), 1 ♂; 12.v.–3.vi.2009 (MT), 2 ♂♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). LT Velička, 355–360 m (94), 6.iv.–12.v.2009 (MT), 1 ♀; 12.v.–2.vi.2009 (MT), 16 ♂♂ 2 ♀♀; 2.vi.–25.vi.2009 (MT), 6 ♂♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Velička, 325–350 m (95), 3.vi.2009, 1 ♀, P. Chvojka leg. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: The species was found in the Velička river near Javorník and in Malaise traps near its two left tributaries, close to the villages of Vápenky and Javorník. However, the most likely, it inhabits only the Velička river. The Malaise traps near its tributaries were *ca.* 300 m far from the Velička river and the imagines from the river could have easily reached them. **Red List status:** VU.

Comments. A Submediterranean species present in southern and central Europe, and North Africa (SIVĚC & STARK 2002). In the Czech Republic, it inhabits metarhithral, hyporhithral and epipotamal sections of rivers mainly in the submontane and colline zones. The chorionic structure of eggs of the female collected in the Velička river does not correspond to the descriptions published by SIVĚC & STARK (2002).

Perla marginata (Panzer, 1799)

(EN)

Published records. JURAJDA *et al.* (2000): Krátkovský potok above Starý Hrozenkov (7073).

Unpublished historical records. Olšava stream above Pitín, 375 m a.s.l. (6973), 15.x.1958, 1 L. Klanečnice stream in Strání-Květná, 340 m a.s.l. (7172), 28.viii.1958, 1 L, J. Raušer leg. (JRBC).

Distribution and frequency in the Bílé Karpaty PLA: There are only three records from the area. Recently, the species has not been confirmed at the sites of its earlier occurrence. **Red List status:** EN.

Comments. A western and central European species (SIVĚC & STARK 2002). In the Czech Republic, it inhabits only clear, fast-flowing mountain streams. It is sensitive to pollution and acidification.

Family CHLOROPERLIDAE

Siphonoperla neglecta (Rostock, 1881)

Recent material examined. Pivný potok, spring brooks, 550–560 m (39), 22.v.2010, 1 ♂, P. Komzák leg. (JBBC). LT Velička, right branch, 600 m (75), 5.vi.2009, 2 ♂♂ 1 ♀, P. Chvojka leg. (NMPC). Hrušovka, wetland, 520 m (204), 10.vi.2005, 2 ♂♂ 2 ♀♀, P. Chvojka leg. (NMPC). RT Vlárka, 430–470 m (243), 5.v.–25.v.2010 (MT), 1 ♂ 1 ♀, P. Chvojka & J. Macek leg. (NMPC). Zlatný potok, 550–590 m (299), 9.v.2008, 1 ♂ 3 ♀♀; 1.vi.2008, 2 ♂♂ 4 ♀♀, P. Komzák leg. (JBBC). RT Klanečnice, 460–500 m (312), 7.v.2007, 2 ♂♂ 1 ♀, P. Komzák leg. (JBBC). Svinárský potok, 560–590 m (314), 19.v.–7.vi.2005 (MT), 1 ♂ 5 ♀♀; 7.vi.–29.vi.2005 (MT), 4 ♀♀; 29.vi.–27.vii.2005 (MT), 2 ♂♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: An infrequent species occurring above 500 m a.s.l. **Red List status:** –.

Comments. A southern and central European species distributed in the Hercynian mountains, the Alps, the Carpathians, and the Balkans. In the Czech Republic, it occurs mostly in small streams and brooks at higher altitudes.

Siphonoperla torrentium (Pictet, 1841)

Unpublished historical records. Radějovka stream above Radějov, 275 m a.s.l. (7170), 18.vi.1958, 1 ♂, J. Raušer leg. (JRBC).

Recent material examined. Sudoměřický potok, 300 m (120), 16.v.2007, 3 ♂♂ 10 ♀♀, J. Bojková leg. (JBBC). Mandát, 350 m (123), 22.iv.–14.v.2008 (MT), 1 ♀; 14.v.–4.vi.2008 (MT), 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Mandát, 265 m (125), 19.vi.2006, 1 ♀; 27.vi.2008, 1 ♂, P. Chvojka leg. (NMPC). LT Hrubár, spring brook, 655–660 m (290), 9.v.2008, 1 ♂; 1.vi.2008, 2 ♀♀, P. Komzák leg. (JBBC).

Distribution and frequency in the Bílé Karpaty PLA: Infrequent but not rare. **Red List status:** –.

Comments. A European species missing in Fennoscandia. It is common and often abundant in various running water habitats at a wide range of altitudes.

Siphonoperla spp.

Recent material examined. RT Okluky, brooklets, 530–540 m (48), 30.v.2009, 1 ♀, P. Komzák leg. (JBBC). LT Kamenný potok, 620–650 m (69), 4.vi.2009, 1 ♀, P. Chvojka leg. (NMPC). LT Velička, spring of right branch, 675 m (74), 5.vi.2009, 2 ♀♀, P. Chvojka leg. (NMPC). LT Velička, 355–360 m (94), 2.vi.2009, 1 ♀, P. Chvojka leg. (NMPC). Rybnický potok, 410–445 m (135), 6.vi.2005, 3 ♀♀, P. Chvojka leg. (NMPC). Bukový potok, spring area, 600 m (226), 24.v.–16.vi.2010 (MT), 1 ♀, P. Chvojka & J. Macek leg. (NMPC). LT Drietomice, spring areas and brooks, 550–600 m (251), 4.vi.2007, 2 ♀♀, P. Komzák leg. (JBBC). Krátkovský potok, 450–485 m (261), 8.v.2008, 1 ♀, P. Komzák leg. (JBBC). Soliskový potok, 580–590 m (292), 1.vi.2008, 2 ♀♀, P. Komzák leg. (JBBC). RT Klanečnice, 460–500 m (312), 2.vi.2007, 4 ♀♀, P. Komzák leg. (JBBC).

Comments. In the above cited sites, only female specimens were found. The identification of females in the genus is ambiguous.

Family TAENIOPTERYGIDAE

Brachyptera risi (Morton, 1896)

Unpublished historical records. Radějovka stream above Radějov, 275 m a.s.l. (7170), 23.iv.1958, 2 L. Olšava stream above Pítín, 375 m a.s.l. (6973), 23.iv.1958, 2 L, Raušer leg. (JRBC).

Recent material examined. Lubná, 325 m (42), 4.vi.2007, 1 ♀, P. Komzák leg. (JBBC). Velička, 470–480 m (68), 28.vi.2006, 1 ♀, P. Chvojka leg. (NMPC). LT Kamenný potok, 510–550 m (70), 29.vi.2005, 1 ♀, P. Chvojka leg. (NMPC). LT Velička, 355–360 m (94), 6.iv.–12.v.2009 (MT), 1 ♂; 2.vi.–25.vi.2009 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Radějovka, 355–360 m (108), 5.v.–25.v.2010 (MT), 4 ♂♂ 5 ♀♀; 25.v.–15.vi.2010 (MT), 2 ♀♀, P. Chvojka & J. Macek leg. (NMPC). Járkovec, 320–365 m (113), 10.v.–29.v.2006 (MT), 2 ♂♂ 26 ♀♀; 29.v.–20.vi.2006 (MT), 1 ♂ 12 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Járkovec, 320–365 m (113), 1.vi.2009, 1 ♀, P. Chvojka leg. (NMPC). Radějovka, 270 m (117), 20.vi.2006, 3 ♂♂ 1 ♀, P. Chvojka leg. (NMPC). Sudoměřický potok, 300 m (120), 19.vi.2006, 1 ♀, P. Chvojka leg. (NMPC). Mandát, 350 m (123), 22.iv.–14.v.2008 (MT), 2 ♂♂ 4 ♀♀; 14.v.–4.vi.2008 (MT), 1 ♂ 7 ♀♀; 4.vi.–26.vi.2008 (MT), 4 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Mandát, 265 m (125), 19.vi.2006, 1 ♂ 4 ♀♀, P. Chvojka leg. (NMPC). Rybnický potok, 410–445 m (135), 9.v.–28.v.2007 (MT), 2 ♀♀, P.

Stoneflies (Plecoptera)

Chvojka, J. Ježek & J. Macek leg. (NMPC). Rybnický potok, 380–400 m (136), 5.v.–24.v.2010 (MT), 2 ♂♂ 1 ♀; 14.vi.–13.vii.2010 (MT), 1 ♀, P. Chvojka & J. Macek leg. (NMPC). Zápechová, 520–530 m (141), 18.vi.2010, 2 ♀♀, P. Chvojka leg. (NMPC). Hrušovka, wetland, 520 m (204), 10.vi.2005, 1 ♀, P. Chvojka leg. (NMPC). Bukový potok, spring area, 600 m (226), 5.v.–24.v.2010 (MT), 1 ♂; 24.v.–16.vi.2010 (MT), 1 ♀, P. Chvojka & J. Macek leg. (NMPC). Vlára, 285 m (236), 9.vi.2005, 1 ♀, P. Chvojka leg. (NMPC). Vlárka, 530–550 m (239), 9.vi.2005, 1 ♀; 17.vi.2010, 1 ♀, P. Chvojka leg. (NMPC). Vlárka, 380 m (240), 25.v.2010, 1 ♀, P. Chvojka leg. (NMPC). Krátkovský potok, 420 m (267), 4.vi.2007, 1 ♀, P. Komzák leg. (JBBC). Hrnčářův potok, 470–485 m (268), 30.v.2009, 1 ♀, P. Komzák leg. (JBBC). Hrubár, 560–570 m (289), 25.vi.2008, 1 ♀, P. Chvojka leg. (NMPC). Soliskový potok, 580–590 m (292), 9.v.2008, 2 ♀♀; 22.v.2010, 1 ♀, P. Komzák leg. (JBBC). RT Klanečnice, 460–500 m (312), 7.v.2007, 2 ♂♂, P. Komzák leg. (JBBC); 8.iv.–5.v.2010 (MT), 4 ♂♂; 5.v.–25.v.2010 (MT), 25 ♂♂ 59 ♀♀; 25.v.–15.vi.2010 (MT), 8 ♂♂ 37 ♀♀; 15.vi.–9.vii.2010 (MT), 1 ♂ 17 ♀♀, P. Chvojka & J. Macek leg. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Very common at the altitudes of ca. 300–550 m a.s.l. **Red List status:** –.

Comments. A European species, occurring in the Czech Republic in medium-sized and larger streams at lower altitudes, usually downstream from the habitats of *B. seticornis*.

Brachyptera seticornis (Klapálek, 1902)

Recent material examined. LT Drietomice, spring areas and brooks, 550–600 m (251), 4.vi.2007, 1 ♀, P. Komzák leg. (JBBC). Hrnčářův potok, 470–485 m (268), 31.v.2008, 3 ♂♂ 2 ♀♀; 30.v.2009, 1 ♀, P. Komzák leg. (JBBC). Hrubár, 560–570 m (289), 23.v.2006, 1 ♀, J. Bojková leg. (JBBC). Soliskový potok, 580–590 m (292), 1.vi.2008, 1 ♀; 22.v.2010, 3 ♀♀, P. Komzák leg. (JBBC). Svinářský potok, 560–590 m (314), 19.v.–7.vi.2005 (MT), 1 ♀; 7.vi.–29.vi.2005 (MT), 3 ♀♀; 29.vi.–27.vii.2005 (MT), 2 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Found only in streams in the central, mountainous part of the area. **Red List status:** –.

Comments. A central and southern European species. In the Czech Republic, it is frequent in clean submontane and montane streams.

Family NEMOURIDAE

Amphinemura standfussi (Ris, 1902)

(VU)

Unpublished historical records. Klanečnice stream in Strání-Květná, 340 m a.s.l. (7172), 18.vi.1958, 1 ♀, J. Raušer leg. (JRBC).

Recent material examined. Kolelač, 335 m (10), 27.vi.2010, 1 ♀, P. Komzák leg. (JBBC). Kladenska, 390 m (22), 3.vi.–23.vi.2008 (MT), 2 ♀♀; 23.vi.–16.vii.2008 (MT), 2 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Třešňůvka, 310 m (23), 26.vi.2010, 1 ♀, P. Komzák leg. (JBBC). LT Luhačovický potok, 330 m (29), 27.vi.2010, 1 ♀, P. Komzák leg. (JBBC). Pivný potok, 390 m (41), 26.vi.2010, 2 ♀♀, P. Komzák leg. (JBBC). Lubná, 325 m (42), 4.vi.2007, 1 ♀, P. Komzák leg. (JBBC). Boršický potok, 370–420 m (54), 27.vi.2009, 2 ♀♀, P. Komzák leg. (JBBC). Boršický potok, 320 m (55), 30.v.2009, 3 ♂♂, P. Komzák leg. (JBBC). Bozatinický potok, 350 m (57), 6.vi.2005, 2 ♂♂ 3 ♀♀, P. Chvojka leg. (NMPC). LT Velička, 435 m (82), 3.vi.–22.vi.2009 (MT), 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Kazivec, 460–485 m (87), 1.vii.2005, 3 ♂♂, P. Chvojka leg. (NMPC); 30.v.2009, 1 ♂ 3 ♀♀; 27.vi.2009, 2 ♀; 29.vii.2009, 1 ♂ 3 ♀♀, P. Komzák leg. (JBBC). Kazivec, 390–410 m (90), 15.ix.2009, 1 ♀, P. Chvojka leg. (NMPC). LT Velička, 355–360 m (94), 2.vi.–25.vi.2009 (MT), 1 ♂ 3 ♀♀; 25.vi.–15.vii.2009 (MT), 5 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Hrubý potok, 455 m (97), 14.vi.2010, 1 ♀, P. Chvojka leg. (NMPC). LT Velička, 250 m (107),

10.vii.2006, 1 ♀, P. Chvojka leg. (NMPC). Radějovka, 355–360 m (108), 11.vii.2006, 1 ♀, P. Chvojka leg. (NMPC); 5.v.–25.v.2010 (MT), 1 ♂; 25.v.–15.vi.2010 (MT), 4 ♂♂ 6 ♀♀; 15.vi.–14.vii.2010 (MT), 48 ♂♂ 39 ♀♀, P. Chvojka & J. Macek leg. (NMPC). Járkovec, 320–365 m (113), 29.v.–20.vi.2006 (MT), 2 ♀♀; 20.vi.–10.vii.2006 (MT), 6 ♂♂ 9 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC); 1.vi.2009, 2 ♂♂ 2 ♀♀, P. Chvojka leg. (NMPC). LT Radějovka, 290 m (116), 20.vi.2006, 2 ♂♂ 4 ♀♀, P. Chvojka leg. (NMPC). Radějovka, 270 m (117), 20.vi.2006, 1 ♀, P. Chvojka leg. (NMPC). Mandát, 350 m (123), 14.v.–4.vi.2008 (MT), 1 ♂ 2 ♀♀; 4.vi.–26.vi.2008 (MT), 4 ♀♀; 26.vi.–15.vii.2008 (MT), 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). RT Mandát, spring area, 400–415 m (124), 4.vi.–26.vi.2008 (MT), 5 ♂♂ 30 ♀♀; 15.vii.–5.viii.2008 (MT), 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Mandát, 265 m (125), 19.vi.2006, 1 ♀, P. Chvojka leg. (NMPC). Rybnický potok, 410–445 m (135), 2.viii.–22.viii.2007 (MT), 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Rybnický potok, 380–400 m (136), 14.vi.–13.vii.2010 (MT), 18 ♂♂ 28 ♀♀; 13.vii.–10.viii.2010 (MT), 3 ♂♂ 3 ♀♀, P. Chvojka & J. Macek leg. (NMPC). RT Lukšinka, 420–435 m (154), 27.vi.2010, 1 ♂, P. Komzák leg. (JBBC). Lukšinka, 375 m (155), 27.vi.2010, 1 ♂; 1.viii.2010, 1 ♀, leg. P. Komzák. RT Rokytenka, right branch, 400 m (169), 14.vii.2009, 1 ♂, P. Chvojka leg. (NMPC). RT Vlára, source area, 420 m (222), 18.vi.2010, 1 ♀, P. Chvojka leg. (NMPC). RT Vlárka, spring areas, 460–550 m (244), 5.vi.2010, 1 ♂ 4 ♀♀, P. Chvojka leg. (NMPC). LT Drietomice, spring areas and brooks, 550–600 m (251), 4.vi.2007, 1 ♂; 5.viii.2007, 1 ♂, P. Komzák leg. (JBBC). LT Krátkovský potok, spring area, 485 m (262), 27.vi.2008, 1 ♀, P. Komzák leg. (JBBC). LT Hrubár, 440 m (297), 31.vii.2010, 1 ♀, P. Komzák leg. (JBBC). RT Hrubár, 480–500 m (298), 9.vii.2010, 1 ♂ 1 ♀, P. Chvojka leg. (NMPC). Klanečnice, 450 m (308), 2.vi.2007, 1 ♂ 2 ♀♀, P. Komzák leg. (JBBC). LT Klanečnice, spring areas, 440–490 m (309), 2.vi.2007, 1 ♂; 23.vi.2007, 2 ♀♀, P. Komzák leg. (JBBC). RT Klanečnice, 460–500 m (312), 2.vi.2007, 3 ♂♂ 2 ♀♀, P. Komzák leg. (JBBC). RT Klanečnice, 460–500 m (312), 25.v.–15.vi.2010 (MT), 4 ♂♂ 10 ♀♀; 15.vi.–9.vii.2010 (MT), 74 ♂♂ 211 ♀♀, P. Chvojka & J. Macek leg. (NMPC). LT Klanečnice, brook and spring area, 440–480 m (325), 15.vi.2010, 1 ♂, P. Chvojka leg. (NMPC). LT Klanečnice, spring area, 430 m (326), 15.vi.2010, 1 ♀, P. Chvojka leg. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: A very common species in the area, in contrast with other regions (faunistic districts) of the Czech Republic. **Red List status:** VU.

Comments. A Transpalaeartic species, in Europe missing only in the Iberian peninsula. It inhabits small watercourses at different altitudes, often in habitats with organic substratum.

Nemoura cambrica Stephens, 1836

Recent material examined. Kladenska, 390 m (22), 21.iv.–13.v.2008 (MT), 2 ♂♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). LT Velička, spring area, 570–620 m (64), 19.v.2005 (MT), 1 ♂, 19.v.–7.vi.2005, 15 ♂♂; 7.vi.–28.vi.2005 (MT), 2 ♂♂; 28.vi.–25.vii.2005 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). LT Kamenný potok, 510–550 m (70), 29.vi.2005, 3 ♂♂, P. Chvojka leg. (NMPC). LT Velička, spring of right branch, 675 m (74), 5.vi.2009, 1 ♂, P. Chvojka leg. (NMPC). LT Velička, right branch, 600 m (75), 5.vi.2009, 6 ♂♂, P. Chvojka leg. (NMPC). LT Velička, 355–360 m (94), 6.iv.–12.v.2009 (MT), 8 ♂♂; 12.v.–2.vi.2009 (MT), 3 ♂♂; 2.vi.–25.vi. 009 (MT), 2 ♂♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Járkovec, 320–365 m (113), 19.iv.–10.v.2006 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). LT Myjava, 630 m (131), 14.vi.2010, 4 ♂♂, P. Chvojka leg. (NMPC). Rybnický potok, 410–445 m (135), 12.iv.–9.v.2007 (MT), 1 ♂; 9.v.–28.v.2007 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). RT Sviborka, 390–425 m (142), 24.vi.2008, 1 ♂, P. Chvojka leg. (NMPC). LT Rakové, 500–510 m (185), 11.vi.2005, 1 ♂, P. Chvojka leg. (NMPC). LT Brumovka, spring areas, 430–460 m (197), 21.iv.–12.v.2006 (MT), 4 ♂♂; 12.v.–5.vi.2006 (MT), 3 ♂♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). LT Brumovka, 400–430 m (198), 30.iv.2006, 3 ♂♂, J. Bojková leg. (JBBC); 21.v.2006, 2 ♂♂, P. Komzák leg. (JBBC). Hrušovka, wetland, 520 m (204), 10.vi.2005, 1 ♂, P. Chvojka leg. (NMPC). Bukový potok, spring area, 600 m (226), 5.v.–24.v.2010 (MT), 5 ♂♂; 24.v.–16.vi.2010 (MT), 1 ♂; 16.vi.–4.vii.2010 (MT), 1 ♂, P. Chvojka & J. Macek leg. (NMPC). RT Vlárka, 430–470 m (243), 6.iv.–5.v.2010 (MT), 4 ♂♂, 25.v.–16.vi.2010 (MT), 1 ♂; P. Chvojka & J. Macek leg.

Stoneflies (Plecoptera)

(NMPC). LT Krátkovský potok, spring area, 485 m (262), 31.v.2008, 1 ♂, P. Komzák leg. (JBBC). Hrnčarův potok, 470–485 m (268), 30.v.2009, 1 ♂, P. Komzák leg. (JBBC). Soliskový potok, 580–590 m (292), 9.v.2008, 3 ♂♂; 22.v.2010, 1 ♂; 1.vi.2008, 2 ♂♂, P. Komzák leg. (JBBC). Zlatný potok, 550–590 m (299), 9.v. 2008, 1 ♂; 1.vi.2008, 1 ♂, P. Komzák leg. (JBBC). Zlatný potok, 430–450 m (304), 9.v.2008, 3 ♂♂, P. Komzák leg. (JBBC). RT Klanečnice, 460–500 m (312), 8.iv.–5.v.2010 (MT), 1 ♂; 5.v.–25.v.2010 (MT), 2 ♂♂; 25.v.–15.vi.2010 (MT), 1 ♂, P. Chvojka & J. Macek leg. (NMPC). Svinárský potok, 560–590 m (314), 19.v.2005 (MT), 15 ♂♂; 19.v.–7.vi.2005 (MT), 21 ♂♂; 7.vi.–29.vi.2005 (MT), 6 ♂♂; 29.vi.–27.vii.2005 (MT), 8 ♂♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common in various running water habitats. **Red List status:** –.

Comments. A European species missing in Fennoscandia and eastern European lowlands. It is generally common and inhabits various running water habitats from montane to planar zones.

Nemoura carpathica Illies, 1963

Published records. BOJKOVÁ & ŠPAČEK (2006): spring area near Hubertova bouda hut, Nová Lhota-Vápenky. (7171b4); Velička, upper section, Velká Javořina Mt., Strání (7172a3); Svinárský potok N of Velká Javořina Mt., Strání (7172a3).

Recent material examined. LT Rakové, spring areas and brooklets, 600–670 m (184), 11.v.–6.vi.2006 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: A very rare species occurring only in the streams of the Velká Javořina Mt. and Ploštiny hill. **Red List status:** –.

Comments. A Carpathian and Anatolian species (ZWICK 1971). In the Czech Republic, it is rare and restricted to brooks in the montane zone of the Beskydy [Beskids] and the Bílé Karpaty Mts. (BOJKOVÁ & ŠPAČEK 2006).

Nemoura cinerea (Retzius, 1783)

Published records. JURAJDA *et al.* (2000): Drietomica above confluence with Krátkovský potok (7073).

Unpublished historical records. Radějovka stream above Radějov, 275 m a.s.l. (7170), 18.vi.1958, 1 ♀, J. Raušer leg. (JRBC).

Recent material examined. Kolelač, 335 m (10), 23.v.2010, 2 ♂♂ 2 ♀♀; 27.vi.2010, 1 ♀, P. Komzák leg. (JBBC). Bojkovice reservoir (12), 23.v.2010, 1 ♂, P. Komzák leg. (JBBC). Kolelač, 295 m (13), 26.vi.2010, 1 ♀, P. Komzák leg. (JBBC). Koménka, 275 m (19), 4.v.2009, 1 ♂, P. Komzák leg. (JBBC). Kladenska, 390 m (22), 13.v.–3.vi.2008 (MT), 2 ♀♀; 3.vi.–23.vi.2008 (MT), 1 ♂ 8 ♀♀; 23.vi.–16.vii.2008 (MT), 8 ♀♀; 16.vii.–4.viii.2008 (MT), 1 ♂ 5 ♀♀; 4.viii.–24.viii.2008 (MT), 5 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Třešňůvka, 310 m (23), 26.vi.2010, 2 ♀♀, P. Komzák leg. (JBBC). Kladenska, 245 m (26), 4.v.2009, 7 ♂♂, P. Komzák leg. (JBBC). Luhačovický potok, 325 m (27), 1.viii.2010, 1 ♂, P. Chvojka leg. (NMPC). LT Luhačovický potok, 330 m (29), 23.v.2010, 1 ♂ 1 ♀, P. Komzák leg. (JBBC). Pivný potok, spring brooks, 550–560 m (39), 22.v.2010, 4 ♂♂ 4 ♀♀, P. Komzák leg. (JBBC). Pivný potok, 390 m (41), 22.v.2010, 5 ♂♂ 5 ♀♀; 26.vi.2010, 1 ♂ 3 ♀♀, P. Komzák leg. (JBBC). Lubná, 325 m (42), 4.vi.2007, 1 ♂, P. Komzák leg. (JBBC). Korytnice, 345 m (45), 25.v.2010, 1 ♂; 16.vi.2010, 4 ♀♀, P. Komzák leg. (JBBC). Korytnice, 290 m (46), 22.v.2010, 3 ♂♂ 1 ♀; 26.vi.2010, 1 ♂ 4 ♀♀, P. Komzák leg. (JBBC). Okluky, 350–370 m (51), 29.vii.2009, 1 ♀, P. Komzák leg. (JBBC). Boršický potok, 370–420 m (54), 27.vi.2009, 1 ♀, P. Komzák leg. (JBBC). Boršický potok, 320 m (55), 27.vi.2009, 1 ♀, P. Komzák leg. (JBBC). Bozatinský potok, 350 m (57), 6.vi.2005, 1 ♂ 2 ♀♀, P. Chvojka leg. (NMPC). Velička, spring area, upper section, 850–900 m (58), 23.vi.2009, 1 ♀, P. Chvojka leg. (NMPC). LT Velička, 700 m (62), 28.vii.2005, 1 ♂, P. Chvojka leg. (NMPC). RT Kamenný potok, spring

area, 560 m (71), 2.viii.2004, 1 ♂, P. Komzák leg. (JBBC). LT Velička, 435 m (82), 12.v.–3.vi.2009 (MT), 2 ♀♀; 3.vi.–22.vi.2009 (MT), 4 ♀♀; 22.vi.–15.vii.2009 (MT), 11 ♀♀; 24.viii.–16.ix.2009 (MT), 9 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). RT Velička, 450 m (84), 12.v.–3.vi.2009 (MT), 1 ♀; 3.vi.–22.vi.2009 (MT), 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Kazivec, 460–485 m (87), 30.v.2009, 2 ♂♂ 2 ♀♀; 27.vi.2009, 2 ♀♀; 29.vii.2009, 3 ♀♀, P. Komzák leg. (JBBC). LT Velička, 355–360 m (94), 12.v.–2.vi.2009 (MT), 1 ♂ 1 ♀; 2.vi.–25.vi.2009 (MT), 6 ♂♂ 26 ♀♀; 25.vi.–15.vii.2009 (MT), 46 ♀♀; 15.vii.–5.viii.2009 (MT), 13 ♀♀; 5.viii.–24.viii.2009 (MT), 1 ♂ 2 ♀♀; 14.ix.–22.x.2009 (MT), 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Zahrady pod Hájem NNR, 360 m (102), 12.v.–2.vi.2005 (MT), 1 ♂; 2.vi.–25.vi.2005 (MT), 4 ♂♂ 7 ♀♀; 25.vi.–15.vii.2005 (MT), 1 ♂; 15.vii.–6.viii.2005 (MT), 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Kuželovský potok, 212 m (106), 4.v.2009, 1 ♂ 2 ♀♀, P. Komzák leg. (JBBC). Radějovka, 355–360 m (108), 1.vi.2009, 7 ♀♀, P. Chvojka leg. (NMPC); 7.iv.–5.v.2010 (MT), 10 ♂♂ 8 ♀♀; 5.v.–25.v.2010 (MT), 41 ♂♂ 53 ♀♀; 25.v.–15.vi.2010 (MT), 21 ♂♂ 143 ♀♀; 15.vi.–14.vii.2010 (MT), 4 ♂♂ 235 ♀♀; 12.viii.–9.ix.2010 (MT), 2 ♀♀, P. Chvojka & J. Macek leg. (NMPC). Járkovec, 320–365 m (113), 29.v.–20.vi.2006 (MT), 2 ♂♂ 161 ♀♀; 10.vii.–31.vii.2006 (MT), 1 ♂; 31.vii.–21.viii.2006 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Radějovka, 175 m (119), 29.iv.2005, 6 ♂♂ 2 ♀♀; 8.vi.2005, 1 ♂, P. Chvojka leg. (NMPC). Mandát, 350 m (123), 27.iii.–22.iv.2008 (MT), 4 ♂♂ 5 ♀♀; 22.iv.–14.v.2008 (MT), 28 ♂♂ 32 ♀♀; 14.v.–4.vi.2008 (MT), 11 ♂♂ 13 ♀♀; 4.vi.–26.vi.2008 (MT), 1 ♂ 61 ♀♀; 15.vii.–5.viii.2008 (MT), 3 ♂♂ 23 ♀♀; 5.viii.–26.viii.2008 (MT), 1 ♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). RT Mandát, spring area, 400–415 m (124), 22.iv.–14.v.2008 (MT), 1 ♂; 26.vi.–15.vii.2008 (MT), 2 ♂♂ 9 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Sudoměřický potok, 220 m (127), 8.vi.2005, 1 ♂, P. Chvojka leg. (NMPC). Rybnický potok, 410–445 m (135), 9.v.–28.v.2007 (MT), 3 ♂♂ 1 ♀; 28.v.–18.vi.2007 (MT), 6 ♂♂ 2 ♀♀; 18.vi.–9.vii.2007 (MT), 3 ♂♂ 1 ♀; 9.vii.–2.viii.2007 (MT), 1 ♂ 3 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Rybnický potok, 380–400 m (136), 5.v.–24.v.2010 (MT), 2 ♂♂; 14.vi.–13.vii.2010 (MT), 41 ♂♂ 544 ♀♀; 13.vii.–10.viii.2010 (MT), 2 ♂♂ 80 ♀♀; 10.viii.–7.ix.2010 (MT), 1 ♂ 4 ♀♀, P. Chvojka & J. Macek leg. (NMPC). RT Zápechová, spring area, 550 m (140), 9.vi.2005, 1 ♂, P. Chvojka leg. (NMPC). Zápechová, 520–530 m (141), 18.vi.2010, 6 ♂♂, P. Chvojka leg. (NMPC). RT Sviborka, 390–425 m (142), 24.vi.2008, 1 ♀, P. Chvojka leg. (NMPC). RT Lukšinka, 420–435 m (154), 27.vi.2010, 4 ♀♀, P. Komzák leg. (JBBC). Sviborka, 350–355 m (145), 25.v.2006, 3 ♀♀, P. Komzák leg. (JBBC). Lukšinka, 375 m (155), 23.v.2010, 10 ♂♂ 6 ♀♀; 27.vi.2010, 4 ♀♀; 1.viii.2010, 4 ♀♀, P. Komzák leg. (JBBC). LT Lipovský potok, 415 m (157), 23.v.2010, 3 ♂♂ 3 ♀♀, P. Komzák leg. (JBBC). Lipovský potok, 370 m (158), 23.v.2010, 2 ♂♂ 6 ♀♀, P. Komzák leg. (JBBC). LT Nedašovka, 580–610 m (203), 18.vi.2010, 1 ♀, P. Chvojka leg. (NMPC). Hrušovka, wetland, 520 m (204), 10.vi.2005, 1 ♂, P. Chvojka leg. (NMPC). Bukový potok, spring area, 600 m (226), 16.vi.–4.vii.2010 (MT), 1 ♂; 4.vii.–11.viii.2010 (MT), 1 ♂, P. Chvojka & J. Macek leg. (NMPC). Vlářka, 530–550 m (239), 17.vi.2010, 1 ♀, P. Chvojka leg. (NMPC). RT Vlářka, spring area, 530–550 m (241), 16.vi.2010, 1 ♀, P. Chvojka leg. (NMPC). RT Vlářka, 430–470 m (243), 16.vi.–5.vii.2010 (MT), 1 ♂ 2 ♀♀, P. Chvojka & J. Macek leg. (NMPC). LT Drietomice, spring areas and brooks, 550–600 m (251), 4.vi.2007, 2 ♂♂ 6 ♀♀, P. Komzák leg. (JBBC). LT Drietomice, wetland and brooklet, 438 m (256), 24.vi.2007, 1 ♂ 2 ♀♀, P. Komzák leg. (JBBC). RT Krátkovský potok, spring brook, 585 m (259), 31.v.2008, 1 ♀, P. Komzák leg. (JBBC). LT Hrnčarův potok, spring area and brooklet, 490 m (269), 31.v.2008, 2 ♀♀, P. Komzák leg. (JBBC). LT Žitkovský potok, spring areas, 460–520 m (275), 11.vii.–31.vii.2007 (MT), 2 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). LT Predpolomský potok, spring area and brooklet, 630–650 m (283), 4.vi.2007, 2 ♀♀, P. Komzák leg. (JBBC). Hrubár, 560–570 m (289), 25.vi.2008, 2 ♂♂, P. Chvojka leg. (NMPC). Soliskový potok, 580–590 m (292), 26.vi.2010, 1 ♂ 1 ♀, P. Komzák leg. (JBBC). Hrubár, 435 m (295), 9.v.2008, 1 ♀, P. Komzák leg. (JBBC). LT Hrubár, 440 m (297), 31.vii.2010, 1 ♀, P. Komzák leg. (JBBC). Zlatný potok, 430–450 m (304), 9.v.2008, 1 ♂, P. Komzák leg. (JBBC). Hrubár, 365–370 m (305), 1.vi.2008, 1 ♀, P. Komzák leg. (JBBC). Klanečnice, 450 m (308), 2.vi.2007, 3 ♂♂ 2 ♀♀; 23.vi.2007, 2 ♀♀, P. Komzák leg. (JBBC). LT Klanečnice, spring areas, 440–490 m (309), 23.vi.2007, 1 ♂, P. Komzák leg. (JBBC). RT Klanečnice, 460–500 m (312), 7.v.2007, 1 ♂ 9 ♀♀, P. Komzák leg. (JBBC); 5.v.–25.v.2010 (MT), 2 ♂♂; 25.v.–15.vi.2010 (MT), 9 ♂♂ 366 ♀♀; 15.vi.–9.vii.2010 (MT), 87 ♂♂ 695 ♀♀; 12.viii.–9.ix.2010 (MT), 1 ♂ 15 ♀♀, P. Chvojka & J. Macek leg. (NMPC). Svinárský potok, 560–590 m (314), 29.viii.–20.ix.2005 (MT), 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). LT Svinárský potok, spring area, 460 m (322), 7.v.2007, 17 ♂♂ 11 ♀♀; 23.vi.2007, 1 ♂, P. Komzák leg. (JBBC). LT Klanečnice, spring area, 430 m (326), 15.vi.2010, 1 ♀, P. Chvojka leg. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: *N. cinerea* is the most common and abundant species of the Plecoptera in the area, hundreds of specimens were collected into Malaise traps. **Red List status:** –.

Comments. A Euro-Siberian species distributed also in the Near East. A very common, ubiquitous species, occurring in various types of running water habitats and also in standing waters.

Nemoura flexuosa Aubert, 1949

Unpublished historical records. Olšava stream above Pitín, 375 m a.s.l. (6973), 23.iv.1958, 3 ♂♂; Radějovka stream above Radějov, 275 m a.s.l. (7170), 23.iv.1958, 4 ♂♂. Both J. Raušer leg. (JRBC).

Recent material examined. Velička, 470–480 m (68), 7.vi.2005, 2 ♂, P. Chvojka leg. (NMPC). LT Velička, 435 m (82), 7.iv.–12.v.2009 (MT), 5 ♂♂; 12.v.–3.vi.2009 (MT), 2 ♂♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). RT Velička, 450 m (84), 7.iv.–12.v.2009 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). LT Velička, 355–360 m (94), 6.iv.–12.v.2009 (MT), 7 ♂♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Járkovec, 320–365 m (113), 10.v.–29.v.2006 (MT), 3 ♂♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Mandát, 350 m (123), 27.iii.–22.iv.2008 (MT), 2 ♂♂; 22.iv.–14.v.2008 (MT), 2 ♂♂; 14.v.–4.vi.2008 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Rybnický potok, 410–445 m (135), 12.iv.–9.v.2007 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Rybnický potok, 380–400 m (136), 5.v.–24.v.2010 (MT), 7 ♂♂, P. Chvojka, & J. Macek leg. (NMPC). Žitkovský potok, 360–380 m (281), 5.v.2009, 2 ♂♂, P. Komzák leg. (JBBC).

Distribution and frequency in the Bílé Karpaty PLA: Found in clear streams at 350–450 m a.s.l. **Red List status:** –.

Comments. A European-Anatolian species missing in the British Isles and the Iberian Peninsula. In the Czech Republic, it is common in clear submontane streams.

Nemoura fusca Kis, 1963

Published records. BOJKOVÁ & ŠPAČEK (2006): Velička above Hubertova bouda hut, Nová Lhota-Vápenky (7171b4); Velička, upper section, Velká Javořina Mt., Strání (7172a3); Svinárský potok N of Velká Javořina Mt., Strání (7172a3).

Recent material examined. LT Velička, spring area, 570–620 m (64), 25.vii.–9.viii.2005 (MT), 3 ♂♂; 29.viii.–22.ix.2005 (MT), 3 ♂♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). LT Velička, spring of right branch, 675 m (74), 5.vi.2009, 1 ♂, P. Chvojka leg. (NMPC). LT Velička, 435 m (82), 3.vi.2009, 1 ♂, P. Chvojka leg. (NMPC). LT Rakové, spring areas and brooklets, 600–670 m (184), 11.v.–6.vi.2006 (MT), 3 ♂♂; 6.vi.–22.vi.2006 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC); 20.v.2006, 1 ♂, P. Komzák leg. (JBBC). LT Brumovka, spring areas and brooklets, 530–570 m (189), 20.v.2006, 2 ♂♂, P. Komzák leg. (JBBC). LT Brumovka, spring areas, 430–460 m (197), 11.v.–5.vi.2006 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Bukový potok, spring area, 600 m (226), 6.iv.–5.v.2010 (MT), 3 ♂♂; 5.v.–24.v.2010 (MT), 4 ♂♂; 24.v.–16.vi.2010 (MT), 1 ♂; 16.vi.–4.vii.2010 (MT), 3 ♂♂, P. Chvojka & J. Macek leg. (NMPC). RT Vlárka, spring area, 530–550 m (241), 17.vi.2010, 1 ♂, P. Chvojka leg. (NMPC). Svinárský potok, 560–590 m (314), 27.vii.–29.viii.2005 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Found relatively often but only in montane brooks at the highest altitudes (Velká Javořina Mt., Javorník Mt., Průklesy hill, and Ploštiny hill). **Red List status:** –.

Comments. An endemic species of the Carpathians. In the Czech Republic, it is rare and found only in cold, fast-flowing, montane brooks of the Moravskoslezské Beskydy Mts. [Moravian-Silesian Beskids] and the Bílé Karpaty Mts.

Nemoura marginata Pictet, 1835

Recent material examined. LT Petrůvka, spring areas, 400 m (30), 21.iv.–13.v.2008 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Boršický potok, spring brook, 475 m (53), 30.v.2009, 1 ♂, P. Komzák leg. (JBBC). Velička, spring area, upper section, 850–900 m (58), 28.iv.–7.vi.2005 (MT), 32 ♂♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC); 19.v.2005, 2 ♂♂, P. Chvojka leg. (NMPC). LT Velička, 700 m (62), 28.vi.2005, 4 ♂♂; 28.vii.2005, 1 ♂, P. Chvojka leg. (NMPC). LT Velička, spring area, 570–620 m (64), 19.v.–7.vi.2005 (MT), 52 ♂♂; 28.vi.–25.vii.2005 (MT), 12 ♂♂; 25.vii.–9.viii.2005 (MT), 3 ♂♂; 29.viii.–22.ix.2005 (MT), 3 ♂♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). LT Kamenný potok, 510–550 m (70), 29.vi.2005, 1 ♂, P. Chvojka leg. (NMPC). LT Velička, right branch, 600 m (75), 5.vi.2009, 2 ♂♂, P. Chvojka leg. (NMPC). LT Velička, spring of left branch, 800 m (77), 5.vi.2009, 4 ♂♂, P. Chvojka leg. (NMPC). LT Velička, 355–360 m (94), 12.v.–2.vi.2009 (MT), 1 ♂; 25.vi.–15.vii.2009 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). RT Zápechová, spring area, 550 m (140), 10.vi.2005, 1 ♂, P. Chvojka leg. (NMPC). Václavský potok, spring, 480 m (161), 23.v.2010, 2 ♂♂, P. Komzák leg. (JBBC). LT Rakové, spring areas and brooklets, 600–670 m (184), 20.iv.–11.v.2006 (MT), 1 ♂; 22.vi.–13.vii.2006 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC); 20.v.2006, 4 ♂♂, P. Komzák (JBBC). Dešňanský potok, spring area, brooklet, 530–570 m (194), 20.v.2006, 1 ♂, P. Komzák leg. (JBBC). LT Brumovka, spring areas, 430–460 m (197), 21.iv.–12.v.2006 (MT), 6 ♂♂; 12.v.–5.vi.2006 (MT), 4 ♂♂; 13.vii.–31.viii.2006 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). LT Brumovka, 400–430 m (198), 30.iv.2006, 1 ♂, J. Bojková leg. (JBBC). LT Bylnička, spring area, 600 m (215), 13.vii.2009, 1 ♂, P. Chvojka leg. (NMPC). Bukový potok, spring area, 600 m (226), 6.iv.–5.v.2010 (MT), 4 ♂♂; 5.v.–24.v.2010 (MT), 9 ♂♂; 24.v.–16.vi.2010 (MT), 12 ♂♂; 16.vi.–4.vii.2010 (MT), 4 ♂♂, P. Chvojka & J. Macek leg. (NMPC). LT Drietomice, spring areas and brooks, 550–600 m (251), 24.vi.2007, 1 ♂, P. Komzák leg. (JBBC). LT Drietomice, 435–440 m (255), 17.v.2007, 1 ♂, J. Bojková leg. (JBBC). Krátkovský potok, 450–485 m (261), 8.v.2008, 1 ♂, P. Komzák leg. (JBBC). LT Krátkovský potok, spring area, 485 m (262), 31.v.2008, 1 ♂, P. Komzák leg. (JBBC). LT Žitkovský potok, spring areas, 460–520 m (275), 11.vii.–31.vii.2007 (MT), 1 ♂, P. Chvojka leg. (NMPC). LT Hrubár, spring brook, 655–660 m (290), 9.v.2008, 1 ♂, P. Komzák leg. (JBBC). LT Soliskový potok, spring area, 590 m (293), 22.v.2010, 1 ♂, P. Komzák leg. (JBBC). Zlatný potok, 550–590 m (299), 9.v.2008, 2 ♂, P. Komzák leg. (JBBC). RT Zlatný potok, spring area, 630 m (300), 1.vi.2008, 1 ♂, P. Komzák leg. (JBBC). Svinárský potok, 560–590 m (314), 19.v.2005 (MT), 6 ♂♂; 19.v.–7.vi.2005 (MT), 1 ♂; 7.vi.–29.vi.2005 (MT), 2 ♂♂; 29.vi.–27.vii.2005 (MT), 4 ♂♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: A common inhabitant of forest springs, calcareous spring fens, and small brooks with a groundwater supply. **Red List status:** –.

Comments. A southern and central European species occurring also in the Near East and reaching the northern limit of its distribution in the Hercynian mountains. It is generally common in springs and small brooks, especially in the submontane zone.

Nemoura sciurus Aubert, 1949

(VU)

Recent material examined. Koménka, 375 m (16), 22.v.2010, 1 ♂, P. Komzák leg. (JBBC). Kladenska, 390 m (22), 26.iii.–21.iv.2008 (MT), 14 ♂♂; 21.iv.–13.v.2008 (MT), 45 ♂♂; 13.v.–3.vi.2008 (MT), 8 ♂♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). LT Petrůvka, spring areas, 400 m (30), 26.iii.–21.iv.2008 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Nivnička, 480 m (38), 22.v.2010, 4 ♂♂, P. Komzák leg. (JBBC). LT Velička, 435 m (82), 7.iv.–12.v.2009 (MT), 9 ♂♂; 12.v.–3.vi.2009 (MT), 5 ♂♂, P. Chvojka, J. Ježek & J.

Stoneflies (Plecoptera)

Macek leg. (NMPC). LT Velička, 355–360 m (94), 6.iv.–12.v.2009 (MT), 13 ♂♂; 12.v.–2.vi.2009 (MT), 3 ♂♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Radějovka, 355–360 m (108), 7.iv.–5.v.2010 (MT), 1 ♂; 5.v.–25.v.2010 (MT), 2 ♂♂; 15.vi.–14.vii.2010 (MT), 1 ♂, P. Chvojka & J. Macek leg. (NMPC). Járkovec, 320–365 m (113), 10.v.–29.v.2006 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Mandát, 350 m (123), 27.iii.–22.iv.2008 (MT), 7 ♂♂; 22.iv.–14.v.2008 (MT), 1 ♂; 14.v.–4.vi.2008 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). RT Mandát, spring area, 400–415 m (124), 22.iv.–14.v.2008 (MT), 2 ♂♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Rybnický potok, 410–445 m (135), 12.iv.–9.v.2007 (MT), 2 ♂♂; 9.v.–28.v.2007 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Rybnický potok, 380–400 m (136), 7.iv.–5.v.2010 (MT), 33 ♂♂ 31 ♀♀; 5.v.–24.v.2010 (MT), 34 ♂♂ 186 ♀♀, P. Chvojka & J. Macek leg. (NMPC). Sviborka, 350–355 m (145), 25.v.2006, 1 ♂, P. Komzák leg. (JBBC). LT Lipovský potok, 415 m (157), 23.v.2010, 1 ♂, P. Komzák leg. (JBBC). LT Rakové, spring areas and brooklets, 600–670 m (184), 20.iv.–11.v.2006 (MT), 2 ♂♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Dešňanský potok, spring area, brooklet, 530–570 m (194), 20.v.2006, 1 ♂, P. Komzák leg. (JBBC). LT Brumovka, spring areas, 430–460 m (197), 5.vi.–23.vi.2006 (MT), 1 ♂; 11.v.–5.vi.2006 (MT), 4 ♂♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Bukový potok, spring area, 600 m (226), 6.iv.–5.v.2010 (MT), 1 ♂; 5.v.–24.v.2010 (MT), 1 ♂, P. Chvojka & J. Macek leg. (NMPC). RT Vlárka, 430–470 m (243), 6.iv.–5.v.2010 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). LT Drietomice, 435–440 m (255), 17.v.2007, 7 ♂♂, J. Bojková leg. (JBBC). Krátkovský potok, 450–485 m (261), 8.v.2008, 6 ♂♂, P. Komzák leg. (JBBC). LT Hrubár, spring brook, 655–660 m (290), 9.v.2008, 5 ♂♂, P. Komzák leg. (JBBC). Soliskový potok, 580–590 m (292), 9.v.2008, 1 ♂; 22.v.2010, 2 ♂♂, P. Komzák leg. (JBBC). LT Soliskový potok, spring area, 590 m (293), 22.v.2010, 3 ♂♂, P. Komzák leg. (JBBC). Zlatný potok, 550–590 m (299), 9.v.2008, 2 ♂♂, P. Komzák leg. (JBBC). Zlatný potok, 430–450 m (304), 9.v.2008, 1 ♂, P. Komzák leg. (JBBC). RT Klanečnice, 460–500 m (312), 5.v.–25.v.2010 (MT), 1 ♂; 25.v.–15.vi.2010 (MT), 1 ♂, P. Chvojka & J. Macek leg. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: A widespread species, frequent mainly at lower altitudes. **Red List status:** VU.

Comments. A central European species; in the Czech Republic, it is found largely in small brooks and springs of the colline zone, but it occurs in the submontane zone as well. It is generally infrequent; there are only few records from Bohemia (KŘELINOVÁ 1962, BOJKOVÁ *et al.* 2010) and relatively more data from Moravia, especially the Moravian Karst, the Chřiby Mts. (RAUŠER 1964a; M. Straka, unpubl.), and the Moravian-Slovak borderland (BOJKOVÁ & HELEŠIC 2009), where it is more common.

Nemoura spp.

Unpublished historical records. Olšava stream above Pitín, 375 m a.s.l. (6973), 15.x.1958, 2 L, J. Raušer leg. (JRBC).

Recent material examined. Kladenka, 390 m (22), 26.iii.–21.iv.2008 (MT), 21 ♀♀; 21.iv.–13.v.2008 (MT), 134 ♀♀; 13.v.–3.vi.2008 (MT), 56 ♀♀; 3.vi.–23.vi.2008 (MT), 5 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Gáborka, 280 m (35), 23.v.2010, 1 ♀, P. Komzák leg. (JBBC). Nivnička, spring area, 580 m (37), 22.v.2010, 4 ♀♀, P. Komzák leg. (JBBC). LT Velička, 435 m (82), 7.iv.–12.v.2009 (MT), 41 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Velička, spring area, upper section, 850–900 m (58), 28.iv.–7.vi.2005 (MT), 56 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC); 4.vi.2009, 1 ♀, P. Chvojka leg. (NMPC). LT Velička, 700 m (62), 7.vi.2005, 98 ♀♀, P. Chvojka leg. (NMPC). LT Velička, spring area, 570–620 m (64), 7.vi.2005 (MT), 145 ♀♀; 7.vi.–28.vi.2005 (MT), 4 ♀♀; 25.vii.–9.viii.2005 (MT), 14 ♀♀; 29.viii.–22.ix.2005 (MT), 11 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). 4.vi.2009, 3 ♀♀, P. Chvojka leg. (NMPC). Velička, 470–480 m (68), 7.vi.2005, 2 ♀♀; 28.vi.2006, 3 ♀♀, P. Chvojka leg. (NMPC). LT Kamenný potok, 620–650 m (69), 4.vi.2009, 3 ♀♀, P. Chvojka leg. (NMPC). LT Kamenný potok, 510–550 m (70), 29.vi.2005, 8 ♀♀, P. Chvojka leg. (NMPC). LT Velička, spring of right branch, 675 m (74), 5.vi.2009, 2 ♀♀, P. Chvojka leg. (NMPC). LT Velička, right branch, 600 m (75), 5.vi.2009, 12 ♀♀, P. Chvojka leg. (NMPC). LT Velička, spring of left branch, 800 m (77), 5.vi.2009, 5 ♀♀, P. Chvojka leg. (NMPC). LT Velička, brooklet and spring area,

520–540 m (80), 23.vi.2009, 1 ♀, P. Chvojka leg. (NMPC). LT Velička, 435 m (82), 7.iv.–12.v.2009 (MT), 41 ♀♀; 12.v.–3.vi.2009 (MT), 22 ♀♀; 3.vi.–22.vi.2009 (MT), 7 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). RT Velička, 450 m (84), 22.vi.–15.vii.2009 (MT), 2 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). LT Velička, 355–360 m (94), 6.iv.–12.v.2009 (MT), 20 ♀♀; 12.v.–2.vi.2009 (MT), 9 ♀♀; 2.vi.–25.vi.2009 (MT), 23 ♀; 25.vi.–15.vii.2009 (MT), 3 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Velička, 325–350 m (95), 3.vi.2009, 1 ♀, P. Chvojka leg. (NMPC). Hrubý potok, 455 m (97), 14.vi.2010, 2 ♀♀, P. Chvojka leg. (NMPC). Hrubý potok, 340–370 m (101), 25.vii.2005, 2 ♀♀, P. Chvojka leg. (NMPC). LT Járkovec, spring area, 450–470 m (112), 11.vii.2006, 4 ♀♀, P. Chvojka leg. (NMPC). Mandát, 350 m (123), 27.iii.–22.iv.2008 (MT), 1 ♀; 22.iv.–14.v.2008 (MT), 5 ♀♀; 14.v.–4.vi.2008 (MT), 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). RT Mandát, spring area, 400–415 m (124), 22.iv.–14.v.2008 (MT), 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Mandát, 265 m (125), 19.vi.2006, 3 ♀♀, P. Chvojka leg. (NMPC). Sudoměřický potok, 190 m (129), 19.vi.2006, 1 ♀; 12.vii.2006, 1 ♀, P. Chvojka leg. (NMPC). Myjava, 580–650 m (130), 14.vi.2010, 1 ♀, P. Chvojka leg. (NMPC). LT Myjava, 630 m (131), 14.vi.2010, 1 ♀, P. Chvojka leg. (NMPC). Rybnický potok, 380–400 m (136), 14.vi.–13.vii.2010 (MT), 8 ♀♀, P. Chvojka & J. Macek leg. (NMPC). Zápechová, 520–530 m (141), 18.vi.2010, 1 ♀, P. Chvojka leg. (NMPC). RT Sviborka, 390–425 m (142), 24.vi.2008, 1 ♀, P. Chvojka leg. (NMPC). LT Vlára, 450 m (150), 27.v.2010, 2 ♀♀, P. Chvojka leg. (NMPC). Lipovský potok, 370 m (158), 23.v.2010, 1 ♀, P. Komzák leg. (JBBC). Václavský potok, spring, 480 m (161), 23.v.2010, 3 ♀♀, P. Komzák leg. (JBBC). LT Václavský potok, spring area, 490 m (162), 23.v.2010, 1 ♀, P. Komzák leg. (JBBC). LT Rakové, spring areas and brooklets, 600–670 m (184), 20.v.2006, 7 ♀♀, P. Komzák leg. (JBBC). LT Brumovka, spring areas and brooklets, 530–570 m (189), 20.v.2006, 9 ♀♀, P. Komzák leg. (JBBC). RT Brumovka, spring area, 450 m (193), 25.vi.2008, 1 ♀, P. Chvojka leg. (NMPC). Dešňanský potok, spring area, brooklet, 530–570 m (194), 20.v.2006, 5 ♀♀, P. Komzák leg. (JBBC). LT Brumovka, spring areas, 430–460 m (197), 20.iv.2006, 1 ♀, P. Chvojka leg. (NMPC). Bukový potok, spring area, 600 m (226), 6.iv.–5.v.2010 (MT), 13 ♀♀; 5.v.–24.v.2010 (MT), 21 ♀♀; 24.v.–16.vi.2010 (MT), 86 ♀♀; 16.vi.–4.vii.2010 (MT), 19 ♀♀; 4.vii.–11.viii.2010 (MT), 1 ♀, P. Chvojka & J. Macek leg. (NMPC). Vlárka, 530–550 m (239), 17.vi.2010, 1 ♀, P. Chvojka leg. (NMPC). RT Vlárka, spring areas and brooks, 540–560 m (242), 5.vii.2010, 2 ♀♀, P. Chvojka & J. Macek leg. (NMPC). RT Vlárka, 430–470 m (243), 6.iv.–5.v.2010 (MT), 6 ♀♀; 5.v.–25.v.2010 (MT), 6 ♀♀; 25.v.–16.vi.2010 (MT), 1 ♀, P. Chvojka & J. Macek leg. (NMPC). LT Drietomice, 620–650 m (249), 8.vii.2010, 1 ♀, P. Chvojka leg. (NMPC). LT Drietomice, spring areas and brooks, 550–600 m (251), 4.vi.2007, 1 ♀; 24.vi.2007, 2 ♀♀, P. Komzák leg. (JBBC). LT Drietomice, wetland and brooklet, 438 m (256), 24.vi.2007, 1 ♀, P. Komzák leg. (JBBC). Drietomice, 360–390 m (258), 4.vi.2007, 4 ♀♀, P. Komzák leg. (NMPC). Krátkovský potok, 450–485 m (261), 8.v.2008, 5 ♀♀; 31.v.2008, 5 ♀♀, P. Komzák leg. (JBBC). LT Krátkovský potok, spring area, 485 m (262), 31.v.2008, 8 ♀♀, P. Komzák leg. (JBBC). Krátkovský potok, 420 m (267), 4.vi.2007, 3 ♀♀, P. Komzák leg. (JBBC). Vlčí potok, 440 m (272), 31.v.2008, 1 ♀, P. Komzák leg. (JBBC). LT Žitkovský potok, spring areas, 460–520 m (275), 11.iv.–9.iv.2007 (MT), 2 ♀♀; 10.v.–29.v.2007 (MT), 3 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Žitkovský potok, 360–380 m (281), 5.v.2009, 3 ♀♀, P. Komzák leg. (JBBC). LT Hrubár, spring brook, 655–660 m (290), 9.v.2008, 13 ♀♀; 1.vi.2008, 10 ♀♀, P. Komzák leg. (JBBC). Soliskový potok, 680–780 m (291), 28.vi.2008, 1 ♀, P. Komzák leg. (JBBC). Soliskový potok, 580–590 m (292), 9.v.2008, 12 ♀♀; 1.vi.2008, 3 ♀♀; 22.v.2010, 5 ♀♀, P. Komzák leg. (JBBC). LT Soliskový potok, spring area, 590 m (293), 1.vi.2008, 1 ♀; 22.v.2010, 8 ♀♀, P. Komzák leg. (JBBC). Zlatný potok, 550–590 m (299), 9.v.2008, 1 ♀; 1.vi.2008, 4 ♀♀, P. Komzák leg. (JBBC). Zlatný potok, 430–450 m (304), 1.vi.2008, 2 ♀♀, P. Komzák leg. (JBBC). RT Klanečnice, spring section, 650 m (311), 23.vi.2007, 2 ♀♀, P. Komzák leg. (JBBC). RT Klanečnice, 460–500 m (312), 2.vi.2007, 1 ♀, P. Komzák leg. (JBBC); 5.v.–25.v.2010 (MT), 15 ♀♀; 25.v.–15.vi.2010 (MT), 10 ♀♀; 15.vi.–9.vii.2010 (MT), 7 ♀♀, P. Chvojka & J. Macek leg. (NMPC). Svinárský potok, 560–590 m (314), 7.vi.–19.v.2005 (MT), 56 ♀♀; 19.v.–7.vi.2005 (MT), 153 ♀♀; 27.vii.–29.viii.2005 (MT), 2 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC).

Comments. The above cited material includes only females and larvae which could not be identified with certainty. The identification of females in the genus is ambiguous with the exception of *N. cinerea*.

***Nemurella pictetii* Klapálek, 1900**

Recent material examined. Kladenska, 390 m (22), 21.iv.–13.v.2008 (MT), 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Boršický potok, 320 m (55), 28.ix.2009, 2 ♀♀, P. Komzák leg. (JBBC). LT Velička, 435 m (82), 7.iv.–12.v.2009 (MT), 1 ♂ 6 ♀♀; 12.v.–3.vi.2009 (MT), 6 ♀♀; 3.vi.–22.vi.2009 (MT), 3 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). LT Velička, 355–360 m (94), 12.v.–2.vi.2009 (MT), 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Járkovec, 320–365 m (113), 10.v.–29.v.2006 (MT), 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). RT Mandát, spring area, 400–415 m (124), 22.iv.–14.v.2008 (MT), 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Rybnický potok, 410–445 m (135), 6.vi.2005, 1 ♀, P. Chvojka leg. (NMPC); 9.v.–28.v.2007 (MT), 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Rybnický potok, 380–400 m (136), 5.v.–24.v.2010 (MT), 1 ♀; 10.viii.–7.ix.2010 (MT), 2 ♀♀; 7.ix.–21.x.2010 (MT), 1 ♂ 1 ♀, P. Chvojka & J. Macek leg. (NMPC). LT Rakové, spring areas and brooklets, 600–670 m (184), 6.vi.–22.vi.2006 (MT), 1 ♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). LT Brumovka, spring areas, 430–460 m (197), 5.vi.–23.vi.2006 (MT), 2 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). LT Drietomice, spring areas and brooks, 550–600 m (251), 4.vi.2007, 1 ♀, P. Komzák leg. (JBBC). LT Hrnčarův potok, spring area and brooklet, 490 m (269), 31.v.2008, 1 ♂, P. Komzák leg. (JBBC). LT Hrubár, spring brook, 655–660 m (290), 1.vi.2008, 1 ♂, P. Komzák leg. (JBBC). LT Soliskový potok, spring area, 590 m (293), 22.v.2010, 3 ♂♂ 1 ♀, P. Komzák leg. (JBBC). Hrubár, 435 m (295), 1.vi.2008, 1 ♂, P. Komzák leg. (JBBC).

Distribution and frequency in the Bílé Karpaty PLA: A frequent but never abundant species. **Red List status:** –.

Comments. A Euro-Siberian species inhabiting various types of habitats, especially swampy springs, upper stream courses supplied by groundwater, drains, spring basins, but also lakes and strongly acid waters like outlets of bogs. It is sensitive to pollution.

***Protonemura aestiva* Kis, 1965**

Published records. BOJKOVÁ & ŠPAČEK (2006): unnamed springbrook in Bílé potoky NR, Valašské Klobouky (6874c3); unnamed springbrook near Hrubý Mechnáč, Lopeník (7072d2); spring area near Hubertova bouda hut, Nová Lhota-Vápenky (7171b4); Velička above Hubertova bouda hut, Nová Lhota-Vápenky (7171b4); Svinárský potok N of Velká Javořina Mt., Strání (7172a3).

Recent material examined. Nivnička, 480 m (38), 26.vi.2010, 1 ♂, P. Komzák leg. (JBBC). Velička, spring area, upper section, 850–900 m (58), 4.vi.2009, 1 ♂, P. Chvojka leg. (NMPC). LT Velička, spring area, 570–620 m (64), 25.vii.–9.viii.2005 (MT), 3 ♀♀; 29.viii.–22.ix.2005 (MT), 11 ♂♂ 25 ♀♀; 22.ix.–27.x.2005 (MT), 4 ♂♂ 48 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Myjava, 580–650 m (130), 14.vi.2010, 1 ♂, P. Chvojka leg. (NMPC). LT Myjava, 630 m (131), 14.vi.2010, 2 ♂♂ 1 ♀, P. Chvojka leg. (NMPC). Radošínský potok, 540–570 m (139), 18.vi.2010, 1 ♂, P. Chvojka leg. (NMPC). Zápechová, 520–530 m (141), 18.vi.2010, 1 ♂, P. Chvojka leg. (NMPC). Křekovský potok, springs, 580 m (147), 17.vii.2009, 1 ♂, P. Chvojka leg. (NMPC). LT Rakové, spring areas and brooklets, 600–670 m (184), 11.v.–6.vi.2006 (MT), 3 ♂♂; 6.vi.–22.vi.2006 (MT), 6 ♂♂; 22.vi.–13.vii.2006 (MT), 4 ♂♂; 13.vii.–31.vii.2006 (MT), 7 ♂♂, 3 ♀♀; 31.vii.–23.viii.2006 (MT), 1 ♂; 20.ix.–27.x.2006 (MT), 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). LT Brumovka, spring areas and brooklets, 530–570 m (189), 31.vii.2004, 1 ♀, P. Chvojka leg. (NMPC). LT Brumovka, spring areas, 430–460 m (197), 11.v.–5.vi.2006 (MT), 2 ♂♂; 13.vii.–31.viii.2006 (MT), 2 ♂♂; 20.ix.–25.x.2006 (MT), 1 ♂ 7 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). LT Brumovka, 400–430 m (198), 23.viii.2006, 1 ♂, P. Chvojka leg. (NMPC). LT Bylnička, spring area, 600 m (215), 13.vii.2009, 1 ♂, P. Chvojka leg. (NMPC). Bukový potok, spring area, 600 m (226), 24.v.–16.vi.2010 (MT), 1 ♂; 16.vi.–4.vii.2010 (MT), 1 ♂; 4.vii.–11.viii.2010 (MT), 7 ♂♂; 11.viii.–8.ix.2010 (MT), 1 ♂; 8.ix.–23.x.2010 (MT), 1 ♂, P. Chvojka & J. Macek leg. (NMPC). RT Vlárka, spring areas and brooks, 540–560 m (242), 5.vii.2010, 1 ♂, P. Chvojka leg. (NMPC). RT Vlárka, 430–470 m (243), 16.vi.–5.vii.2010 (MT), 1 ♂; 11.viii.–8.ix.2010 (MT), 1 ♀; 8.ix.–23.x.2010 (MT), 2 ♂♂ 2 ♀♀, P. Chvojka & J. Macek leg. (NMPC). LT Drietomice, 620–650 m (249), 8.vii.2010, 1 ♂ 1 ♀, P. Chvojka leg. (NMPC). Soliskový potok, 680–780 m (291), 28.vi.2008, 1 ♂, P. Komzák leg. (JBBC). Zlatný potok, 430–450 m (304), 1.vi.2008, 1 ♂, P. Komzák leg. (JBBC). RT Klanečnice, 460–500

m (312), 8.iv.–5.v.2010 (MT), 1 ♂ 1 ♀; 15.vi.–9.vii.2010 (MT), 2 ♂♂; 12.viii.–9.ix.2010 (MT), 1 ♂ 1 ♀; 9.ix.–22.x.2010 (MT), 1 ♀, P. Chvojka & J. Macek leg. (NMPC). Svinárský potok, 670 m (313), 26.x.2005, 1 ♂, P. Chvojka leg. (NMPC). Svinárský potok, 560–590 m (314), 27.vii.–29.viii.2005 (MT), 2 ♀♀; 29.viii.–20.ix.2005 (MT), 11 ♂♂ 16 ♀♀; 20.ix.–26.x.2010 (MT), 50 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). RT Svinárský potok, 700 m (316), 4.vi.2009, 3 ♂♂ 3 ♀♀, P. Chvojka leg. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: A frequent and abundant species occurring predominantly in various spring habitats, including calcareous spring fens. **Red List status:** –.

Comments. A Balkan-Carpathian species inhabiting submontane and montane springs and brooks.

Protonemura auberti Illies, 1954

Recent material examined. LT Brumovka, spring areas, 430–460 m (197), 13.vii.–31.viii.2006 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Bukový potok, spring area, 600 m (226), 4.vii.–11.viii.2010 (MT), 1 ♂, P. Chvojka & J. Macek leg. (NMPC). LT Drietomice, spring areas and brooks, 550–600 m (251), 4.vi.2007, 1 ♂, P. Komzák leg. (JBBC). LT Drietomice, 435–440 m (255), 12.viii.2007, 1 ♂, J. Bojková leg. (JBBC).

Distribution and frequency in the Bílé Karpaty PLA: A rare species, found in the central and northern parts of the area. **Red List status:** –.

Comments. A central European species distributed in the Hercynian mountains, the Alps and the Carpathians, extending also to the Balkans. In the Czech Republic, it is common in montane and submontane springs and brooks, especially in Bohemia. It is often found in cold, small brooks with sandy bottom and a high proportion of coarse organic matter in the substratum (Bojková *et al.* 2010).

Protonemura spp.

Recent material examined. Pivný potok, spring brooks, 550–560 m (39), 26.vi.2010, 1 ♀, P. Komzák leg. (JBBC). LT Kamenný potok, 510–550 m (70), 29.vi.2005, 1 ♀, P. Chvojka leg. (NMPC). LT Velička, spring of right branch, 675 m (74), 23.vi.2009, 1 ♀, P. Chvojka leg. (NMPC). LT Velička, right branch, 600 m (75), 5.vi.2009, 1 ♀; 16.ix.2009, 3 ♀♀, P. Chvojka leg. (NMPC). LT Velička, left branch, 500 m (92), 15.ix.2009, 1 ♀, P. Chvojka leg. (NMPC). LT Bylnička, 450–550 m (218), 13.vii.2009, 1 ♀, P. Chvojka leg. (NMPC). RT Vlára, source area, 420 m (222), 18.vi.2010, 1 ♀, P. Chvojka leg. (NMPC). Drietomice, spring area, 590–620 m (247), 8.vii.2010, 1 ♀, P. Chvojka leg. (NMPC). LT Svinárský potok, spring area, 630 m (317), 29.vi.2005, 2 ♀♀, P. Chvojka leg. (NMPC).

Comments. The above cited material probably includes a mix of females of *P. auberti* and *P. aestiva* which cannot be distinguished without doubt.

Protonemura intricata (Ris, 1902)

Recent material examined. Velička, 470–480 m (68), 7.vi.2005, 1 ♀, P. Chvojka leg. (JBBC). LT Velička, 435 m (82), 12.v.–3.vi.2009 (MT), 3 ♀♀; 3.vi.–22.vi.2009 (MT), 8 ♀♀; 22.vi.–15.vii.2009 (MT), 5 ♀♀; 15.vii.–5.viii.2009 (MT), 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Velička, 400–420 m (83), 3.vi.2009, 1 ♂, P. Chvojka leg. (NMPC). LT Velička, 355–360 m (94), 3.vi.2009, 1 ♀, P. Chvojka leg. (NMPC). Vápenický potok, 360 m (180), 16.vii.2009, 1 ♂, P. Chvojka leg. (NMPC). Rakové, 440–450 m (186),

Stoneflies (Plecoptera)

11.vi.2005, 1 ♂, P. Chvojka leg. (NMPC). RT Nedašovka, 540 m (201), 1.viii.2004, 1 ♂, P. Chvojka leg. (NMPC). Vlárka, 530–550 m (239), 9.vi.2005, 2 ♀♀, P. Chvojka leg. (NMPC). LT Drietomice, wetland and brooklet, 438 m (256), 24.vi.2007, 2 ♀♀, P. Komzák leg. (JBBC). Drietomice, 360–390 m (258), 4.vi.2007, 2 ♀♀, P. Komzák leg. (JBBC). Krátkovský potok, 420 m (267), 4.vi.2007, 1 ♀, P. Komzák leg. (JBBC). Hrnčarův potok, 470–485 m (268), 30.v.2009, 1 ♀, P. Komzák leg. (JBBC). LT Hrnčarův potok, spring area and brooklet, 490 m (269), 31.v.2008, 1 ♀, P. Komzák leg. (JBBC). Soliskový potok, 580–590 m (292), 26.vi.2010, 1 ♂, P. Komzák leg. (JBBC). Svinárský potok, 560–590 m (314), 7.vi.–29.vi.2005 (MT), 1 ♂; 29.vi.–27.vii.2005 (MT), 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: A quite infrequent species found usually individually. **Red List status:** –.

Comments. A European species missing in the British Isles. It is generally very common and widespread; it inhabits various types of streams.

Protonemura praecox (Morton, 1894)

Unpublished historical records. Olšava stream above Pitín, 375 m a.s.l. (6973), 15.x.1958, 2 L, J. Raušer leg. (JRBC).

Recent material examined. LT Velička, 435 m (82), 7.iv.–12.v.2009 (MT), 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). LT Velička, 355–360 m (94), 6.iv.–12.v.2009 (MT), 3 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Rybnický potok, 380–400 m (136), 7.iv.–5.v.2010 (MT), 1 ♀; 5.v.–24.v.2010 (MT), 1 ♀, P. Chvojka & J. Macek leg. (NMPC). LT Žitkovský potok, spring areas, 460–520 m (275), 2.iv.2005 (MT), 1 ♂ 2 ♀♀, J. Bojková leg. (JBBC); 11.iv.–9.v.2007 (MT), 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Found only at four sites; however, it can be easily overlooked due to the early and relatively short period of emergence. **Red List status:** –.

Comments. Distributed in southern and central Europe and the British Isles. It inhabits small brooks of various altitudes.

Family CAPNIIDAE

Capnia bifrons (Newman, 1839)

Published records. JURAJDA *et al.* (2000): Drietomica above confluence with Krátkovský potok (7073).

Recent material examined. RT Velička, 450 m (84), 7.iv.–12.v.2009 (MT), 1 ♀, P. Chvojka leg. (NMPC). LT Velička, 355–360 m (94), 6.iv.–12.v.2009 (MT), 5 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Radějovka, 355–360 m (108), 7.iv.–5.v.2010 (MT), 2 ♀♀; 5.v.–25.v.2010 (MT), 2 ♀♀, P. Chvojka & J. Macek leg. (NMPC). Járkovec, 320–365 m (113), 19.iv.–10.v.2006 (MT), 3 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Mandát, 350 m (123), 27.iii.–22.iv.2008 (MT), 15 ♀♀; 22.iv.–14.v.2008 (MT), 2 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). RT Mandát, spring area, 400–415 m (124), 27.iii.–22.iv.2008 (MT), 4 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Rybnický potok, 410–445 m (135), 12.iv.–9.v.2007 (MT), 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Rybnický potok, 380–400 m (136), 5.v.–24.v.2010 (MT), 1 ♀, P. Chvojka & J. Macek leg. (NMPC). RT Klanečnice, 460–500 m (312), 7.v.2007, 4 ♀♀, P. Komzák leg. (JBBC). RT Klanečnice, 460–500 m (312), 8.iv.–5.v.2010 (MT), 2 ♀♀; 5.v.–25.v.2010 (MT), 7 ♀♀, P. Chvojka & J. Macek leg. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: A common species which, however, may have been partly overlooked at some sites due to the early period of emergence. **Red List status:** –.

Comments. A European species; in the Czech Republic, it occurs largely in clear brooks in the colline zone.

Family LEUCTRIDAE

Leuctra albida Kempny, 1899

Unpublished historical records. Olšava stream above Pitín, 375 m a.s.l. (6973), 17.vii.1958, 1 ♂, J. Raušer leg. (JRBC).

Recent material examined. Kazivec, 390–410 m (90), 2.viii.2004, 2 ♂♂ 9 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC); 15.ix.2009, 1 ♀, P. Chvojka leg. (NMPC). LT Velička, 355–360 m (94), 15.vii.–5.viii.2009 (MT), 2 ♀♀; 5.viii.–24.viii.2009 (MT), 2 ♂♂ 3 ♀♀; 24.viii.–14.ix.2009 (MT), 1 ♀; 25.vi.–15.vii.2009 (MT), 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Hrubý potok, 340–370 m (101), 25.vii.2005, 2 ♀♀, P. Chvojka leg. (NMPC). Zápechová, 520–530 m (141), 18.vi.2010, 3 ♂♂ 4 ♀♀, P. Chvojka leg. (NMPC). Drietomice, 360–390 m (258), 5.viii.2007, 4 ♂♂ 2 ♀♀; 14.x.2007, 1 ♀, P. Komzák leg. (JBBC). Krátkovský potok, 420 m (267), 5.viii.2007, 2 ♂♂ 2 ♀♀; 14.x.2007, 2 ♀♀; P. Komzák leg. (JBBC). RT Klanečnice, 460–500 m (312), 9.ix.–22.x.2010 (MT), 1 ♂, P. Chvojka & J. Macek leg. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: An infrequent species which occurs in streams flowing down from forested mountain slopes. **Red List status:** –.

Comments. Distributed in southern and central Europe, missing in the Iberian and Apennine Peninsulas. In the Czech Republic, it is common and abundant in mountain streams above 400–450 m a.s.l.

Leuctra braueri Kempny, 1898

Recent material examined. Nivnička, spring area, 580 m (37), 9.x.2010, 2 ♀♀, P. Komzák leg. (JBBC). Velička, spring area, upper section, 850–900 m (58), 17.ix.2009, 1 ♀; 27.x.2005, 1 ♂ 2 ♀♀, P. Chvojka leg. (NMPC). LT Velička, 700 m (62), 28.vii.2005, 3 ♂♂ 1 ♀, P. Chvojka leg. (NMPC). LT Velička, spring area, 570–620 m (64), 29.viii.–22.ix.2005 (MT), 18 ♂♂ 19 ♀♀; 3.viii.2004, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). LT Kamenný potok, 620–650 m (69), 26.x.2005, 1 ♂ 4 ♀♀, P. Chvojka leg. (NMPC). LT Velička, right branch, 600 m (75), 16.ix.2009, 2 ♀♀, P. Chvojka leg. (NMPC). LT Velička, left branch, 500 m (92), 15.ix.2009, 1 ♀, P. Chvojka leg. (NMPC). LT Hrubý potok, 550 m (98), 30.x.2007, 1 ♂ 1 ♀, P. Chvojka leg. (NMPC). Rybnický potok, 410–445 m (135), 10.ix.–3.x.2007 (MT), 1 ♂; 3.x.–30.x.2007 (MT), 2 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Křekovský potok, springs, 580 m (147), 24.x.2010, 2 ♀♀, P. Chvojka leg. (NMPC). Křekovský potok, 440–500 m (148), 24.x.2010, 2 ♀♀, P. Chvojka leg. (NMPC). LT Rakové, spring areas and brooklets, 600–670 m (184), 31.vii.–23.viii.2006 (MT), 14 ♂♂ 1 ♀; 23.vii.–20.ix.2006 (MT), 4 ♂♂ 3 ♀♀; 20.ix.–27.x.2006 (MT), 3 ♂♂ 3 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC); 16.x.2006, 6 ♂♂ 4 ♀♀, P. Komzák leg. (JBBC). LT Brumovka, spring areas and brooklets, 530–570 m (189), 23.viii.2006, 2 ♂♂, P. Chvojka leg. (NMPC); 15.x.2006, 1 ♂ 1 ♀, P. Komzák leg. (JBBC). LT Brumovka, 450 m (190), 30.x.2005, 1 ♂ 1 ♀, P. Chvojka leg. (NMPC). Dešňanský potok, spring area, brooklet, 530–570 m (194), 25.x.2006, 1 ♂, P. Chvojka leg. (NMPC); 5 ♂♂ 6 ♀♀, P. Komzák leg. (JBBC). LT Brumovka, spring areas, 430–460 m (197), 30.x.2005, 1 ♀, P. Chvojka leg. (NMPC); 23.viii.–20.ix.2006 (MT), 1 ♂; 20.ix.–25.x.2006 (MT), 1 ♂ 3 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). LT Brumovka, 400–430 m (198), 23.viii.2006, 3 ♂♂, P. Chvojka leg. (NMPC). LT Nedašovka, 490–570 m (206), 24.viii.2006, 1 ♂ 1 ♀, P. Chvojka leg. (NMPC). LT Nedašovka, spring area, 630 m (207), 24.viii.2006, 15 ♂♂ 12 ♀♀, P. Chvojka leg. (NMPC). Hlubočský potok, 440–460 m (224), 23.x.2010, 2 ♀♀, P. Chvojka leg. (NMPC). Bukový potok, spring area, 600 m (226), 11.viii.–8.ix.2010 (MT), 34 ♂♂ 54 ♀♀; 8.ix.–23.x.2010 (MT), 2 ♂♂, P. Chvojka & J. Macek leg. (NMPC); 26.x.2006, 2 ♂♂ 2 ♀♀, P. Chvojka leg. (NMPC). Uhlisko, right branch, 570 m (230), 26.x.2006, 1 ♂ 1 ♀, P. Chvojka leg. (NMPC). Uhlisko, 420 m (231), 25.x.2006, 1 ♀, P. Chvojka leg. (NMPC).

Stoneflies (Plecoptera)

RT Vlárka, 430–470 m (243), 11.viii.–8.ix.2010 (MT), 3 ♂♂ 3 ♀♀; 8.ix.–23.x.2010 (MT), 1 ♂ 2 ♀♀, P. Chvojka & J. Macek leg. (NMPC). RT Vlárka, 430–470 m (243), 28.x.2010, 1 ♂ 6 ♀♀, P. Chvojka leg. (NMPC). LT Drietomice, spring areas and brooks, 550–600 m (251), 5.viii.2007, 1 ♂; 14.x.2007, 1 ♂ 1 ♀, P. Komzák leg. (JBBC). LT Hrnčářův potok, spring area and brooklet, 490 m (269), 18.x.2008, 1 ♂, P. Komzák leg. (JBBC). LT Žitkovský potok, spring areas, 460–520 m (275), 2.ix.–2.x.2007 (MT), 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). LT Hrubár, spring brook, 655–660 m (290), 10.viii.2008, 1 ♂ 1 ♀, P. Komzák leg. (JBBC). Soliskový potok, 680–780 m (291), 19.x.2008; 2 ♂♂ 3 ♀♀, P. Komzák leg. (JBBC). Soliskový potok, 580–590 m (292), 10.viii.2008, 4 ♂♂ 1 ♀; 19.x.2008, 2 ♂♂ 7 ♀♀, P. Komzák leg. (JBBC). LT Zlatný potok, 550–590 m (299), 11.viii.2008, 6 ♂♂ 2 ♀♀; 1.xi.2007, 1 ♀, P. Komzák leg. (JBBC). LT Zlatný potok, 590–600 m (301), 19.x.2008, 3 ♀♀; 1.xi.2007, 1 ♂ 1 ♀, P. Komzák leg. (JBBC). Zlatný potok, 430–450 m (304), 1.xi.2007, 1 ♀, P. Chvojka leg. (NMPC). RT Klanečnice, 460–500 m (312), 9.ix.–22.x.2010 (MT), 1 ♀, P. Chvojka & J. Macek leg. (NMPC). Svinářský potok, 670 m (313), 26.x.2005, 3 ♂♂ 10 ♀♀, P. Chvojka leg. (NMPC). Svinářský potok, 560–590 m (314), 27.vii.–29.viii.2005 (MT), 17 ♂♂ 23 ♀♀; 29.viii.–20.ix.2005 (MT), 1 ♂ 15 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC); 28.x.2005, 2 ♂♂ 3 ♀♀, P. Komzák leg. (JBBC). RT Svinářský potok, 700 m (316), 26.x.2005, 1 ♂ 1 ♀, P. Chvojka leg. (NMPC). Svinářský potok, 390–420 m (320), 26.x.2005, 4 ♀♀, P. Chvojka leg. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: A very common and abundant species, especially in springbrooks. In other faunistic districts of the Czech Republic, it is always much less frequent. **Red List status:** –.

Comments. A central European species which occurs predominantly in small brooks and springs at various altitudes.

Leuctra digitata Kempny, 1899

Unpublished historical records. Olšava stream above Pitín, 375 m a.s.l. (6973), 28.viii.1958, 1 L, J. Raušer leg. (JRBC).

Recent material examined. Olšava, 350–380 m (8), 12.x.2007, 1 ♀, J. Bojková leg. (JBBC). Koménka, 275 m (19), 24.ix.2009, 4 ♀♀, P. Chvojka leg. (NMPC). Kladenka, 390 m (22), 23.ix.–22.x.2009 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Pivný potok, 390 m (41), 9.x.2010, 1 ♀, P. Komzák leg. (JBBC). Borsický potok, 320 m (55), 28.ix.2009, 1 ♀, P. Komzák leg. (JBBC). Velička, 470–480 m (68), 3.viii.2004, 1 ♂ 2 ♀♀, P. Chvojka leg. (NMPC). LT Velička, 435 m (82), 24.viii.–16.ix.2009 (MT), 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Velička, 400–420 m (83), 16.ix.2009, 5 ♂♂ 6 ♀♀, P. Chvojka leg. (NMPC). LT Kazivec, 400 m (89), 25.ix.2009, 3 ♀♀, P. Chvojka leg. (NMPC). Kazivec, 390–410 m (90), 15.ix.2009, 2 ♂♂ 2 ♀♀, P. Chvojka leg. (NMPC). LT Velička, left branch, 500 m (92), 15.ix.2009, 1 ♂ 3 ♀♀, P. Chvojka leg. (NMPC). LT Velička, 355–360 m (94), 14.ix.–22.x.2009 (MT), 1 ♂ 20 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Velička, 325–350 m (95), 14.ix.2009, 2 ♂♂ 2 ♀♀, P. Chvojka leg. (NMPC). Velička, 205 m (103), 15.ix.2009, 2 ♀♀, P. Chvojka leg. (NMPC). Radějovka, 355–360 m (108), 9.ix.–22.x.2010 (MT), 1 ♂ 1 ♀, P. Chvojka & J. Macek leg. (NMPC). Járkovec, 320–365 m (113), 21.viii.–18.ix.2006 (MT), 4 ♂♂ 4 ♀♀; 18.ix.–23.x.2006 (MT), 1 ♂ 15 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Radějovka, 270 m (117), 24.x.2006, 2 ♀♀, P. Chvojka leg. (NMPC). Rybnický potok, 410–445 m (135), 22.viii.–10.ix.2007 (MT), 2 ♂♂; 10.ix.–3.x.2007 (MT), 11 ♂♂ 14 ♀♀; 3.x.–30.x.2007 (MT), 4 ♂♂ 9 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Rybnický potok, 380–400 m (136), 10.viii.–7.ix.2010 (MT), 1 ♂ 1 ♀; 7.ix.–21.x.2010 (MT), 1 ♂ 1 ♀, P. Chvojka & J. Macek leg. (NMPC). Vápenický potok, 360 m (180), 16.vii.2009, 1 ♀, P. Chvojka leg. (NMPC). Hlubočský potok, 440–460 m (224), 23.x.2010, 2 ♀♀, P. Chvojka leg. (NMPC). Vlárka, 380 m (240), 23.x.2010, 1 ♀, P. Chvojka leg. (NMPC). LT Drietomice, spring areas and brooks, 550–600 m (251), 14.x.2007, 1 ♂ 1 ♀, P. Komzák leg. (JBBC). LT Drietomice, 435–440 m (255), 21.x.2007, 2 ♀♀, J. Bojková leg. (JBBC). Drietomice, 360–390 m (258), 14.x.2007, 1 ♀, P. Komzák leg. (JBBC). Krátkovský potok, 450–485 m (261), 18.x.2008, 1 ♂ 4 ♀♀, P. Komzák leg. (JBBC). Trstná, 450–480 m (264), 18.x.2008, 2 ♂♂ 7 ♀♀ 1 gynandromorph, P. Komzák leg. (JBBC). RT Trstná, spring area, 450–460 m (266), 10.viii.2008, 2 ♂♂ 1 ♀, P. Komzák leg. (JBBC). Krátkovský potok, 420 m (267), 14.x.2007, 3 ♂♂ 8 ♀♀, P. Komzák leg. (JBBC). LT Hrnčářův potok, spring area and brooklet, 490 m (269), 18.x.2008, 2 ♀♀, P. Komzák leg. (JBBC). Žitkovský

potok, 440–450 m (276), 31.x.2007, 1 ♀, P. Chvojka leg. (NMPC). LT Hrubár, 440 m (297), 9.x.2010, 2 ♂♂ 3 ♀♀, P. Komzák leg. (JBBC).

Distribution and frequency in the Bílé Karpaty PLA: A common species. **Red List status:** –.

Comments. A European species missing in the British Isles and eastern European lowlands. It inhabits various brooks and streams at a wide range of altitudes; it was found also in flowing swampy habitats, acidic brooks and Scandinavian lakes.

One specimen found in the Trstná brook near the village of Vápenice represents a bilateral gynandromorph. The occurrence of gynandromorphism is rare in the Plecoptera. In Europe, the gynandromorphism was reported in three *Leuctra* species (AUBERT 1958, KLOTZEK 1971) and one *Protonemura* species (SANCHEZ-ORTEGA 1992). The external morphology of a *Leuctra digitata* gynander was described by KLOTZEK (1971).

Leuctra fusca (Linnaeus, 1758)

Unpublished historical records. Klanečnice stream in Strání-Květná, 340 m a.s.l. (7172), 28.viii.1958, 1 L. Vlára river below Bylnice, 285 m a.s.l. (6974), 28.viii.1958, 1 L. Both J. Raušer leg. (JRBC).

Recent material examined. Velička, 205 m (103), 15.ix.2009, 1 ♀, P. Chvojka leg. (NMPC). Brumovka, 340–355 m (196), 24.x.2010, 1 ♀ 2 ♂♂, P. Chvojka leg. (NMPC). Vlára, 285 m (236), 23.x.2010, 3 ♂♂ 13 ♀♀, P. Chvojka leg. (NMPC). Vlárka, 380 m (240), 23.x.2010, 1 ♀, P. Chvojka leg. (NMPC). LT Hrubár, 440 m (297), 9.x.2010, 1 ♀, P. Komzák leg. (JBBC).

Distribution and frequency in the Bílé Karpaty PLA: Although generally a very common species, in the Bílé Karpaty PLA it was found only in a few more or less polluted streams. **Red List status:** –.

Comments. A Palearctic species, widespread and numerous especially in medium and large streams and rivers, mainly at lower altitudes. It is less sensitive to organic pollution than many other Plecoptera.

Leuctra hippopus Kempny, 1899

Unpublished historical records. Olšava stream above Pitín, 375 m a.s.l. (6973), 23.iv.1958, 1 ♀, J. Raušer leg. (JRBC).

Recent material examined. LT Velička, 435 m (82), 7.iv.–12.v.2009 (MT), 15 ♂♂ 12 ♀♀; 12.v.–3.vi.2009 (MT), 2 ♂♂ 12 ♀♀; 3.vi.–22.vi.2009 (MT), 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). RT Velička, 450 m (84), 7.iv.–12.v.2009 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). LT Velička, 355–360 m (94), 6.iv.–12.v.2009 (MT), 71 ♂♂ 98 ♀♀; 12.v.–2.vi.2009 (MT), 4 ♂♂ 12 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Velička, 325–350 m (95), 3.vi.2009, 1 ♀, P. Chvojka leg. (NMPC). Hrubý potok, 455 m (97), 14.vi.2010, 1 ♀, P. Chvojka leg. (NMPC). Járkovec, 320–365 m (113), 19.iv.–10.v.2006 (MT), 1 ♂; 10.v.–29.v.2006 (MT), 4 ♀♀; 29.v.–20.vi.2006 (MT), 3 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Rybnický potok, 410–445 m (135), 9.v.–28.v.2007 (MT), 2 ♂♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Rybnický potok, 380–400 m (136), 7.iv.–5.v.2010 (MT), 7 ♂♂ 10 ♀♀; 5.v.–24.v.2010 (MT), 9 ♂♂ 19 ♀♀, P. Chvojka & J. Macek leg. (NMPC). Vlárka, 380 m (240), 25.v.2010, 5 ♀♀, P. Chvojka leg. (NMPC). LT Drietomice, 435–440 m (255), 29.iv.2007, 1 ♂ 16 ♀♀, J. Bojková leg. (JBBC). LT Drietomice, 435–440 m (255), 29.iv.2007, 1 ♂ 16 ♀♀; 17.v.2007, 12 ♀♀, J. Bojková leg. (JBBC). Drietomice, 360–390 m (258), 4.vi.2007, 1 ♀, P. Komzák leg. (JBBC). Hrnčarův potok, 470–485 m (268), 30.v.2009, 1 ♀, P. Komzák leg. (JBBC). Vlčí potok, 440 m (272), 31.v.2008, 1 ♀, P. Komzák leg. (JBBC). LT Žitkovský potok, spring areas, 460–520 m (275), 11.iv.–9.iv.2007 (MT), 7 ♂♂ 7 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Žitkovský

Stoneflies (Plecoptera)

potok, 360–380 m (281), 5.v.2009, 1 ♂, P. Komzák leg. (JBBC). Hrubár, 435 m (295), 9.v.2008, 1 ♀; 1.vi.2008, 1 ♀, P. Komzák leg. (JBBC). RT Klanečnice, 460–500 m (312), 8.iv.–5.v.2010 (MT), 2 ♂♂; 5.v.–25.v.2010 (MT), 6 ♀♀; 25.v.–15.vi.2010 (MT), 2 ♀♀, P. Chvojka & J. Macek leg. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: A common species in brooks.

Red List status: –.

Comments. A western Palaearctic species, widespread and abundant in medium and small brooks, streams and rivers at various altitudes.

Leuctra major Brinck, 1949

Unpublished historical records. Radějovka stream above Radějov, 275 m a.s.l. (7170), 15.x.1958, 3 ♀♀, J. Raušer leg. (JRBC).

Distribution and frequency in the Bílé Karpaty PLA: The species has not been confirmed in the area recently. **Red List status:** –.

Comments. A central and southern European species. It inhabits brooks and streams mostly in the montane and submontane zones. Rare and scattered in the Czech Republic.

Leuctra nigra (Olivier, 1811)

Recent material examined. Gáborka, 280 m (35), 23.v.2010, 1 ♀, P. Komzák leg. (JBBC). Myjava, 580–650 m (130), 14.vi.2010, 1 ♀, P. Chvojka leg. (NMPC). LT Rybnický potok, spring area, 440 m (134), 6.vi.2005, 1 ♂ 1 ♀, P. Chvojka leg. (NMPC). Rybnický potok, 380–400 m (136), 5.v.–24.v.2010 (MT), 1 ♀, P. Chvojka & J. Macek leg. (NMPC). LT Lipovský potok, 500 m (156), 27.vi.2010, 2 ♂♂ 5 ♀♀, P. Komzák leg. (JBBC). Václavský potok, spring, 480 m (161), 23.v.2010, 1 ♂, P. Komzák leg. (JBBC). Bukový potok, spring area, 600 m (226), 24.v.–16.vi.2010 (MT), 1 ♂; 16.vi.–4.vii.2010 (MT), 1 ♂ 1 ♀, P. Chvojka & J. Macek leg. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Much less frequent in the area investigated than in other mountain regions of the Czech Republic. It seems to be replaced by *L. braueri* in suitable habitats. **Red List status:** –.

Comments. A European species missing in the Iberian Peninsula and eastern European lowlands. Very common and abundant in small forest brooks and springs, especially at higher altitudes. It is also often found in slow-flowing, muddy brooks and acidic waters.

Leuctra prima Kempny, 1899

Unpublished historical records. Olšava above Pitín, 375 m a.s.l. (6973), 15.x.1958, 1 L, J. Raušer leg. (JRBC).

Recent material examined. Kladenka, 390 m (22), 26.iii.–21.iv.2008 (MT), 1 ♂ 9 ♀♀; 21.iv.–13.v.2008 (MT), 2 ♂♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Rybnický potok, 380–400 m (136), 7.iv.–5.v.2010 (MT), 1 ♂ 2 ♀♀, P. Chvojka & J. Macek leg. (NMPC). Bukový potok, spring area, 600 m (226), 6.iv.–5.v.2010 (MT), 4 ♀♀; 5.v.–24.v.2010 (MT), 13 ♀♀; 24.v.–16.vi.2010 (MT), 1 ♀, P. Chvojka & J. Macek leg. (NMPC). RT Vlárka, 430–470 m (243), 6.iv.–5.v.2010 (MT), 3 ♂♂ 9 ♀♀; 25.v.–16.vi.2010 (MT), 1 ♀, P. Chvojka & J. Macek leg. (NMPC). Krátkovský potok, 450–485 m (261), 8.v.2008, 1 ♀, P. Komzák leg. (JBBC). Hrubár, 560–570 m (289), 2.iv.2005, 3 ♂♂ 1 ♀, J. Bojková leg. (JBBC). Zlatný potok, 430–450 m (304), 9.v.2008, 1 ♀, P. Komzák leg. (JBBC). RT Klanečnice, 460–500 m (312), 8.iv.–5.v.2010 (MT), 1 ♂ 1 ♀; 5.v.–25.v.2010 (MT), 1 ♀, P. Chvojka & J. Macek leg. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: An infrequent species found in clear brooks. **Red List status:** –.

Comments. A European species missing in Fennoscandia and the British Isles; it extends from the Pyrenees, over the Massif Central, the northern slopes of the Alps, the Jura, and the Vosges, to the Carpathians and western Russia (VINÇON & MURÁNYI 2007). It is generally frequent in small streams at various altitudes.

Leuctra pseudosignifera Aubert, 1954

Recent material examined. Velička, spring area, upper section, 850–900 m (58), 28.iv.–7.vi.2005 (MT), 14 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). LT Velička, 700 m (62), 7.vi.2005, 1 ♂ 1 ♀, P. Chvojka leg. (NMPC). LT Rakové, spring areas and brooklets, 600–670 m (184), 20.iv.–11.v.2006 (MT), 1 ♂, P. Chvojka, J. Ježek & J. Macek leg. (NMPC); 20.v.2006, 3 ♀♀, P. Komzák leg. (JBBC). LT Brumovka, spring areas, 430–460 m (197), 10.iv.2006, 1 ♂, J. Bojková leg. (JBBC). LT Brumovka, 400–430 m (198), 30.iv.2006, 1 ♀, J. Bojková leg. (JBBC). LT Žitkovský potok, spring areas, 460–520 m (275), 11.iv.–9.iv.2007 (MT), 2 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). Zlatný potok, 550–590 m (299), 9.v.2008, 1 ♂ 4 ♀♀, P. Komzák leg. (JBBC). RT Klanečnice, 460–500 m (312), 8.iv.–5.v.2010 (MT), 1 ♂ 2 ♀♀, P. Chvojka & J. Macek leg. (NMPC). Svinárský potok, 560–590 m (314), 19.v.2005 (MT), 62 ♀♀; 19.v.–7.vi.2005 (MT), 12 ♀♀, P. Chvojka, J. Ježek & J. Macek leg. (NMPC). RT Svinárský potok, 700 m (316), 4.vi.2009, 1 ♀, P. Chvojka leg. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: An infrequent species occurring in brooks and springs above 450–500 m a.s.l. **Red List status:** –.

Comments. Distributed in western and central Europe, missing in Fennoscandia and the British Isles. It extends from the French Massif Central, over the Alps, the Jura and the Vosges to the Carpathians (VINÇON & MURÁNYI 2007). It inhabits mountain springs and small streams.

Leuctra quadrimaculata Kis, 1963

Published records. BOJKOVÁ & ŠPAČEK (2006): Hrušovka below Kaňoury NM, Nedašov (6874d3).

Distribution and frequency in the Bílé Karpaty PLA: A very rare species known only from a single record. **Red List status:** –.

Comments. A Balkan-Carpathian species; it inhabits montane and submontane brooks and streams. In the Czech Republic, there are some additional records from the Moravskoslezské Beskydy [=Moravian-Silesian Beskids] and the Javorníky Mts. (KROČA 2011).

Discussion and conclusions

Altogether 37 Plecoptera species (37% of the fauna of the Czech Republic) from 12 genera and seven families have been recorded to date from the Bílé Karpaty PLA. The most remarkable records are the Carpathian, Carpathian-Balkan and Carpathian-Anatolian species *Leuctra quadrimaculata*, *Nemoura fusca*, *N. carpathica*, and *Protonemura aestiva*. These species are restricted in the Czech Republic to undisturbed

montane brooks and springs in the Carpathians at the Moravian-Slovak borderland and, except for *P. aestiva*, they are rare. They were found in the Czech Republic for the first time only recently (BOJKOVÁ & ŠPAČEK 2006); for this reason they are not included in the national Red List of threatened invertebrates (HELEŠIC *et al.* 2005), unlike the seven other species listed below. Four of these, *Isoperla sudetica*, *I. tripartita* (both classified in the Red List as “endangered”), and *Amphinemura standfussi* and *Nemoura sciurus* (both classified as “vulnerable”), are common in the Bílé Karpaty PLA. The records of *Isoperla tripartita* are remarkable from a zoogeographical point of view. This eastern Mediterranean species reaches the north-westernmost limit of its distribution in the Czech Republic (RAUŠER 1964) and the Bílé Karpaty Mts. are the only region in the Czech Republic where it is widespread and abundant. The unusually frequent occurrence of *Nemoura sciurus* may be explained by the species’ preference for waters rich in carbonate (ZWICK 2004), because the majority of streams in the area are typically mineral-rich. The remaining two red-listed species, *Perlodes dispar* and *Perla marginata* (both considered as “endangered” by HELEŠIC *et al.* 2005), and *Leuctra major* were found in the Bílé Karpaty PLA in 1958 and have not been re-collected recently at the sites of their earlier occurrence (the Radějovka, Olšava, and Klanečnice streams). These three species are sensitive to pollution and stream morphology degradation. Their disappearance may be due to these impacts, something that has also been observed in many other streams in the Czech Republic (SOLDÁN *et al.* 1998) and which is probably also the case in the Bílé Karpaty PLA.

In the Bílé Karpaty PLA, it is possible to distinguish several habitat types that host different stonefly species assemblages (taxocoenoses). The forest mountain springs and brooks, as well as calcareous treeless springs, were found to have the most species-rich Plecoptera taxocoenoses. They host some species of Nemouridae that are found almost exclusively in spring habitats (e.g. *Nemoura fusca*, *N. marginata*, and *Protonemura aestiva*), species of small brooks (e.g. *Siphonoperla neglecta*, *Protonemura auberti*, *Leuctra braueri*, *L. nigra*, and *L. pseudosignifera*), and in lower numbers some common rhithral species as well. Brooks and small streams flowing down from mountains are inhabited by rhithral species such as *Diura bicaudata*, *Isoperla sudetica*, *Brachyptera seticornis*, *Nemoura flexuosa*, *N. cambrica*, *Protonemura praecox*, and *Leuctra albida*, which are absent from slower-flowing streams at lower altitudes. The latter host some abundant species, such as *Isoperla tripartita*, *I. grammatica*, *Brachyptera risi*, *Amphinemura standfussi*, *Capnia bifrons*, *Leuctra hippopus*, and *L. digitata*. Many streams at lower altitudes exhibit highly fluctuating discharge and temperature. The Plecoptera assemblages in these habitats are especially dominated by *Nemoura cinerea*, *Isoperla tripartita*, and *Amphinemura standfussi*. Insolated streams flowing through urban or agricultural areas are inhabited only by *N. cinerea* or there are no stoneflies at all. The impacts on stoneflies of high discharge fluctuations and water warming during summer and early autumn were outlined by KRNO & HORNIÁK (2007) for the southern part of the Biele Karpaty Mts. in Slovakia. The watercourses of the area were inhabited predominantly by species tolerating high discharge fluctuations, such as *I. tripartita*, *I. grammatica*, *N. cinerea*, *C. bifrons*, and *L. digitata* (KRNO & HORNIÁK 2007).

The numbers of species recorded in the Bílé Karpaty PLA and in the Slovak part of the mountains (KRNO 1994, KRNO & HORNIÁK 2007) are almost identical. However, the species composition of the respective faunas is not the same. We did not record some of the mountain species living in cold and fast-flowing streams that are known to occur in the northern part of the Slovak Biele Karpaty Mts. (*Perlodes intricatus* (Pictet, 1841), *Protonemura nitida* (Pictet, 1835), *Nemoura uncinata* Despax, 1934, *Leuctra armata* Kempny, 1899, and *L. autumnalis* (Aubert, 1948)) and some other species common in medium-sized streams in Slovakia (*Isoperla difformis* (Klapálek, 1909), and *Amphinemura sulcicollis* (Stephens, 1835)). In contrast, five species we found in small brooks and spring areas (*Nemoura carpathica*, *N. fusca*, *N. sciurus*, *Protonemura aestiva*, and *Leuctra quadrimaculata*), one eurytopic species (*Leuctra fusca*), and two species recorded in the Moravian part of the White Carpathians only in the 1950's (*Perlodes dispar* and *Leuctra major*) have not been recorded from the Slovak part of the mountains.

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Souhrn

Pošvatky (Plecoptera) Chráněné krajinné oblasti a biosférické rezervace Bílé Karpaty.

Celkem bylo na území Chráněné krajinné oblasti a Biosférické rezervace Bílé Karpaty dosud zaznamenáno 37 druhů pošvatek ze 12 rodů a sedmi čeledí, což je zhruba třetina fauny pošvatek České republiky. Čtyři z nich jsou ohroženými druhy podle Červeného seznamu ohrožených bezobratlých České republiky (kategorie EN: *Isoperla sudetica*, *I. tripartita*, *Perlodes dispar* a *Perla marginata*) a tři jsou druhy zranitelnými (kategorie VU: *Perla abdominalis*, *Amphinemura standfussi* a *Nemoura sciurus*). Z faunistického hlediska je pozoruhodný zejména výskyt a velký počet nálezů druhů *Isoperla tripartita* a *Nemoura sciurus*. *I. tripartita* je východo-mediteránním prvkem, jehož severní hranice areálu prochází územím České republiky, a který se vyskytuje především v jihovýchodní části území. V Bílých Karpatech je široce rozšířeným a početným druhem. Středoevropský druh *N. sciurus* byl v České republice dosud znám pouze z několika nálezů. V Bílých Karpatech je též široce rozšířeným druhem, pravděpodobně díky jeho afinitě k vápenitým tokům. Z dalších druhů jsou významné nálezy čtyř karpatských, karpatsko-balkánských či karpatsko-anatolských druhů *Nemoura carpathica*, *N. fusca*, *Protonemura aestiva* a *Leuctra quadrimaculata*, které jsou v České republice vzácné. Tři druhy (*Perlodes dispar*, *Perla marginata* a *Leuctra major*) zaznamenané v Bílých Karpatech v roce 1958 nebyly během intenzivního faunistického výzkumu v oblasti v letech 2004–2011 znovu nalezeny a je pravděpodobné, že z historických lokalit zcela vymizely. Největší druhová diverzita pošvatek byla zjištěna v malých potocích a prameništích v horských oblastech Bílých Karpat. V těchto biotopech se vyskytuje většina z nalezených druhů pošvatek.

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**Grasshoppers and crickets (Orthoptera), earwigs (Dermaptera),
cockroaches (Blattaria), and mantises (Mantodea)
of the Bílé Karpaty Protected Landscape Area and
Biosphere Reserve (Czech Republic)**

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HOLUŠA J., KOČÁREK P. & KONVIČKA O. 2012: Grasshoppers and crickets (Orthoptera), earwigs (Dermaptera), cockroaches (Blattaria), and mantises (Mantodea) of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic). In: MALENOVSKÝ I., KMENT P. & KONVIČKA O. (eds.): Species inventories of selected insect groups in the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic). *Acta Musei Moraviae, Scientiae biologicae* (Brno) **96(2)** (2011): 71–104. – Based on previously published data and newly examined material, 49 species of Orthoptera, four species of Blattaria, one species of Mantodea, and four species of Dermaptera are recorded from the Bílé Karpaty [= the White Carpathians] Protected Landscape Area and Biosphere Reserve (south-eastern Moravia, Czech Republic). The fauna of the area consists predominantly of species of the deciduous forest zone of the Euro-Siberian region with steppe and forest-steppe species that occur less frequently. Most of the species have a wide ecological valence and distribution in the Czech Republic and can occur in various grassland habitats, often preferring taller stands; others live on shrubs, trees, or in leaf litter. Stenotopic or thermophilous species which occur (sometimes abundantly) in warm and arid, short-stemmed xerothermic grassland and sparsely vegetated areas include *Calliptamus italicus* (Linnaeus, 1758), *Chorthippus mollis* (Charpentier, 1825), *Euchorthippus declivus* (Brisout-Barneville, 1848), *Metrioptera bicolor* (Philippi, 1830), *Oedipoda caerulescens* (Linnaeus, 1758), *Omocestus rufipes* (Zetterstedt, 1821), *Platycleis albopunctata grisea* (Goeze, 1778), *Poecilimon intermedius* (Fieber, 1853), *Stenobothrus crassipes* (Charpentier, 1825), and *S. lineatus* (Panzer, 1796). As the overall character of the area is relatively arid and the extent of wetlands negligible, only a few hygrophilous species are present in the area (*Chorthippus montanus* (Charpentier, 1825), *Chrysochraon dispar* (Germar, 1834), *Conocephalus fuscus* (Fabricius, 1793), *Euthystira brachyptera* (Ocskay, 1826), and *Metrioptera brachyptera* (Linnaeus, 1761)). From the viewpoint of nature conservation, the most important species of Orthoptera in the Bílé Karpaty are *Polysarcus denticauda* (Charpentier, 1825), *Poecilimon intermedius*, *Pseudopodisma nagyii* Galvagni et Fontana, 1996, and *Psophus stridulus* (Linnaeus, 1758), which are threatened in the Czech Republic.

Key words. Ensifera, Caelifera, Blattodea, Dermaptera, *Mantis religiosa*, faunistics, biogeography, species conservation, White Carpathians, Moravia, Czech Republic

Introduction

The order Orthoptera, including grasshoppers, crickets and allied insects, constitutes one of the dominant groupings of invertebrates in the graminoid-herbaceous ecosystems

of central Europe. They are conspicuous, mid-sized insects, the biology and ecological demands of which are relatively well-known (KOČÁREK *et al.* 2005). Many species react very sensitively to changes in the structure of their habitats. For this reason, a number of species have disappeared or become endangered. On the other hand, this sensitivity on the part of the Orthoptera can be useful for indication of changes in the environment. In the Czech Republic, 98 species of Orthoptera have been found to date (KOČÁREK *et al.* 2005, KOČÁREK & HOLUŠA 2006).

Compared to the Orthoptera, the Dermaptera, or earwigs, and the Blattaria, or cockroaches, are not so tightly confined to specific types of habitats; most species are generalists. Currently, seven species of Dermaptera and 11 species of Blattaria (six of which are introduced) are known to occur in the Czech Republic (KOČÁREK *et al.* 2005). The sole representative of the Mantodea, or mantises, in the Czech Republic, *Mantis religiosa* Linnaeus, 1758, is non-specifically tied to taller graminoid-herbaceous vegetation in the warmer parts of the country (KOČÁREK *et al.* 2005).

The Bílé Karpaty Protected Landscape Area and Biosphere Reserve (abbreviated to Bílé Karpaty PLA hereafter) is situated in the south-eastern part of the Czech Republic (Moravia) and covers most of the Czech part of the White Carpathians Mts [Bílé Karpaty in Czech] extending along the Czech-Slovak border. The general characteristics of the natural conditions of the area are given by KUČA *et al.* (1992), MACKOVČIN & JATIOVÁ (2002), JONGEPIEROVÁ (2008), and KONVIČKA *et al.* (2012). Several authors have studied the Orthoptera of the White Carpathians in the past. The most important and comprehensive works were published by ČEJCHAN (1983, 1985, 1986). Others dealt with individual species (GÖRTLER 1944; GINTER 1951; ŠULOVÁ 1958, 1959; CHLÁDEK 1987; GALVAGNI & FONTANA 1996; HOLUŠA 1998, 2000, 2003; HOLUŠA *et al.* 2007a,b; VIDLIČKA & HOLUŠA 1999; BEZDĚČKA *et al.* 2000; KOČÁREK *et al.* 2008) or localities (CHLÁDEK 2002, 2003, 2009).

In 1998–2010, intensive faunistic surveys of Orthoptera, Dermaptera, Blattaria, and Mantodea were conducted in more than 60 small-scale, specially protected areas and other sites within the Bílé Karpaty PLA. In this contribution we summarize all the available data on these groups of insects from the Bílé Karpaty PLA, including both published and recently collected material, and comment on important species.

Material and methods

In 1998–2010, material was collected by sweeping and individual collecting. Visual and acoustic observations were also made. As the studied localities were in most cases specially protected, only a few individuals were collected from any given site as voucher material for each species. This material is stored in the authors' private collections. If the localities were particularly small (less than 2 ha), their entire areas were examined; at larger localities, the surveys focused on patches selected from throughout the site that represented all types of current habitat. The surveys were carried out for 2–6 hours in the afternoon in warm, sunny weather.

Grasshoppers, crickets (Orthoptera), earwigs (Dermaptera), cockroaches (Blattaria), mantises (Mantodea)

A very important source of information was the Ondřej Ginter collection deposited in the Museum of South-eastern Moravia in Zlín, and especially his manuscript on the occurrence of Orthoptera in Moravia (a historical region constituting the eastern part of the Czech Republic; see KMENT 2009). It also includes detailed records from the White Carpathians. In view of the flawless determination of the specimens stored in the Ginter collection, the data from the manuscript can be considered reliable; herein they are listed with the note “GINTER in litt.”.

The nomenclature and classification in our paper follow KOČÁREK *et al.* (2005). The conservation status is given according to the Red List of threatened invertebrates of the Czech Republic (HOLUŠA & KOČÁREK 2005a,b; JANŠTA 2005; KOČÁREK & HOLUŠA 2005).

The following abbreviations are used: NM – Nature Monument, NNM – National Nature Monument, NNR – National Nature Reserve, NR – Nature Reserve, PLA – Protected Landscape Area (all of these are the various categories and terms specified by the Czech system of legally protected natural areas); EX – extinct, CR – critically endangered, EN – endangered, VU – vulnerable, NT – near-threatened (the latter five relate to the categories in the Red List of threatened invertebrates of the Czech Republic, *cf.* HOLUŠA & KOČÁREK 2005a,b; JANŠTA 2005; KOČÁREK & HOLUŠA 2005); arb. – arboricolous (living on trees), arbs. – arbusticolous (living on shrubs), des. – deserticolous (living on steppes and fallows), H – hygrophilous, m. – mountains, M – mesophilous, mH – mesohygrophilous, l. – lowlands, pr. – praticolous (living in meadows, pastures and grassy hillsides), rip. – ripicolous (living on banks of waters), sil. – silvicolous (living in forests), ter. – terricolous (living on bare soil), u. – uplands, X – xerophilous.

List of collecting sites

Each entry in the list of collecting sites is arranged as follows: number of locality, name of the nearest village or town, local name of the collecting site or name of a small-scale protected area (reserve) if appropriate, code of the field (in parentheses) in the faunistic and floristic grid mapping system of central Europe (EHRENDORFER & HAMANN 1965, PRUNER & MÍKA 1996; each basic field divided into 16 subfields, *cf.* KONVIČKA *et al.* 2012), GPS coordinates (specified for the centre of each collecting site), altitude, habitat, date(s) of collection, and person who collected and identified the material (and usually kept voucher specimens).

1. Petrůvka, U Petrůvky NM (6872d4), 49°06'35"N 17°48'38"E, 400–450 m a.s.l.; grassland dominated by *Arrhenatherum elatius* and *Dactylis glomerata* on eastern slope surrounded by mixed forest, dry places with *Hypericum* sp. or only sparsely vegetated; 4.vii. and 17.viii.2010, J. Holuša leg., det. & coll.
2. Vlachovice, U Kovaříků (6873c2/d1/c4/d3), 49°07'30"N 17°54'51"E, 400 m a.s.l.; tall vegetation on margin of a cattle pasture; 15.ix.2007, O. Konvička leg. & det.
3. Poteč, Ploščíny NR (6874c2), 49°08'22"N 18°03'40"E, 620–730 m a.s.l., dry cattle and sheep pasture dominated by *Festuca* sp. and *Dactylis glomerata*, with patches of bare ground and solitary bushes of *Juniperus communis*, surrounded by forest; 17.vi., 6.vii. and 2.ix.2006, J. Holuša leg., det. & coll.

4. Valašské Klobouky, Bílé potoky NR (6874c3), 49°07'08"N 18°01'27"E, 400–500 m a.s.l.; meadow with *Dactylis glomerata* and *Arrhenatherum elatius*, dry patches with *Thymus* sp.; 17.vi., 6.vii. and 20.viii.2006, J. Holuša leg., det. & coll.
5. Nedašova Lhota (6874c4/d1/d3), 49°07'27"N 18°04'56"E, 430–450 m a.s.l.; dry sheep and cattle pasture with *Juniperus communis*; 19.viii.2007, 21.vii.2009 and 2.viii.2010, O. Konvička leg. & det.
6. Nedašova Lhota (6874d1), 49°07'39"N 18°05'22"E, 450 m a.s.l.; dry grassland near orchard and a hollow way; 24.ix.2009, O. Konvička leg. & det.
7. Nedašova Lhota, Paseky (6874d1), 49°07'43"N 18°05'54"E, 490–560 m a.s.l.; mesophilous cattle pastures scattered in open forest; 29.vi. and 23.ix.2010, P. Kočárek leg., det. & coll.
8. Nedašova Lhota, Zadky (6874d1), 49°08'18"N 18°05'24"E, 600–650 m a.s.l.; stony dry pasture with *Thymus* sp.; 20.viii.2009, O. Konvička leg. & det.
9. Nedašov, Jalovcová stráž NR (6874d3), 49°06'05"N 18°05'39"E, 610–690 m a.s.l.; grassland dominated with *Arrhenatherum elatius* and *Dactylis glomerata*, partly grazed by sheep or cut; 17.vi., 17.vii. and 2.ix.2006, J. Holuša leg., det. & coll.; 2.viii., 26.x.2007 and 10.viii.2009, O. Konvička leg. & det.
10. Nedašov, Kaňoury NM (6874d3), 49°06'53"N 18°06'24"E, 605–650 m a.s.l.; mesophilous meadow with scattered trees, surrounded by forest; 29.vi. and 23.ix.2010, P. Kočárek leg., det. & coll.
11. Kladná-Žilín (6972b1), 49°05'25"N 17°47'15"E, 355–395 m a.s.l.; dry sheep pasture; 9.vii. and 17.viii.2009, P. Kočárek leg., det. & coll.
12. Divnice (6973a2/b1), 49°05'55"N 17°54'58"E, 340 m a.s.l.; mesophilous meadows and pastures; 26.vii.2006, O. Konvička leg. & det.
13. Hoštětín, Žleb NM (6973a4/c2), 49°03'02"N 17°53'10"E, 400–450 m a.s.l.; meadows and pastures with marshy patches, surrounded by mixed forest; 10.vii. and 17.viii.2008, J. Holuša leg., det. & coll.
14. Štítná nad Vláří (6973b2), 49°04'36"N 17°58'58"E, 330–360 m a.s.l.; dry grassland on clay with *Arrhenatherum elatius*, *Galium aparine* and *Rubus* bushes, partly with bare gravel plots; 18.vi., 6.vii. and 20.viii.2006, J. Holuša leg., det. & coll.
15. Brumov, Březová (6974a1), 49°05'12"N 18°00'41"E, 410 m a.s.l.; dry grassland with *Juniperus communis*, hollow way; 31.vii.2009 and 2.viii.2010, O. Konvička leg. & det.
16. Brumov, Svatá Anna (6974a1), 49°05'31"N 18°01'42"E, 370–390 m a.s.l.; stony sheep pasture, old orchard; 17.vi.2010, O. Konvička leg. & det.
17. Bylnice, Na Stráži (6974a1), 49°04'41"N 18°00'30"E, 310–350 m a.s.l.; sheep pastures, dry grassland, short-stemmed meadow; 18.vi., 19.vii. and 20.viii.2006, J. Holuša leg., det. & coll.
18. Bylnice (6974a1/a3), 49°04'29"N 18°00'09"E, 320 m a.s.l.; dry sheep pasture on railway embankment; 23.iii.2010, O. Konvička leg. & det.
19. Nedašov, Šumlatová NM (6974a2), 49°05'41"N 18°04'21"E, 640 m a.s.l.; dry grassland with *Arrhenatherum elatius*, *Succisa pratensis* and *Pyrethrum* sp., surrounded by broadleaved forest; 17.vi., 6.vii. and 2.ix.2006, J. Holuša leg., det. & coll.
20. Brumov, Holý vrch (6974a2/b1), 49°04'56"N 18°04'59"E, 800–830 m a.s.l.; mesophilous meadows; 15.x.2007, O. Konvička leg. & det.
21. Bylnice (6974a3), 49°04'03"N 18°00'52"E, 300 m a.s.l.; ruderal vegetation along railway; 18.viii.2009, O. Konvička leg. & det.
22. Nedašov, Pod Cigánem NM (6974b1), 49°05'44"N 18°05'25"E, 550 m a.s.l.; mesophilous pasture dominated by *Nardus stricta* and marshes surrounded by meadows, 17.vi., 6.vii. and 2.ix.2006, J. Holuša leg., det. & coll.
23. Sidonie, Bočky (6974b3), 49°03'34"N 18°05'28"E, 400–495 m a.s.l.; abandoned grassland with scattered trees and shrubs, recently partly grazed by sheep, 29.vi. and 23.ix.2010, P. Kočárek leg., det. & coll.
24. Svatý Štěpán (6974c2), 49°02'20"N 18°02'57"E, 300 m a.s.l.; floodplain forest with alders and willows along river; 23.iii.2010, O. Konvička leg. & det.
25. Suchov, Šumárníky (7071c4), 48°54'04"N 17°34'38"E, 420–450 m a.s.l.; former pasture, shrubs of *Prunus spinosa* and *Crataegus laevigata*, patches of dry tall grassland; 12.vi., 29.vi. and 28.viii.2008, P. Kočárek leg., det. & coll.

26. Horní Němčí, Drahy NR (7071d4), 48°55'17"N 17°38'22"E, 400–513 m a.s.l.; former sheep and goat pasture, dry short-stemmed grassland; 12.vi., 29.vi. and 28.viii.2008, P. Kočárek leg., det. & coll.
27. Horní Němčí, Za lesem NM (7071d4), 48°54'21"N 17°39'10"E, 600 m a.s.l.; mesic meadow, small pool; 3.ix.2008, O. Konvička leg. & det.
28. Komňa, Lom Rasová NM (7072b2), 48°58'34"N 17°48'43"E, 500 m a.s.l.; abandoned quarry, pool surrounded by marshes and reeds, stony dry patches with stands of *Brachypodium pinnatum*; 1.vii. and 19.viii.2007, J. Holuša leg., det. & coll.
29. Bystřice pod Lopeníkem, quarry (7072b3), 48°57'43"N 17°46'15"E, 450 m a.s.l.; abandoned quarry with stony plots; 6.viii.2009 and 13.viii.2010, O. Konvička leg. & coll.
30. Březová, Cestiska NM (7072c2), 48°55'44"N 17°43'49"E, 530–560 m a.s.l.; dry stony grassland between former hollow ways, small swamp; 10.vii. and 17.viii.2009, J. Holuša leg., det. & coll.
31. Strání, Hrmčárky NM (7072c3), 48°54'32"N 17°40'36"E, 400–440 m a.s.l.; mesophilous meadows with orchids, spring fens; 28.v.2009, O. Konvička leg. & det.
32. Březová, Jamy (7072c4), 48°55'12"N 17°43'50"E, 450–520 m a.s.l.; former loampit, reeds, cattle pasture; 9.vii. and 17.viii.2009, P. Kočárek leg., det. & coll.
33. Lopeník, Grůň NM (7072d1), 48°56'25"N 17°46'28"E, 570–610 m a.s.l.; mesophilous grassland with wet stands of *Carex* spp.; 12.vii., 20.viii.2006, J. Holuša leg., det. & coll.
34. Lopeník, Lopenické sedlo (7072d2), 48°56'17"N 17°48'03"E, 640–770 m a.s.l.; intensive cattle pasture, mesophilous grassland; 9.vii. and 17.viii.2009, P. Kočárek leg., det. & coll.
35. Žitková, Hutě NR (7073a2), 48°59'29"N 17°54'31"E, 450–535 m a.s.l.; mosaic of meadows, pastures, beech woods and marshes, 8.vii. and 16.ix.2007, P. Kočárek leg., det. & coll.; 20.vii.2010, O. Konvička leg. & det.
36. Žitková, Pod Žitkovským vrchem NR (7073a2), 48°59'11"N 17°53'00"E, 490–600 m a.s.l.; meadow dominated by *Arrhenatherum elatius* and *Phleum pratense*, small dry patches with *Galium verum*, solitary oak trees surrounded by rosebush; 1.vii. and 19.viii.2007, J. Holuša leg., det. & coll.
37. Starý Hrozenkov, Skalka quarry (7073a3), 48°59'49"N 17°52'43"E, 490–510 m a.s.l.; former stonepit, grasslands on stony ground, marshes; 8.vii. and 16.ix.2007, P. Kočárek leg., det. & coll.; 8.viii.2009, O. Konvička leg. & det.
38. Starý Hrozenkov, Rolencovo (7073a3), 48°58'11"N 17°51'51"E, 390–500 m a.s.l.; old orchards with ruderal vegetation, partly grazed by cattle; 8.vii. and 16.ix.2007, P. Kočárek leg., det. & coll.
39. Výškovec, Pod Hřibovňou NM (7073c1), 48°55'60"N 17°50'46"E, 600 m a.s.l.; mesophilous meadow with *Gladiolus imbricatus*; 4.vi.2010, O. Konvička leg. & det.
40. Výškovec, Ve Vlčí NR (7073c1), 48°55'45"N, 17°51'26"E, 570–700 m a.s.l.; meadows dominated by *Arrhenatherum elatius* and *Alopecurus pratensis*, orchard; 1.vii. and 19.viii.2007, J. Holuša leg., det. & coll.
41. Radějov, Žerotín NM (7169b4), 48°51'46"N 17°19'39"E, 300–321 m a.s.l.; dry stony meadow with sparse vegetation, *Inula* sp. and *Anthericum ramosum*, open woods of *Quercus pubescens*; 5.vii. and 24.viii.2008, J. Holuša leg., det. & coll.
42. Kněždub, Skleněný vrch hill (7170a2/b1/a4/b3), 48°58'11"N 17°51'51"E, 300–360 m a.s.l.; meadow dominated by *Arrhenatherum elatius*, partly covered with *Brachypodium pinnatum*, surrounded by mixed, oak-dominated forest; 8.vii. and 16.viii.2009, J. Holuša leg., det. & coll.
43. Kněždub, Čertoryje NNR (7170a4/b3), 48°51'34"N 17°24'32"E, 270–442 m a.s.l.; dry meadows with solitary oak trees; 8.vi. and 26.viii.1997, 13.viii.1998, 17.viii.1999 and 19.ix.1999, J. Holuša leg., det. & coll.; 12.vii. and 22.viii.2009, O. Konvička leg. & det.
44. Malá Vrbka, Podlučí (7170b3), 48°52'00"N 17°26'59"E, 325–380 m a.s.l.; dry grassland, lines of fruit trees; 9.vii. and 17.viii.2009, P. Kočárek leg., det. & coll.
45. Radějov, Kůtky NR (7170c2), 48°49'53"N 17°22'57"E, 350–470 m a.s.l.; mosaic of different habitats in dry loamy meadows, patches of sparse vegetation; 6.vii. and 24.viii.2008, J. Holuša leg., det. & coll.
46. Velká nad Veličkou, Zahrady pod Hájem NNR (7171a1/a2), 48°53'29"N 17°32'08"E, 320–480 m a.s.l.; dry meadows with *Inula salicina* and *Arrhenatherum elatius*; 26.viii.1997, 25.vi. and 13.viii.1998, 18.vii.2006, and 9.–10.vii.2007, J. Holuša leg., det. & coll., 30.vi.2008, P. Kočárek leg., det. & coll.

47. Nová Lhota, Jazevčí NNR (7171a2), 48°52'30"N 17°34'22"E, 340–470 m a.s.l.; dry and mesic meadows with orchids and solitary oak trees; 17.viii. and 19.ix.1999, J. Holuša leg., det. & coll.; 11.vii. and 23.vii.2009, O. Konvička leg. & det.
48. Suchov, Ploštiny (7171a2), 48°53'38"N 17°34'40"E, 400 m a.s.l.; dry short-stemmed pasture; 26.vii.2007, O. Konvička leg. & coll.
49. Suchov, Podhradí (7171a2), 48°53'14"N 17°33'28"E, 520–550 m a.s.l.; mesophilous meadow, former pasture, between open deciduous forest and large sheep pasture; 12.vi., 29.vi. and 28.viii.2008, P. Kočárek leg., det. & coll.
50. Javorník, Pahrby (7171a3), 48°51'57"N 17°32'03"E, 320–360 m a.s.l.; dry grassland dominated by *Brachypodium pinnatum*, *Inula salicina* and *Betonica officinalis*; 18.vii.2006, J. Holuša leg., det. & coll.
51. Velká nad Veličkou, loampit (7171a3), 48°51'43"N 17°30'60"E, 350–380 m a.s.l.; abandoned loampit, swamp; 30.vi.2008, P. Kočárek leg., det. & coll.
52. Javorník, Pod Zápovědí (7171a3/a4), 48°51'45"N 17°32'23"E, 320–350 m a.s.l.; meadow dominated by *Arrhenatherum elatius*, sheep pasture, orchards with *Brachypodium pinnatum* stands, shrubs; 2.vii. and 16.viii.2010, J. Holuša leg., det. & coll.
53. Javorník, Jazevčí NNR (7171a4), 48°52'13"N 17°33'36"E, 350–450 m a.s.l.; dry and mesic meadows with orchids and solitary oak trees; 17.viii. and 19.ix.1999, J. Holuša leg., det. & coll.; 11.vii. and 23.vii.2009, O. Konvička leg. & det.
54. Javorník, Megovka (7171a4/b3/c2/d1), 48°50'59"N 17°34'55"E, 470–500 m a.s.l.; mesic meadow, swamp, surrounded by forest, 9.vii. and 17.viii.2009, P. Kočárek leg., det. & coll.
55. Nová Lhota, Přední louky (7171b1), 48°52'56"N 17°36'05"E, 400–500 m a.s.l.; meadow dominated by *Arrhenatherum elatius* with solitary oak trees; 3.vii. and 16.viii.2009, J. Holuša leg., det. & coll.
56. Slavkov, Dolnoněmčanské louky NR (7171b2), 48°53'51"N 17°38'02"E, 510–610 m a.s.l.; mesic meadows dominated by *Arrhenatherum elatius*, spring fens, loamy patches with sparse short-stemmed vegetation; 3.vii. and 16.viii.2010, J. Holuša leg., det. & coll.
57. Nová Lhota, Končiny (7171b3), 48°52'05"N 17°37'05"E, 450–470 m a.s.l.; meadow dominated by *Arrhenatherum elatius*, solitary oak trees, spring fen, surrounded by mixed forest; 17.vii.2006, 6.vii. and 23.viii.2008, J. Holuša leg., det. & coll.
58. Javorník, Dlouhé (7171c1), 48°50'47"N 17°31'14"E, 365 m a.s.l.; wheat field, road-side ruderal vegetation; 9.vii.2007, J. Holuša leg., det. & coll.
59. Javorník, Machová NR (7171c1), 48°49'57"N 17°31'30"E, 370–500 m a.s.l., mesophilous meadow; 17.vii.2006, J. Holuša, P. Kočárek & O. Konvička leg., det. & coll.
60. Javorník, Machová NR (7171c2), 48°49'46"N 17°32'32"E, 430–480 m a.s.l.; mesic meadow; 6.vii. and 23.viii.2008, J. Holuša leg., det. & coll.
61. Javorník, Machová NR (7171c3), 48°49'23"N 17°31'28"E, 450–550 m a.s.l.; meadow dominated by *Arrhenatherum elatius*, wet in lower part; 17.vii.2005, 6.vii. and 23.viii.2008, J. Holuša leg., det. & coll.; 10.vii.2009, O. Konvička leg. & det.
62. Strání, Mechnáčky NM (7172a1), 48°52'59"N 17°42'12"E, 440–510 m a.s.l.; mesic meadow with swamps in lower part; 12.vi., 1.vii. and 28.viii.2008, P. Kočárek leg., det. & coll.
63. Strání, Záhumenice NM (7172a1), 48°53'37"N 17°41'08"E, 350–550 m a.s.l.; mesic meadow, small woods; 4.vii. and 17.viii.2010, J. Holuša leg., det. & coll.
64. Strání, Nová hora NR (7172a2), 48°53'22"N 17°43'23"E, 385–510 m a.s.l.; mesic and dry meadows, swamps, woods, old orchards, shrubs; 12.vi., 1.vii., 28.viii.2008, P. Kočárek leg., det. & coll.
65. Strání, Javorina NNR (7172a3), 48°55'12"N 17°43'50"E, 835–970 m a.s.l.; montane forest, montane short-stemmed grassland with patches of taller vegetation of *Hypericum* sp. and *Vaccinium myrtillus*; 12.vii.2009, J. Holuša leg., det. & coll.; 17.viii.2009, P. Kočárek leg., det. & coll.

Grasshoppers, crickets (Orthoptera), earwigs (Dermaptera), cockroaches (Blattaria), mantises (Mantodea)

Annotated list of species

Localities of recently examined material for each species are ordered according to the number of the collecting site (in parentheses). Published data and unpublished historical data by O. Ginter are cited including the name of the nearest village or town and the corresponding basic field code number in the faunistic and floristic grid mapping system of central Europe (in parentheses).

Order BLATTARIA

Family ECTOBIIDAE

Ectobius lapponicus (Linnaeus, 1758)

Published records. ČEJCHAN (1983): Hrubá Vrbka, Vojšické louky (7170).

Recent material examined. Poteč, Ploščiny NR (3). Valašské Klobouky, Bílé potoky NR (4). Nedašov, Jalovcová stráň NR (9). Nedašov, Kaňoury NM (10). Štítná nad Vláří (14). Sidonie, Bočky (23). Suchov, Šumárníky (25). Horní Němčí, Drahy NR (26). Březová, Jamy (32). Lopeník, Lopenické sedlo (34). Žitková, Hutě NR (35). Starý Hrozenkov, Rolencovo (38). Malá Vrbka, Podlučí (44). Radějov, Kútky NR (45). Javorník, Pod Zápovědí (52). Nová Lhota, Končiny (57). Strání, Mechnáčky NM (62). Strání, Nová hora NR (64). Strání, Záhumenice NM (63).

Distribution and frequency in the Bílé Karpaty PLA: A common species. **General distribution:** Euro-Siberian. **Ecological requirements:** mH, u.–m., sil. **Red List status:** –.

Ectobius sylvestris (Poda, 1761)

Recent material examined. Hostětín, Žleb NM (13).

Distribution and frequency in the Bílé Karpaty PLA: A rare species. **General distribution:** European. **Ecological requirements:** mH, l.–m., sil. **Red List status:** –.

Phyllodromica maculata (Schreber, 1781)

Published records. ČEJCHAN (1983): Kněždub, Šumárník (7170). ČEJCHAN (1986): Javorník, Machová (7171); Velká nad Veličkou, Zahrady pod Hájem (7171). HOLUŠA (1998): Radějov, Kocourkovský kopec hill (7170). CHLÁDEK (1998): Hrubá Vrbka, Vojšické louky (7170); Radějov, Lučina (7170).

Unpublished historical records. Luhačovice (6872/6972) (GINTER in litt.).

Recent material examined. Nedašov, Kaňoury NM (10).

Distribution and frequency in the Bílé Karpaty PLA: A rare species. **General distribution:** European. **Ecological requirements:** mH–X, l.–u., pr.–sil. **Red List status:** –.

***Phyllodromica megerlei* Fieber, 1853**

Published records. HOLUŠA (1998): Radějov, Kocourkovský kopec hill (7170).

Recent material examined. Javorník, Megovka (54). Nová Lhota, Končiny (57).

Distribution and frequency in the Bílé Karpaty PLA: A rare species, known from only four localities in the south-eastern part of the area. **General distribution:** European.

Ecological requirements: mH–X, l.–u., pr.–sil. **Red List status:** –.

Comments. A rare planticolous and xerophilous species widespread in Austria, Czech Republic, Hungary, Italy, Moldova, Slovakia, and Ukraine. In the Czech Republic and Slovakia, it occurs locally in dry grassland with scattered trees and shrubs, at forest margins and especially on banks of streams and rivers (VIDLIČKA 2001). It reaches the northern limit of its distribution range in the Czech Republic (VIDLIČKA & MAJZLAN 1997) and has been found here only in eastern Bohemia and southern Moravia (HOLUŠA 1998).

Order MANTODEA

Family MANTIDAE

***Mantis religiosa* Linnaeus, 1758**

(VU)

Published records. CHOBOT (2011): Hostětín (6973); Brumov-Bylnice (6974); Horní Němčí (7071); Žitková (7073); Hrubá Vrbka (7170). JONGEPIEROVÁ *et al.* (1992): Kněždub, Čertoryje NNR (7170); Horní Němčí, Drahy NR (7071). MACKOVČIN & JATIOVÁ (2002): Horní Němčí, Drahy NR (7071); Suchov, Búrová NNM (7071); Slavkov, Dolnoněmčanské louky NR (7071); Radějov, Kútky NR (7070); U Zvonice NM (7072); Žerotín NR (7169).

Recent material examined. Nedašov, Jalovcová stráž NR (9). Nedašov, Kaňoury NM (10). Kladná-Žilín (11). Hostětín, Žleb NM (13). Štítná nad Vláří (14). Bylnice, Na Stráži (17). Bylnice (21). Suchov, Šumárníky (25). Horní Němčí, Drahy NR (26). Horní Němčí, Za lesem NM (27). Žitková, Hutě NR (35). Vyškovec, Ve Vlčí NR (40). Kněždub, Skleněný vrch (42). Kněždub, Čertoryje NNR (43). Malá Vrbka, Podlučí (44). Radějov, Kútky NR (45). Velká nad Veličkou, Zahrady pod Hájem NNR (46). Suchov, Ploštiny (48). Suchov, Podhradí (49). Javorník – Pahrby (50). Velká nad Veličkou, loampit (51). Javorník, Pod Zápovědí (52). Javorník, Jazevějí NNR (53). Javorník, Machová NR (60). Strání, Mechnáčky NM (62). Strání, Nová hora NR (64).

Distribution and frequency in the Bílé Karpaty PLA: A common species. **General distribution:** Palaearctic. **Ecological requirements:** X, l.–u., pr.–des. **Red List status:** VU.

Order ORTHOPTERA: ENSIFERA

Family GRYLLIDAE

***Acheta domestica* Linnaeus, 1758**

Recent material examined. Velká nad Veličkou, Zahrady pod Hájem NNR (46).

Distribution and frequency in the Bílé Karpaty PLA: A synanthropic species, only rarely found in nature. **General distribution:** Cosmopolitan. **Ecological requirements:** Synanthropic. **Red List status:** –.

Grasshoppers, crickets (Orthoptera), earwigs (Dermaptera), cockroaches (Blattaria), mantises (Mantodea)

Gryllus campestris Linnaeus, 1758

Published records. ČEJCHAN (1983): Radějov, Veselka (7170); Hrubá Vrbka, Vojšické louky (7170); Radějov, Lučina (7170). ČEJCHAN (1986): Velká nad Veličkou, Zahrady pod Hájem (7171); Javorník, Jazevčí (7171). CHLÁDEK (2002): Kněždub, Čertoryje (7170). CHLÁDEK (2003): Velká nad Veličkou, Zahrady pod Hájem (7171). KOČÁREK & CHOBOT (2011): Brumov-Bylnice (6974), Kladná-Žilín (6972), Lopeník (7072).

Recent material examined. Petrůvka, U Petrůvky NM (1). Nedašova Lhota (5). Nedašova Lhota, Paseky (7). Nedašov, Jalovcová stráň NR (9). Nedašov, Kaňoury NM (10). Kladná-Žilín (11). Hostětín, Žleb NM (13). Štítná nad Vláří (14). Brumov, Svata Anna (16). Bylnice, Na Stráži (17). Bylnice (18). Sidonie, Bočky (23). Suchov, Šumárníky (25). Horní Němčí, Drahy NR (26). Březová, Cestiska NM (30). Březová, Jamy (32). Lopeník, Lopenické sedlo (34). Žitková, Hutě NR (35). Žitková, Pod Žitkovským vrchem NR (36). Starý Hrozenkov, Skalka quarry (37). Starý Hrozenkov, Rolencovo (38). Vyskovec, Ve Vlčí NR (40). Kněždub, Čertoryje NNR (43). Malá Vrbka, Podlučí (44). Radějov, Kútky NR (45). Velká nad Veličkou, Zahrady pod Hájem NNR (46). Suchov, Podhradí (49). Javorník, Pahrby (50). Velká nad Veličkou, loampit (51). Javorník, Pod Zápovědí (52). Nová Lhota, Přední louky (55). Strání, Mechnáčky NM (62). Strání, Nová hora NR (64).

Distribution and frequency in the Bílé Karpaty PLA: A common species. **General distribution:** Palaearctic. **Ecological requirements:** M–X, l.–u., pr.–des. **Red List status:** –.

Nemobius sylvestris (Bosc, 1792)

Published records. CHLÁDEK (2002): Kněždub, Čertoryje (7170).

Recent material examined. Kladná-Žilín (11). Hostětín, Žleb NM (13). Brumov, Březová (15). Kněždub, Skleněný vrch (42). Kněždub, Čertoryje NNR (43). Radějov, Kútky NR (45). Suchov, Podhradí (49).

Distribution and frequency in the Bílé Karpaty PLA: A locally common species. **General distribution:** Europe and North Africa. **Ecological requirements:** M–X, l.–u., sil. **Red List status:** –.

Comments. *Nemobius sylvestris* is a post-glacial immigrant from a western European refugium of an Atlantic origin (ČEJCHAN 1986). In the Czech Republic, it occurs only in warm areas (KOČÁREK *et al.* 2005). The easternmost limit of its distribution passes through western Slovakia (ČEJCHAN 1986); its occurrence is patchy on the edge of the distribution range (P. Kočárek & J. Holuša, personal observation). *Nemobius sylvestris* lives in leaf litter in dry, open forests or at forest margins (KOČÁREK *et al.* 2005). Solitary oaks scattered in meadows are a typical habitat of the species in the White Carpathians.

Oecanthus pellucens (Scopoli, 1763)

Recent material examined. Suchov, Šumárníky (25). Horní Němčí, Drahy NR (26). Malá Vrbka, Podlučí (44). Velká nad Veličkou, Zahrady pod Hájem NNR (46). Velká nad Veličkou, loampit (51). Javorník, Machová NR (59, 60, 61).

Distribution and frequency in the Bílé Karpaty PLA: A rare species, occurring locally in the south-eastern part of the area. **General distribution:** Palaearctic (widespread in North Africa, southern and central Europe and western Siberia). **Ecological requirements:** X, l.–u., pr.–des., arbs.–arb. **Red List status:** –.

Comments. In the Czech Republic, *O. pellucens* is rare and local in Bohemia, while it is a common species in southern Moravia. It occurs here in dry grassland with scattered

trees and shrubs and in vineyards; the imagines concentrate on shrubs and tall herbs (KOČÁREK *et al.* 2005). The species has been expanding in the Czech Republic in recent years (J. Holuša, P. Kočárek observ.). In the White Carpathians, it has been known only since last ten years and continues to spread to new localities.

Family GRYLLOTALPIDAE

Grylotalpa grylotalpa (Linnaeus, 1758)

Published records. MARHOUL (2011): Dolní Němčí (7071), Vyškovec (7072/7073), Vápenice (7073).

Recent material examined. Strání, Hrnčárky NM (31). Velká nad Veličkou, loampit (51).

Distribution and frequency in the Bílé Karpaty PLA: Occurring locally. **General distribution:** Palaearctic. **Ecological requirements:** H., l.–u., rip. **Red List status:** –.

Family MYRMECOPHILIDAE

Myrmecophilus acervorum (Panzer, 1799)

Published records. BEZDĚČKA *et al.* (2000): Bojkovice (6972), Horní Němčí (7071), Starý Hrozenkov (7073), Velká nad Veličkou (7171).

Recent material examined. Svatý Štěpán (24). Starý Hrozenkov, Skalka quarry (37).

Distribution and frequency in the Bílé Karpaty PLA: A probably common, but overlooked species. **General distribution:** European. **Ecological requirements:** Myrmecophilous, l.–u., pr.–des. **Red List status:** –.

Family TETTIGONIIDAE

Barbitistes constrictus Brunner von Wattenwyl, 1878

Published records. HOLUŠA (2000): Poteč, Ploštiny (6874). CHLÁDEK (2002): Kněždub, Čertoryje (7170). GALVAGNI & FONTANA (2000) and CHLÁDEK (2003): Velká nad Veličkou, Zahrady pod Hájem (7171).

Recent material examined. Poteč, Ploštiny NR (3). Nedašova Lhota, Paseky (7). Nedašov, Jalovcová stráž NR (9). Kladná-Žilín (11). Hostětín, Žleb NM (13). Štítná nad Vláří (14). Sidonie, Bočky (23). Suchoy, Šumárníky (25). Komňa, Lom Rasová NM (28). Březová, Cestiska NM (30). Vyškovec, Ve Vlčí NR (40). Javorník, Pod Zápovědí (52). Javorník, Megovka (54). Slavkov, Dolnoněmčanské louky NR (56). Strání, Nová hora NR (64).

Distribution and frequency in the Bílé Karpaty PLA: A common species. **General distribution:** European. **Ecological requirements:** mH, l.–m., sil., arb. **Red List status:** –.

Conocephalus fuscus (Fabricius, 1793)

Published records. ČEJCHAN (1983): Radějov, Machnác hill [cited as Machač] (7170); Hrubá Vrbka, Vojšické louky (7170). CHLÁDEK (2002): Kněždub, Čertoryje (7170).

Grasshoppers, crickets (Orthoptera), earwigs (Dermaptera), cockroaches (Blattaria), mantises (Mantodea)

Recent material examined. Sidonie, Bočky (23). Březová, Jamy (32). Kněždub, Čertoryje NNR (43). Malá Vrbka, Podlučí (44). Radějov, Kútky NR (45). Velká nad Veličkou, Zahrady pod Hájem NNR (46). Javorník, Dlouhé (58). Strání, Mechnáčky NM (62).

Distribution and frequency in the Bílé Karpaty PLA: A locally abundant species. **General distribution:** Palaearctic. **Ecological requirements:** H, rip., l.–u., pr. **Red List status:** –.

***Decticus verrucivorus* (Linnaeus, 1758)**

Published records. ČEJCHAN (1983): Radějov, Veselka (7170); Žitková (7073). CHLÁDEK (2002): Kněždub, Čertoryje (7170). CHLÁDEK (2003): Suchov, Búrová (7071); Velká nad Veličkou, Zahrady pod Hájem (7171).

Unpublished historical records. Javorník (7171), 4.ix.1965, 1 ♂. Hluk, Kobyly hlava (7071), 6.ix.1967, 1 ♀. Luhačovice (6872/6972), 10.vii.1933, 3 ♂♂ 3 ♀♀. Lopeník, Velký Lopeník Mt. (7072), 24.viii.1950, 1 ♂. Radějov, Veselka (7170), 9.viii.1952, 1 ♂. All O. Ginter leg., J. Holuša det., coll. Museum of South-eastern Moravia, Zlín. Blatnička (7071); Radějov (7170) (GINTER in litt.).

Recent material examined. Poteč, Ploštiny NR (3). Valašské Klobouky, Bílé potoky NR (4). Nedašova Lhota (5). Nedašova Lhota, Paseky (7). Nedašova Lhota, Zadky (8). Nedašov, Jalovcová stráň NR (9). Nedašov, Kaňoury NM (10). Hostětín, Žleb NM (13). Bylnice, Na Stráži (17). Sidonie, Bočky (23). Horní Němčí, Drahy NR (26). Lopeník, Lopenické sedlo (34). Žitková, Hutě NR (35). Starý Hrozenkov, Skalka quarry (37). Starý Hrozenkov, Rolencovo (38). Malá Vrbka, Podlučí (44). Radějov, Kútky NR (45). Velká nad Veličkou, Zahrady pod Hájem NNR (46). Suchov, Podhradí (49). Javorník, Pahrby (50). Javorník, Megovka (54). Nová Lhota, Končiny (57). Javorník, Machová NR (60). Strání, Mechnáčky NM (62). Strání, Nová hora NR (64). Strání, Javorina NNR (65).

Distribution and frequency in the Bílé Karpaty PLA: A common species. **Ecological requirements:** H–X, l.–u., pr. **General distribution:** Euro-Siberian. **Red List status:** –.

***Isophya kraussi* Brunner von Wattenwyl, 1878**

Published records. ČEJCHAN (1983): Radějov, Veselka (7170); Hrubá Vrbka, Vojšické louky (7170); Strání, Javořina (7172); Strání (7172); Lopeník, Koprník (7072); Žitková (7073). ČEJCHAN (1986): Javorník, Jazevčí (7171). CHLÁDEK (2002): Kněždub, Čertoryje (7170). CHLÁDEK (2003): Suchov, Búrová (7071); Velká nad Veličkou, Zahrady pod Hájem (7171).

Recent material examined. Poteč, Ploštiny NR (3). Valašské Klobouky, Bílé potoky NR (4). Nedašova Lhota, Paseky (7). Nedašov, Jalovcová stráň NR (9). Nedašov, Kaňoury NM (10). Hostětín, Žleb NM (13). Nedašov, Šumlatová NM (19). Sidonie, Bočky (23). Suchov, Šumárníky (25). Horní Němčí, Drahy NR (26). Březová, Cestiska NM (30). Lopeník, Grůň NM (33). Lopeník, Lopenické sedlo (34). Žitková, Hutě NR (35). Žitková, Pod Žitkovským vrchem NR (36). Starý Hrozenkov, Skalka quarry (37). Vyškovec, Ve Vlčí NR (40). Kněždub, Čertoryje NNR (43). Velká nad Veličkou, Zahrady pod Hájem NNR (46). Suchov, Podhradí (49). Javorník, Megovka (54). Nová Lhota, Přední louky (55). Slavkov, Dolnoněmčanské louky NR (56). Nová Lhota, Končiny (57). Javorník, Machová NR (59, 61). Strání, Mechnáčky NM (62). Strání, Nová hora NR (64).

Distribution and frequency in the Bílé Karpaty PLA: A common species. **General distribution:** Central European. **Ecological requirements:** M, l.–m., pr. **Red List status:** –.

Isophya pienensis Mařan, 1954

Recent material examined. Strání, Javorina NNR (65).

Distribution and frequency in the Bílé Karpaty PLA: A very rare species, recorded at a single locality; four specimens were observed of which one was collected to be deposited as a voucher specimen in coll. P. Kočárek. **General distribution:** Carpathian.

Ecological requirements: M, u.–m., pr., arbs. **Red List status:** –.

Comments. Described relatively recently from the Pieniny Mts. in Slovakia (MAŘAN 1954). It was found in the Czech Republic for the first time in 2004 in a few localities in the Moravian-Silesian Beskids [Moravskoslezské Beskydy Mts.] (KOČÁREK & HOLUŠA 2006). Generally, it is a rare and little-known species that seeks taller herbs and shrubs, in contrast with the related *I. kraussii* which lives on the ground or in low herbaceous vegetation (KOČÁREK & HOLUŠA, personal observation). The identification is difficult; *I. pienensis* is discernible especially by its characteristic stridulation and structure of the stridulatory apparatus (KOČÁREK *et al.* 2005).

Leptophyes albobittata (Kollar, 1833)

Published records. ČEJCHAN (1983): Jestřabí (6973); Svatý Štěpán (6974); Horní Němčí (7071); Starý Hrozenkov (7073); Žitková (7073); Radějov, Veselka (7170); Hrubá Vrbka, Vojšické louky (7170); Radějov, Lučina (7170); Strání (7172). ČEJCHAN (1986): Velká nad Veličkou, Zahrady pod Hájem (7171); Javorník, Jazevčí (7171). CHLÁDEK (2002): Kněždub, Čertoryje (7170). CHLÁDEK (2003): Suchov, Búrová (7071); Velká nad Veličkou, Zahrady pod Hájem (7171).

Unpublished historical records. Luhačovice (6872/6972); Lopeník, Velký Lopeník Mt. (7072); Radějov (7170); Radějov, Veselka (7170); Javorník (7171); Strání, Javorina NNR (7172) (GINTER in litt.).

Recent material examined. Petrůvka, U Petrůvky NM (1). Nedašova Lhota (5). Nedašov, Jalovcová stráž NR (9). Nedašov, Kaňoury NM (10). Kladná-Žilín (11). Divnice (12). Hostětín, Žleb NM (13). Štítná nad Vláří (14). Bylnice, Na Stráži (17). Bylnice (21). Suchov, Šumárníky (25). Horní Němčí, Drahy NR (26). Komňa, Lom Rasová NM (28). Březová, Cestiska NM (30). Březová, Jamy (32). Lopeník, Grůň NM (33). Lopeník, Lopenické sedlo (34). Žitková, Hutě NR (35). Žitková, Pod Žitkovským vrchem NR (36). Starý Hrozenkov, Skalka quarry (37). Starý Hrozenkov, Rolencovo (38). Vyškovec, Ve Vlči NR (40). Kněždub, Skleněný vrch (42). Kněždub, Čertoryje NNR (43). Malá Vrbka, Podlučí (44). Velká nad Veličkou, Zahrady pod Hájem NNR (46). Suchov, Podhradí (49). Velká nad Veličkou, loampit (51). Javorník, Pod Zápovědí (52). Javorník, Jazevčí NNR (53). Javorník, Megovka (54). Nová Lhota, Přední louky (55). Nová Lhota, Končiny (57). Javorník, Dlouhé (58). Javorník, Machová NR (59, 60, 61). Strání, Mechnáčky NM (62). Strání, Záhumenice NM (63). Strání, Nová hora NR (64).

Distribution and frequency in the Bílé Karpaty PLA: A common species. **General distribution:** Euro-Siberian. **Ecological requirements:** M–X, l.–u., pr.–des. **Red List status:** –.

Meconema thalassinum (De Geer, 1773)

Published records. ČEJCHAN (1983): Radějov, Veselka (7170); Radějov, Lučina (7170). ČEJCHAN (1986): Velká nad Veličkou, Zahrady pod Hájem (7171); Javorník, Jazevčí (7171). CHLÁDEK (2002): Kněždub, Čertoryje (7170).

Grasshoppers, crickets (Orthoptera), earwigs (Dermaptera), cockroaches (Blattaria), mantises (Mantodea)

Unpublished historical records. Luhačovice (6872/6972), 20.viii.1935, 1 ♀, O. Ginter leg., J. Holuša det., coll. Museum of South-eastern Moravia, Zlín.

Recent material examined. Petrůvka, U Petrůvky NM (1). Poteč, Ploščiny NR (3). Valašské Klobouky, Bílé potoky NR (4). Hostětín, Žleb NM (13). Štítná nad Vláří (14). Nedašov, Šumlatová NM (19). Suchov, Šumárníky (25). Horní Němčí, Drahy NR (26). Březová, Cestiska NM (30). Březová, Jamy (32). Žitková, Hutě NR (35). Starý Hrozenkov, Skalka quarry (37). Starý Hrozenkov, Rolencovo (38). Vyškovec, Ve Vlčí NR (40). Kněždub, Skleněný vrch (42). Kněždub, Čertoryje NNR (43). Malá Vrbka, Podlučí (44). Radějov, Kútky NR (45). Velká nad Veličkou, Zahrady pod Hájem NNR (46). Nová Lhota, Jazevčí NNR (47). Suchov, Podhradí (49). Javorník, Pod Záповědí (52). Javorník, Jazevčí NNR (53). Nová Lhota, Přední louky (55). Slavkov, Dolnoněmčanské louky NR (56). Javorník, Machová NR (59, 60, 61). Strání, Mechnáčky NM (62). Strání, Záhumenice NM (63). Strání, Nová hora NR (64).

Distribution and frequency in the Bílé Karpaty PLA: A common species. **General distribution:** European. **Ecological requirements:** M, l.–m., sil., arbs.–arb. **Red List status:** –.

Metrioptera bicolor (Philippi, 1830)

Published records. ČEJCHAN (1983): Svatý Štěpán (6974); Horní Němčí (7071); Žitková (7073); Radějov, Veselka (7170); Radějov, Machnáč hill (7170); Hrubá Vrbka, Vojšické louky (7170); Radějov, Lučina (7170); Strání (7172); Starý Hrozenkov (7172). ČEJCHAN (1986): Velká nad Veličkou, Zahrady pod Hájem (7171); Javorník, Jazevčí (7171). CHLÁDEK (2002): Kněždub, Čertoryje (7170). CHLÁDEK (2003): Suchov, Búrová (7071); Velká nad Veličkou, Zahrady pod Hájem (7171).

Unpublished historical records. Luhačovice (6872/6972), 10.vii.1933, 2 ♀♀. Radějov (7170), 26.viii.1968, 2 ♂. Radějov, Veselka (7170), 31.vii.1970, 2 ♂♂ 2 ♀♀. Javorník (7171), 4.ix.1965, 3 ♀♀. All O. Ginter leg., J. Holuša det., coll. Museum of South-eastern Moravia, Zlín. Lopeník, Velký Lopeník Mt. (7072); Strání, Javorina NNR (7172) (GINTER in litt.).

Recent material examined. Poteč, Ploščiny NR (3). Valašské Klobouky, Bílé potoky NR (4). Nedašov, Jalovcová stráž NR (9). Štítná nad Vláří (14). Bylnice, Na Stráži (17). Suchov, Šumárníky (25). Horní Němčí, Drahy NR (26). Březová, Cestiska NM (30). Starý Hrozenkov, Skalka quarry (37). Vyškovec, Ve Vlčí NR (40). Kněždub, Skleněný vrch (42). Kněždub, Čertoryje NNR (43). Malá Vrbka, Podlučí (44). Radějov, Kútky NR (45). Velká nad Veličkou, Zahrady pod Hájem NNR (46). Suchov, Podhradí (49). Javorník, Pahrby (50). Velká nad Veličkou, loampit (51). Javorník, Pod Záповědí (52). Nová Lhota, Přední louky (55). Strání, Nová hora NR (64).

Distribution and frequency in the Bílé Karpaty PLA: A very common species. **General distribution:** Euro-Siberian. **Ecological requirements:** X, l.–u., pr.–des. **Red List status:** –.

Metrioptera brachyptera (Linnaeus, 1761)

Published records. ČEJCHAN (1983): Radějov, Veselka (7170). ČEJCHAN (1986): Javorník, Jazevčí (7171). CHLÁDEK (2002): Kněždub, Čertoryje (7170).

Unpublished historical records. Radějov, Veselka (7170); Javorník (7171) (GINTER in litt.).

Recent material examined. Suchov, Šumárníky (25). Velká nad Veličkou, Zahrady pod Hájem NNR (46). Nová Lhota, Jazevčí NNR (47). Javorník, Jazevčí NNR (53). Javorník, Megovka (54).

Distribution and frequency in the Bílé Karpaty PLA: A very local and rare species. **General distribution:** Euro-Siberian. **Ecological requirements:** H–mH, u.–m., pr. **Red List status:** –.

***Metriopectera roeselii* (Hagenbach, 1822)**

Published records. ČEJCHAN (1983): Jestřabí (6973); Lopeník (7072); Starý Hrozenkov (7073); Žitková (7073); Radějov, Veselka (7170); Radějov, Machnáč hill (7170); Hrubá Vrbka, Vojšické louky (7170); Strání (7172). ČEJCHAN (1986): Velká nad Veličkou, Zahrady pod Hájem (7171); Javorník, Jazevečí (7171). CHLÁDEK (2002): Kněždub, Čertoryje. CHLÁDEK (2003): Suchov, Búrová (7071); Velká nad Veličkou, Zahrady pod Hájem (7171).

Unpublished historical records. Luhačovice (6872/6972), 10.vii.1933, 5 ♂♂ 3 ♀♀. Strážnice (7069/7169), 8.ix.1943, 1 ♂. Radějov, Veselka (7170), 25.vii.1972, 1 ♀. Javorník (7171), 17.viii.1967, 1 ♀. Strání, Javorina NNR (7172), 27.viii.1948, 1 ♀. All O. Ginter leg., J. Holuša det., coll. Museum of South-eastern Moravia, Zlín.

Recent material examined. Petrůvka, U Petrůvky NM (1). Poteč, Ploščiny NR (3). Valašské Klobouky, Bílé potoky NR (4). Nedašova Lhota, Paseky (7). Nedašov, Jalovcová stráň NR (9). Nedašov, Kaňoury NM (10). Kladná-Žilín (11). Hostětín, Žleb NM (13). Štítná nad Vláří (14). Bylnice, Na Stráži (17). Nedašov, Šumlatová NM (19). Nedašov, Pod Cigánem NM (22). Sidonie, Bočky (23). Suchov, Šumárníky (25). Horní Němčí, Drahy NR (26). Komňa, Lom Rasová NM (28). Březová, Cestiska NM (30). Březová, Jamy (32). Lopeník, Grůň NM (33). Lopeník, Lopenické sedlo (34). Žitková, Hutě NR (35). Žitková, Pod Žitkovským vrchem NR (36). Starý Hrozenkov, Skalka quarry (37). Starý Hrozenkov, Rolencovo (38). Vyškovec, Ve Vlčí NR (40). Kněždub, Skleněný vrch (42). Kněždub, Čertoryje NNR (43). Malá Vrbka, Podlučí (44). Radějov, Kútky NR (45). Velká nad Veličkou, Zahrady pod Hájem NNR (46). Nová Lhota, Jazevečí NNR (47). Suchov, Podhradí (49). Javorník, Pahrby (50). Velká nad Veličkou, loampit (51). Javorník, Pod Zápovědí (52). Javorník, Jazevečí NNR (53). Javorník, Megovka (54). Nová Lhota, Přední louky (55). Slavkov, Dolnoněmčanské louky NR (56). Nová Lhota, Končiny (57). Javorník, Dlouhé (58). Javorník, Machová NR (59, 60, 61). Strání, Mechnáčky NM (62). Strání, Záhumenice NM (63). Strání, Nová hora NR (64). Strání, Javorina NNR (65).

Distribution and frequency in the Bílé Karpaty PLA: A common species. **General distribution:** Euro-Siberian. **Ecological requirements:** M, l.–m., pr. **Red List status:** –.

***Phaneroptera falcata* (Poda, 1761)**

Published records. GINTER (1951): Strání, Javorina NNR (7172). ČEJCHAN (1983): Kněždub, Čertoryje (7170); Radějov, Veselka (7170); Hrubá Vrbka, Vojšické louky (7170); Radějov, Lučina (7170). ČEJCHAN (1986): Velká nad Veličkou, Zahrady pod Hájem (7171); Javorník, Jazevečí (7171); Javorník, Machová (7171). CHLÁDEK (2002): Kněždub, Čertoryje (7170). CHLÁDEK (2003): Velká nad Veličkou, Zahrady pod Hájem (7171). KOČÁREK *et al.* (2008): Nedašov (6874); Nedašova Lhota (6874); Suchov (7071); Starý Hrozenkov (7073); Javorník (7171); Velká nad Veličkou (7171).

Unpublished historical records. Luhačovice (6872/6972), vii.1935 and 20.viii.1935, 5 ♂♂ 4 ♀♀. Radějov (7170), 26.viii.1963, 1 ♂. Javorník (7171), 17.viii.1967, 1 ♂. Strání, Javorina NNR (7172), 27.viii.1948, 1 ♀. All O. Ginter leg., J. Holuša det., coll. Museum of South-eastern Moravia, Zlín.

Recent material examined. Petrůvka, U Petrůvky NM (1). Vlachovice, U Kovaříků (2). Nedašova Lhota (5). Nedašov, Kaňoury NM (10). Kladná-Žilín (11). Štítná nad Vláří (14). Bylnice, Na Stráži (17). Sidonie, Bočky (23). Suchov, Šumárníky (25). Horní Němčí, Drahy NR (26). Horní Němčí, Za lesem NM (27). Komňa, Lom Rasová NM (28). Bystřice pod Lopeníkem, quarry (29). Březová, Cestiska NM (30). Starý Hrozenkov, Skalka quarry (37). Starý Hrozenkov, Rolencovo (38). Vyškovec, Ve Vlčí NR (40). Kněždub, Skleněný vrch (42). Kněždub, Čertoryje NNR (43). Malá Vrbka, Podlučí (44). Velká nad Veličkou, Zahrady pod Hájem NNR (46). Nová Lhota, Jazevečí NNR (47). Suchov, Podhradí (49). Javorník, Pahrby (50). Velká nad Veličkou, loampit (51). Javorník, Pod Zápovědí (52). Javorník, Jazevečí NNR (53). Nová Lhota, Přední louky (55). Nová Lhota, Končiny (57). Javorník, Machová NR (59, 61). Strání, Nová hora NR (64).

Distribution and frequency in the Bílé Karpaty PLA: A common species. **General distribution:** Euro-Siberian. **Ecological requirements:** M–X, l.–u., arbs.–arb. **Red List status:** –.

Grasshoppers, crickets (Orthoptera), earwigs (Dermaptera), cockroaches (Blattaria), mantises (Mantodea)

Pholidoptera griseoptera (De Geer, 1773)

Published records. ČEJCHAN (1983): Horní Němčí (7071); Lopeník (7072); Starý Hrozenkov (7073); Žitková (7073); Radějov, Veselka (7170); Hrubá Vrbka, Vojsické louky (7170); Radějov, Lučina (7170); Strání (7172). ČEJCHAN (1986): Velká nad Veličkou, Zahrady pod Hájem (7171); Javorník, Jazevčí (7171). CHLÁDEK (2002): Kněždub, Čertoryje (7170). CHLÁDEK (2003): Velká nad Veličkou, Zahrady pod Hájem (7171).

Unpublished historical records. Luhačovice (6872/6972), 10.vii.1933, 1 ♀. Lopeník, Velký Lopeník Mt. (7072), 24.viii.1950, 1 ♂. Radějov, Veselka (7170), 31.vii.1970, 1 ♂. Radějov (7170), 26.viii.1963, 1 ♂ 2 ♀♀. Javorník (7171), 29.vii.1969, 1 ♂ 1 ♀. Strání, Javorina NNR (7172), 28.viii.1959, 1 ♂ 3 ♀♀. All O. Ginter leg., J. Holuša det., coll. Museum of South-eastern Moravia, Zlín.

Recent material examined. Petrůvka, U Petrůvky NM (1). Poteč, Plošiny NR (3). Valašské Klobouky, Bílé potoky NR (4). Nedašova Lhota, Paseky (7). Nedašov, Jalovcová stráž NR (9). Nedašov, Kaňoury NM (10). Kladná-Žilín (11). Hostětín, Žleb NM (13). Štítná nad Vláří (14). Bylnice, Na Stráži (17). Nedašov, Šumlatová NM (19). Brumov, Holý vrch (20). Nedašov, Pod Cigánem NM (22). Sidonie, Bočky (23). Suchov, Šumárníky (25). Horní Němčí, Drahy NR (26). Komňa, Lom Rasová NM (28). Březová, Cestiska NM (30). Březová, Jamy (32). Lopeník, Grůň NM (33). Lopeník, Lopenické sedlo (34). Žitková, Hutě NR (35). Starý Hrozenkov, Skalka quarry (37). Starý Hrozenkov, Rolencovo (38). Vyškovec, Ve Vlčí NR (40). Kněždub, Skleněný vrch (42). Kněždub, Čertoryje NNR (43). Malá Vrbka, Podlučí (44). Radějov, Kůtky NR (45). Velká nad Veličkou, Zahrady pod Hájem NNR (46). Nová Lhota, Jazevčí NNR (47). Suchov, Podhradí (49). Javorník, Pahrby (50). Velká nad Veličkou, loampit (51). Javorník, Pod Zápovědí (52). Javorník, Jazevčí NNR (53). Javorník, Megovka (54). Nová Lhota, Přední louky (55). Slavkov, Dolnoněmčanské louky NR (56). Nová Lhota, Končiny (57). Javorník, Machová NR (59, 60, 61). Strání, Mechnáčky NM (62). Strání, Záhumenice NM (63). Strání, Nová hora NR (64). Strání, Javorina NNR (65).

Distribution and frequency in the Bílé Karpaty PLA: A very common species.

General distribution: Europe and Asia Minor. **Ecological requirements:** mH, l.–m., sil.

Red List status: –.

Platycleis albopunctata grisea (Goeze, 1778)

Published record. ČEJCHAN (1986): Velká nad Veličkou, Zahrady pod Hájem (7171).

Unpublished historical records. Lopeník, Velký Lopeník (7072) (GINTER in litt.).

Recent material examined. Poteč, Plošiny NR (3). Nedašov, Kaňoury NM (10). Štítná nad Vláří (14). Bylnice, Na Stráži (17). Starý Hrozenkov, Skalka quarry (37). Radějov, Kůtky NR (45). Javorník, Pahrby (50). Velká nad Veličkou, loampit (51).

Distribution and frequency in the Bílé Karpaty PLA: Occurring locally on dry, sparsely vegetated hillsides and in quarries and sandpits. **General distribution:** A Pannonian subspecies. **Ecological requirements:** X, l.–u., des. **Red List status:** –.

Comments. Locally abundant in warmer regions in the eastern part of the Czech Republic; it lives in very dry places with sparse vegetation (KOČÁREK *et al.* 2005).

Poecilimon intermedius (Fieber, 1853)

(VU)

Published record. CHLÁDEK (2003): Velká nad Veličkou, Zahrady pod Hájem (7171).

Recent material examined. Velká nad Veličkou, Zahrady pod Hájem NNR (46).

Distribution and frequency in the Bílé Karpaty PLA: A very rare species, known from only a single locality. **General distribution:** Euro-Siberian. **Ecological requirements:** M–X, l.–u., pr.–des. **Red List status:** VU.

Comments. In the Czech Republic, *P. intermedius* is a very rare, relict species known from only two localities: Kamenný vrch hill near Hustopeče and Velká nad Veličkou in the White Carpathians (CHLÁDEK 1980, 2003). The latter locality is in contact with the occurrence of the species in Slovakia (ISO 2011). The ecological requirements are unknown; the species is obligatory parthenogenetic, males have not been found yet.

***Polysarcus denticauda* (Charpentier, 1825) (CR)**

Published records. ŠULOVÁ (1958): Radějov, Veselka (7170); between Radějov and Tvarožná Lhota (7170). ČEJCHAN (1983): Hrubá Vrbka, Vojšické louky (7170); Radějov, Veselka (7170); Strání (7172). GÖRTLER (1944), ČEJCHAN (1986): Javorník, Jazevčí (7171). CHLÁDEK (2002): Kněždub, Čertoryje (7170). CHLÁDEK (2003): Suchov, Búrová (7071); Velká nad Veličkou, Zahrady pod Hájem (7171). KONVIČKA (2010): Nedašov, Kaňoury (6874).

Unpublished historical records. Radějov, Veselka (7170), 31.vii.1970, 3 ♂♂; 27.vii.1971, 3 ♂♂ 1 ♀; all O. Ginter leg., J. Holuša det., coll. Museum of South-eastern Moravia, Zlín.

Recent material examined. Nedašova Lhota, Paseky (7). Nedašov, Kaňoury NM (10). Suchov, Šumárníky (25). Žitková, Pod Žitkovským vrchem NR (36). Výškovec, Pod Hribovňou NM (39). Výškovec, Ve Vlčí NR (40). Kněždub, Čertoryje NNR (43). Radějov, Kútky NR (45). Javorník, Pod Zápovědí (52). Javorník, Jazevčí NNR (53). Nová Lhota, Končiny (57). Javorník, Machová NR (60). Strání, Mechnáčky NM (62).

Distribution and frequency in the Bílé Karpaty PLA: Locally common. **General distribution:** European. **Ecological requirements:** M, u.–m., pr. **Red List status:** CR.

Comments. *Polysarcus denticauda* is a montane species widespread in the Pyrenees, Alps and Carpathians (KOČÁREK *et al.* 2005). From Moravia, it was reported for the first time by GÖRTLER (1944) from the environs of the village of Javorník nad Veličkou (7171) in the White Carpathians, although the publication incorrectly cites the Velký Javorník Mt. in the Javorníky Mts. (HOLUŠA 1997). The number of known localities in the White Carpathians is still increasing (e.g. KONVIČKA 2010). *Polysarcus denticauda* has also been found in the Jeseníky Mts. (KOČÁREK *et al.* 2009) and in abundance in the environs of the town of Jičín in Bohemia (P. Marhoul, pers. comm.). The ecological demands of *P. denticauda* are little known and are probably quite specific, especially mesoclimatically. It is a herbivorous, probably polyphagous species that seems to prefer mesic meadows with tall and dense vegetation, while the plant species composition of the vegetation is probably not so important (HOLUŠA *et al.* 2007).

***Tettigonia cantans* (Füssli, 1775)**

Published records. ČEJCHAN (1983): Radějov, Veselka (7170); Žitková (7073). CHLÁDEK (2002): Kněždub, Čertoryje (7170). CHLÁDEK (2003): Velká nad Veličkou, Zahrady pod Hájem NNR (7171).

Unpublished historical records. Luhačovice (6872/6972); Lopeník, Velký Lopeník Mt. (7072); Javorník (7170); Radějov, Veselka (7170) (GINTER in litt.).

Recent material examined. Petrůvka, U Petrůvky NM (1). Poteč, Ploštiny NR (3). Valašské Klobouky, Bílé potoky NR (4). Nedašova Lhota, Paseky (7). Nedašov, Jalovcová stráž NR (9). Nedašov, Kaňoury NM (10). Kladná-Žilín (11). Hostětín, Žleb NM (13). Nedašov, Šumlatová NM (19). Nedašov, Pod Cigánem NM (22). Sidonie, Bočky (23). Suchov, Šumárníky (25). Bystřice pod Lopeníkem, quarry (29). Březová, Jamy (32). Lopeník, Grůň NM (33). Lopeník, Lopenické sedlo (34). Žitková, Hutě NR (35). Žitková, Pod Žitkovským vrchem NR (36). Starý Hrozenkov, Skalka quarry (37). Výškovec, Ve Vlčí NR (40). Kněždub, Skleněný vrch (42). Kněždub, Čertoryje NNR (43). Radějov, Kútky NR (45). Velká nad Veličkou, Zahrady pod Hájem NNR

Grasshoppers, crickets (Orthoptera), earwigs (Dermaptera), cockroaches (Blattaria), mantises (Mantodea)

(46). Nová Lhota, Jazevčí NNR (47). Suchov, Podhradí (49). Javorník, Jazevčí NNR (53). Javorník, Megovka (54). Nová Lhota, Přední louky (55). Slavkov, Dolnoněmčanské louky NR (56). Nová Lhota, Končiny (57). Javorník, Machová NR (59, 60, 61). Strání, Mechnáčky NM (62). Strání, Záhumenice NM (63). Strání, Nová hora NR (64). Strání, Javorina NNR (65).

Distribution and frequency in the Bílé Karpaty PLA: A common species. **General distribution:** Euro-Siberian. **Ecological requirements:** M, u.–m., pr. **Red List status:** –.

Tettigonia caudata (Charpentier, 1854)

Recent material examined. Javorník, Dlouhé (58).

Distribution and frequency in the Bílé Karpaty PLA: A local, very rare species. **General distribution:** Euro-Siberian. **Ecological requirements:** M–X, l.–u., pr.–des. **Red List status:** –.

Comments. In the Czech Republic, *T. caudata* is a rare xero- and thermophilous species; the imagines live on tall herbs (KOČÁREK *et al.* 2005). It has not been recorded in the Czech Republic for more than a decade; last records are dated back to the 1980's (ČEJCHAN 1980, 1985). The above-cited finding from 2007 in the White Carpathians is the only exception. However, it is possible that the species occurs also in other areas of the Czech Republic, as it has been found e.g. in Austria close to the southeastern Czech borders (ZUNA-KRATKY *et al.* 2009; P. Marhoul, pers. comm.).

Tettigonia viridissima Linnaeus, 1758

Published records. ČEJCHAN (1983): Lopeník (7072); Radějov, Lučina (7170). ČEJCHAN (1986): Velká nad Veličkou, Zahrady pod Hájem (7171); Javorník, Jazevčí (7171). CHLÁDEK (2002): Kněždub, Čertoryje (7170). CHLÁDEK (2003): Suchov, Búrová (7071); Velká nad Veličkou, Zahrady pod Hájem (7171).

Recent material examined. Valašské Klobouky, Bílé potoky NR (4). Hostětín, Žleb NM (13). Štítná nad Vláří (14). Bylnice, Na Stráži (17). Suchov, Šumárníky (25). Horní Němčí, Drahy NR (26). Komňa, Lom Rasová NM (28). Březová, Cestiska NM (30). Lopeník, Grůň NM (33). Žitková, Hutě NR (35). Žitková, Pod Žitkovským vrchem NR (36). Starý Hrozenkov, Skalka quarry (37). Starý Hrozenkov, Rolencovo (38). Vyškovec, Ve Vlči NR (40). Kněždub, Skleněný vrch (42). Kněždub, Čertoryje NNR (43). Malá Vrbka, Podlučí (44). Radějov, Kútky NR (45). Velká nad Veličkou, Zahrady pod Hájem NNR (46). Suchov, Podhradí (49). Javorník, Pahrby (50). Velká nad Veličkou, loampit (51). Javorník, Pod Záповědí (52). Nová Lhota, Přední louky (55). Nová Lhota, Končiny (57). Javorník, Machová NR (59, 60, 61). Strání, Mechnáčky NM (62). Strání, Javorina NNR (65).

Distribution and frequency in the Bílé Karpaty PLA: A common species. **General distribution:** Palaearctic. **Ecological requirements:** M, l.–u., arbs.–arb. **Red List status:** –.

Order ORTHOPTERA: CAELIFERA

Family ACRIDIDAE

Arcyptera fusca (Pallas, 1773)

(EX)

Published record. GÖRTLER (1944): Javorník (7171).

Unpublished historical record. Strání, Javorina NNR (7172), 970 m a.s.l., 27.viii.1948, 1 ♂, O. Ginter leg., J. Holuša det., coll. Museum of South-eastern Moravia, Zlín.

Distribution and frequency in the Bílé Karpaty PLA: Extinct. **General distribution:** Euro-Siberian. **Ecological requirements:** M–X, u.–m., pr. **Red List status:** EX (extinct species in the Czech Republic).

Comments. A record of *A. fusca* was published by GÖRTLER (1944) from the Velký Javorník Mt. However, it presumably refers to the village of Javorník (HOLUŠA 1997) or Mt. Velká Javořina, both in the White Carpathians. In the environs of the village of Javorník, other species reported by GÖRTLER (1944) were later found, i.e. *Pseudopodisma nagyí* (ČEJCHAN 1985) and *Polysarcus denticauda* (ŠULOVÁ 1958). In Ondřej Ginter collection deposited in the Museum of South-eastern Moravia, Zlín, there is one male from “Stráně – Javorina NNR”, i.e. the top of the Velká Javořina Mt., which lies ca. 10 km from the village of Javorník. The present occurrence of *A. fusca* in Javorník and the Velká Javořina Mt. environs is improbable due to the absence of suitable habitats. It lives on sunny hillsides, in semiarid to arid grasslands, and pastures in the montane and subalpine zones (NADIG 1986). Its ecological requirements are difficult to define. From the macroclimatic and mesoclimatic views, *A. fusca* tolerates a wide range of temperatures and precipitations. Its occurrence is probably limited not only by summer temperatures but also the duration of sunlight (NADIG 1991).

***Calliptamus italicus* (Linnaeus, 1758)**

(NT)

Recent material examined. Březová, Cestiska NM (30).

Distribution and frequency in the Bílé Karpaty PLA: A very rare species, probably occurring in the area only accidentally. **General distribution:** Euro-Siberian. **Ecological requirements:** X, l., des.-ter. **Red List status:** NT.

Comments. *Calliptamus italicus* is distributed throughout southern and central Europe, reaching Germany and Poland in the north, as well as in Central Asia, Iran, Afghanistan, and Mongolia. In the Czech Republic and Slovakia, it is locally abundant in steppes, dry meadows and fallows (KOČÁREK *et al.* 2005). In the Czech Republic, *C. italicus* was still very abundant in south-eastern parts of the country at the turn of the millennium (VLK *et al.* 2002, HOLUŠA 2003). In recent years, it has been rapidly spreading northwards to new suitable localities (KOČÁREK & HOLUŠA, personal observation). At the locality of Březová – Cestiska in the White Carpathians, only a single female was found (in the lower, rocky part of the reserve). This female specimen probably represented a migrating individual.

***Chorthippus albomarginatus* (De Geer, 1773)**

Published record. CHLÁDEK (2002): Kněždub, Čertoryje (7170).

Recent material examined. Petrůvka, U Petrůvky NM (1). Komňa, Lom Rasová NM (28). Radějov, Kútky NR (45). Velká nad Veličkou, Zahrady pod Hájem NNR (46). Nová Lhota, Jazevčí NNR (47). Suchov, Podhradí (49). Javorník, Jazevčí NNR (53). Nová Lhota, Končiny (57). Javorník, Dlouhé (58). Strání, Mechnáčky NM (62).

Grasshoppers, crickets (Orthoptera), earwigs (Dermaptera), cockroaches (Blattaria), mantises (Mantodea)

Distribution and frequency in the Bílé Karpaty PLA: A locally abundant species. **General distribution:** Euro-Siberian. **Ecological requirements:** H–M, l.–u., pr. **Red List status:** –.

Chorthippus apricarius (Linnaeus, 1758)

Published records. ČEJCHAN (1983): Jestřabí (6973); Horní Němčí (7071); Starý Hrozenkov (7073); Žitková (7073); Strání (7172). ČEJCHAN (1986): Velká nad Veličkou, Zahrady pod Hájem (7171); Javorník, Jazevčí (7171). CHLÁDEK (2002): Kněždub, Čertoryje (7170). CHLÁDEK (2003): Velká nad Veličkou, Zahrady pod Hájem (7171).

Unpublished historical records. Luhačovice (6872/6972); Radějov (7170); Javorník (7171) (GINTER in litt.). **Recent material examined.** Petrůvka, U Petrůvky NM (1). Poteč, Ploštiny NR (3). Valašské Klobouky, Bílé potoky NR (4). Nedašova Lhota, Paseky (7). Nedašov, Jalovcová stráž NR (9). Nedašov, Kaňoury NM (10). Kladná-Žilín (11). Hostětín, Žleb NM (13). Štítná nad Vláří (14). Bylnice, Na Stráži (17). Suchov, Šumárníky (25). Horní Němčí, Drahy NR (26). Komňa, Lom Rasová NM (28). Lopeník, Lopenické sedlo (34). Žitková, Hutě NR (35). Starý Hrozenkov, Skalka quarry (37). Starý Hrozenkov, Rolencovo (38). Vyškovec, Ve Vlčí NR (40). Velká nad Veličkou, Zahrady pod Hájem NNR (46). Suchov, Podhradí (49). Javorník, Machová NR (59, 61). Strání, Mechnáčky NM (62). Strání, Nová hora NR (64).

Distribution and frequency in the Bílé Karpaty PLA: A common species. **General distribution:** Euro-Siberian. **Ecological requirements:** M–X, l.–h., pr. **Red List status:** –.

Chorthippus biguttulus (Linnaeus, 1758)

Published records. ČEJCHAN (1983): Jestřabí (6973); Štěpán (6974); Lopeník (7072); Starý Hrozenkov (7073); Radějov, Veselka (7170); Radějov, Lučina (7170); Strání (7172). ČEJCHAN (1986): Velká nad Veličkou, Zahrady pod Hájem (7171); Javorník, Jazevčí (7171). CHLÁDEK (2002): Kněždub, Čertoryje (7170). CHLÁDEK (2003): Velká nad Veličkou, Zahrady pod Hájem (7171).

Unpublished historical records. Luhačovice (6872/6972); Lopeník, Velký Lopeník Mt. (7072); Strání – Javorina NNR (7172) (GINTER in litt.).

Recent material examined. Petrůvka, U Petrůvky NM (1). Poteč, Ploštiny NR (3). Valašské Klobouky, Bílé potoky NR (4). Nedašova Lhota, Paseky (7). Nedašov, Jalovcová stráž NR (9). Nedašov, Kaňoury NM (10). Kladná-Žilín (11). Hostětín, Žleb NM (13). Štítná nad Vláří (14). Bylnice, Na Stráži (17). Nedašov, Šumlatová NM (19). Brumov, Holý vrch (20). Nedašov, Pod Cigánem NM (22). Sidonie, Bočky (23). Suchov, Šumárníky (25). Horní Němčí, Drahy NR (26). Komňa, Lom Rasová NM (28). Březová, Cestiska NM (30). Březová, Jamy (32). Lopeník, Grůň NM (33). Lopeník, Lopenické sedlo (34). Žitková, Hutě NR (35). Starý Hrozenkov, Skalka quarry (37). Starý Hrozenkov, Rolencovo (38). Vyškovec, Ve Vlčí NR (40). Kněždub, Skleněný vrch (42). Kněždub, Čertoryje NNR (43). Malá Vrbka, Podlučí (44). Radějov, Kútky NR (45). Velká nad Veličkou, Zahrady pod Hájem NNR (46). Nová Lhota, Jazevčí NNR (47). Suchov, Podhradí (49). Javorník, Pahrby (50). Velká nad Veličkou, loampit (51). Javorník, Pod Zápovědí (52). Javorník, Jazevčí NNR (53). Nová Lhota, Přední louky (55). Slavkov, Dolnoněmčanské louky NR (56). Nová Lhota, Končiny (57). Javorník, Dlouhé (58). Javorník, Machová NR (59, 60, 61). Strání, Mechnáčky NM (62). Strání, Záhumenice NM (63). Strání, Nová hora NR (64). Strání, Javorina NNR (65).

Distribution and frequency in the Bílé Karpaty PLA: A very common species. **General distribution:** Palaearctic. **Ecological requirements:** M–X, l.–m., pr. **Red List status:** –.

Chorthippus brunneus (Thunberg, 1815)

Published records. ČEJCHAN (1983): Radějov, Veselka (7170); Radějov, Lučina (7170). CHLÁDEK (2002): Kněždub, Čertoryje (7170).

Unpublished historical records. Radějov (7170); Strání, Javorina NNR (7172) (GINTER in litt.).

Recent material examined. Bylnice, Na Stráži (17). Sidonie, Bočky (23). Komňa, Lom Rasová NM (28). Březová, Cestiska NM (30). Lopeník, Grůň NM (33). Starý Hrozenkov, Skalka quarry (37). Kněždub, Čertoryje NNR (43). Radějov, Kútky NR (45).

Distribution and frequency in the Bílé Karpaty PLA: A locally abundant species.

General distribution: Palearctic. **Ecological requirements:** X, l.–m., ter.–des. **Red List status:** –.

Chorthippus dorsatus (Zetterstedt, 1821)

Published records. ČEJCHAN (1983): Jestřabí (6973); Štěpán (6974); Radějov, Lučina (7170); Horní Němčí (7071); Strání (7172). ČEJCHAN (1986): Javorník, Jazevčí (7171). CHLÁDEK (2002, 2003): Kněždub, Čertoryje (7170).

Unpublished historical records. Luhačovice (6872/6972); Radějov (7170); Javorník (7171) (GINTER in litt.).

Recent material examined. Poteč, Ploščiny NR (3). Nedašova Lhota, Paseky (7). Nedašov, Jalovcová stráž NR (9). Nedašov, Kaňoury NM (10). Kladná-Žilín (11). Hostětín, Žleb NM (13). Štítná nad Vláří (14). Bylnice, Na Stráži (17). Nedašov, Šumlatová NM (19). Brumov, Holý vrch (20). Nedašov, Pod Cigánem NM (22). Suchov, Šumárníky (25). Horní Němčí, Drahy NR (26). Komňa, Lom Rasová NM (28). Březová, Cestiska NM (30). Březová, Jamy (32). Lopeník, Grůň NM (33). Lopeník, Lopenické sedlo (34). Žitková, Hutě NR (35). Starý Hrozenkov, Skalka quarry (37). Vyškovec, Ve Vlčí NR (40). Kněždub, Skleněný vrch (42). Kněždub, Čertoryje NNR (43). Malá Vrbka, Podlučí (44). Radějov, Kútky NR (45). Velká nad Veličkou, Zahrady pod Hájem NNR (46). Nová Lhota, Jazevčí NNR (47). Suchov, Podhradí (49). Javorník, Pahrby (50). Velká nad Veličkou, loampit (51). Javorník, Pod Záповědí (52). Javorník, Jazevčí NNR (53). Javorník, Megovka (54). Nová Lhota, Přední louky (55). Slavkov, Dolnoněmčanské louky NR (56). Nová Lhota, Končiny (57). Javorník, Machová NR (59, 60, 61). Strání, Mechnáčky NM (62). Strání, Záhumenice NM (63). Strání, Nová hora NR (64).

Distribution and frequency in the Bílé Karpaty PLA: A very common species.

General distribution: Euro-Siberian. **Ecological requirements:** M–X, l.–m., pr.–des. **Red List status:** –.

Chorthippus mollis (Charpentier, 1825)

Published records. ČEJCHAN (1986): Velká nad Veličkou, Zahrady pod Hájem (7171). CHLÁDEK (2002): Kněždub, Čertoryje (7170). HOLUŠA (2003): Luhačovice (6872/6972); Hluk, Kobylí hlava (7071); Lopeník (7072); Kněždub, Čertoryje (7170); Radějov (7170); Javorník (7171); Velká nad Veličkou, Zahrady pod Hájem (7171); Strání, Javorina NNR (7172).

Unpublished historical records. Luhačovice (6872/6972); Lopeník, Velký Lopeník Mt. (7072); Radějov (7170); Javorník (7171); Strání, Javorina NNR (7172) (GINTER in litt.).

Recent material examined. Kněždub, Skleněný vrch (42). Velká nad Veličkou, Zahrady pod Hájem NNR (46). Javorník, Jazevčí (53).

Distribution and frequency in the Bílé Karpaty PLA: A local, rare species. **General**

distribution: Euro-Siberian. **Ecological requirements:** M–X, l.–m., pr.–des. **Red List status:** –.

Grasshoppers, crickets (Orthoptera), earwigs (Dermaptera), cockroaches (Blattaria), mantises (Mantodea)

Comments. A moderately xerophilous species commonly occurring in lowlands of southern and central Moravia; it has spread recently also into the White Carpathians, hills in central Moravia and the Bohemian-Moravian Highlands (HOLUŠA 2003).

***Chorthippus montanus* (Charpentier, 1825)**

Published records. ČEJCHAN (1983): Jestřábí (6973). CHLÁDEK (2002): Kněždub, Čertoryje (7170).

Unpublished historical records. Luhačovice (6872/6972); Radějov (7170) (GINTER in litt.).

Recent material examined. Petrůvka, U Petrůvky NM (1). Nedašov, Jalovcová stráž NR (9). Hostětín, Žleb NM (13). Bylnice, Na Stráži (17). Nedašov, Pod Cigánem NM (22). Suchov, Šumárníky (25). Březová, Jamy (32). Lopeník, Grůň NM (33). Vyškovec, Ve Vlči NR (40). Kněždub, Čertoryje NNR (43). Radějov, Kútky NR (45). Nová Lhota, Jazevčí NNR (47). Suchov, Podhradí (49). Javorník, Pod Záповědí (52). Javorník, Jazevčí NNR (53). Nová Lhota, Končiny (57). Strání, Mechnáčky NM (62). Strání, Záhumenice NM (63). Strání, Nová hora NR (64).

Distribution and frequency in the Bílé Karpaty PLA: A locally common species.

General distribution: Euro-Siberian. **Ecological requirements:** H–M, l.–m., pr. **Red List status:** –.

***Chorthippus parallelus* (Zetterstedt, 1821)**

Published records. ČEJCHAN (1983): Lopeník (7072), Starý Hrozenkov (7073), Žitková (7073); Radějov, Veselka (7170); Radějov, Machnác hill (7170); Hrubá Vrbka, Vojšické louky (7170); Strání (7172). ČEJCHAN (1986): Javorník, Jazevčí (7171). CHLÁDEK (2002): Kněždub, Čertoryje (7170). CHLÁDEK (2003): Suchov, Búrová (7071); Velká nad Veličkou, Zahrady pod Hájem (7171).

Unpublished historical records. Radějov, Veselka (7170); Javorník (7171); Strání, Javorina NNR (7172) (GINTER in litt.).

Recent material examined. Petrůvka, U Petrůvky NM (1). Poteč, Ploštiny NR (3). Valašské Klobouky, Bílé potoky NR (4). Nedašova Lhota, Paseky (7). Nedašov, Jalovcová stráž NR (9). Nedašov, Kaňoury NM (10). Kladná-Žilín (11). Hostětín, Žleb NM (13). Štítná nad Vláří (14). Bylnice, Na Stráži (17). Nedašov, Šumlatová NM (19). Nedašov, Pod Cigánem NM (22). Sidonie, Bočky (23). Suchov, Šumárníky (25). Horní Němčí, Drahy NR (26). Komňa, Lom Rasová NM (28). Březová, Cestiska NM (30). Březová, Jamy (32). Lopeník, Grůň NM (33). Lopeník, Lopenické sedlo (34). Žitková, Hutě NR (35). Žitková, Pod Žitkovským vrchem NR (36). Starý Hrozenkov, Skalka quarry (37). Starý Hrozenkov, Rolencovo (38). Vyškovec, Ve Vlči NR (40). Kněždub, Skleněný vrch (42). Kněždub, Čertoryje NNR (43). Malá Vrbka, Podlučí (44). Radějov, Kútky NR (45). Velká nad Veličkou, Zahrady pod Hájem NNR (46). Nová Lhota, Jazevčí NNR (47). Suchov, Podhradí (49). Javorník, Pahrby (50). Velká nad Veličkou, loampit (51). Javorník, Pod Záповědí (52). Javorník, Jazevčí NNR (53). Javorník, Megovka (54). Nová Lhota, Přední louky (55). Slavkov, Dolnoněmčanské louky NR (56). Nová Lhota, Končiny (57). Javorník, Dlouhé (58). Javorník, Machová NR (59, 60, 61). Strání, Javorina NNR (65). Strání, Mechnáčky NM (62). Strání, Záhumenice NM (63). Strání, Nová hora NR (64).

Distribution and frequency in the Bílé Karpaty PLA: A very common species.

General distribution: Euro-Siberian. **Ecological requirements:** M, l.–m., pr. **Red List status:** –.

***Chrysochraon dispar* (Germar, 1834)**

Published records. ČEJCHAN (1983): Svatý Štěpán (6974); Horní Němčí (7071); Lopeník (7072); Starý Hrozenkov (7073); Žitková (7073); Hrubá Vrbka, Vojšické louky (7170); Radějov, Lučina (7170); Radějov,

Veselka (7170); Radějov, Machnáč hill (7170); Strání (7172); Strání, Javořina (7172). ČEJCHAN (1986): Velká nad Veličkou, Zahrady pod Hájem (7171); Javorník, Jazevčí (7171). CHLÁDEK (2002): Kněždub, Čertoryje (7170). CHLÁDEK (2003): Suchov, Búrová (7071); Velká nad Veličkou, Zahrady pod Hájem (7171).

Unpublished historical records. Lopeník, Velký Lopeník Mt. (7072); Radějov, Veselka (7170); Strání, Javorina NNR (7172) (GINTER in litt.).

Recent material examined. Petrůvka, U Petrůvky NM (1). Valašské Klobouky, Bílé potoky NR (4). Nedašova Lhota, Paseky (7). Nedašov, Jalovcová stráž NR (9). Nedašov, Kaňoury NM (10). Kladná-Žilín (11). Hostětín, Žleb NM (13). Štítná nad Vláří (14). Sidonie, Bočky (23). Suchov, Šumárníky (25). Horní Němčí, Drahy NR (26). Komňa, Lom Rasová NM (28). Březová, Cestiska NM (30). Lopeník, Lopenické sedlo (34). Žitková, Hutě NR (35). Starý Hrozenkov, Skalka quarry (37). Výškovec, Ve Vlčí NR (40). Kněždub, Skleněný vrch (42). Kněždub, Čertoryje NNR (43). Malá Vrbka, Podlučí (44). Radějov, Kútky NR (45). Velká nad Veličkou, Zahrady pod Hájem NNR (46). Nová Lhota, Jazevčí NNR (47). Suchov, Podhradí (49). Javorník, Pahrby (50). Velká nad Veličkou, loampit (51). Javorník, Pod Zápovědí (52). Javorník, Jazevčí NNR (53). Nová Lhota, Přední louky (55). Slavkov, Dolnoněmčanské louky NR (56). Nová Lhota, Končiny (57). Javorník, Machová NR (59, 60, 61). Strání, Mechnáčky NM (62). Strání, Záhumenice NM (63). Strání, Nová hora NR (64).

Distribution and frequency in the Bílé Karpaty PLA: A common species. **General distribution:** Euro-Siberian. **Ecological requirements:** mH, l.–m., pr. **Red List status:** –.

***Euchorthippus declivus* (Brisout-Barneville, 1848)**

Recent material examined. Malá Vrbka, Podlučí (44). Suchov, Podhradí (49).

Distribution and frequency in the Bílé Karpaty PLA: A very rare species. **General distribution:** European. **Ecological requirements:** X, l.–u., pr.–des. **Red List status:** –.

Comments. *Euchorthippus declivus* is a xerothermophilous, praticalous species distributed in western, southern and eastern Europe. The northern limit of its distribution range passes through Austria, Czech Republic, Slovakia, and western Ukraine (KOČÁREK *et al.* 2005). Recently, *E. declivus* has spread far to the north in the Czech Republic (HOLUŠA *et al.* 2007b).

***Euthystira brachyptera* (Ocskay, 1826)**

Published records. ČEJCHAN (1983): Jestřabí (6973); Svatý Štěpán (6974); Horní Němčí (7071); Lopeník (7072); Starý Hrozenkov (7073); Žitková (7073); Radějov, Veselka (7170); Radějov, Machnáč hill (7170); Hrubá Vrbka, Vojšické louky (7170); Strání (7172). ČEJCHAN (1986): Velká nad Veličkou, Zahrady pod Hájem (7171); Javorník, Jazevčí (7171). CHLÁDEK (2002): Kněždub, Čertoryje (7170). CHLÁDEK (2003): Suchov, Búrová (7071); Velká nad Veličkou, Zahrady pod Hájem (7171).

Unpublished historical records. Luhačovice (6872/6972); Lopeník, Velký Lopeník Mt. (7072); Radějov (7170); Radějov, Veselka (7170); Javorník (7171); Strání, Javorina NNR (7172) (GINTER in litt.).

Recent material examined. Petrůvka, U Petrůvky NM (1). Poteč, Ploščiny NR (3). Valašské Klobouky, Bílé potoky NR (4). Nedašova Lhota (5). Nedašova Lhota, Paseky (7). Nedašova Lhota, Zadky (8). Nedašov, Jalovcová stráž NR (9). Nedašov, Kaňoury NM (10). Kladná-Žilín (11). Hostětín, Žleb NM (13). Štítná nad Vláří (14). Bylnice, Na Stráži (17). Nedašov, Šumlatová NM (19). Nedašov, Pod Cigánem NM (22). Sidonie, Bočky (23). Suchov, Šumárníky (25). Horní Němčí, Drahy NR (26). Komňa, Lom Rasová NM (28). Březová, Cestiska NM (30). Březová, Jamy (32). Lopeník, Grůň NM (33). Lopeník, Lopenické sedlo (34). Žitková, Hutě NR (35). Žitková, Pod Žitkovským vrchem NR (36). Starý Hrozenkov, Skalka quarry (37). Starý Hrozenkov,

Grasshoppers, crickets (Orthoptera), earwigs (Dermaptera), cockroaches (Blattaria), mantises (Mantodea)

Rolencovo (38). Vyškovec, Ve Vlčí NR (40). Kněždub, Skleněný vrch (42). Kněždub, Čertoryje NNR (43). Malá Vrbka, Podlučí (44). Radějov, Kútky NR (45). Velká nad Veličkou, Zahrady pod Hájem NNR (46). Nová Lhota, Jazevčí NNR (47). Suchov, Podhradí (49). Velká nad Veličkou, loampit (51). Javorník, Pod Záповědí (52). Javorník, Jazevčí NNR (53). Javorník, Megovka (54). Nová Lhota, Přední louky (55). Slavkov, Dolnoněmčanské louky NR (56). Nová Lhota, Končiny (57). Javorník, Machová NR (59, 60, 61). Strání, Mechnáčky NM (62). Strání, Záhumenice NM (63). Strání, Nová hora NR (64). Strání, Javorina NNR (65).

Distribution and frequency in the Bílé Karpaty PLA: A common species. **General distribution:** Euro-Siberian. **Ecological requirements:** mH–X, l.–m., pr. **Red List status:** –.

Gomphocerippus rufus (Linnaeus, 1758)

Published records. ČEJCHAN (1983): Svatý Štěpán (6974); Radějov, Veselka (7170); Hrubá Vrbka, Vojšické louky (7170). ČEJCHAN (1986): Javorník, Jazevčí (7171). CHLÁDEK (2002): Kněždub, Čertoryje (7170). CHLÁDEK (2003): Velká nad Veličkou, Zahrady pod Hájem (7171).

Recent material examined. Poteč, Ploščiny NR (3). Valašské Klobouky, Bílé potoky NR (4). Nedašova Lhota, Paseky (7). Nedašov, Jalovcová stráž NR (9). Nedašov, Kaňoury NM (10). Sidonie, Bočky (23). Suchov, Šumárníky (25). Březová, Cestiska NM (30). Lopeník, Lopenické sedlo (34). Kněždub, Skleněný vrch (42). Kněždub, Čertoryje NNR (43). Malá Vrbka, Podlučí (44). Radějov, Kútky NR (45). Velká nad Veličkou, Zahrady pod Hájem NNR (46). Nová Lhota, Jazevčí NNR (47). Suchov, Podhradí (49). Javorník, Pod Záповědí (52). Javorník, Jazevčí NNR (53). Javorník, Megovka (54). Slavkov, Dolnoněmčanské louky NR (56). Nová Lhota, Končiny (57). Javorník, Machová NR (60). Strání, Mechnáčky NM (62). Strání, Nová hora NR (64).

Distribution and frequency in the Bílé Karpaty PLA: A common species. **General distribution:** Euro-Siberian. **Ecological requirements:** M, l.–m., pr.-sil. **Red List status:** –.

Oedipoda caerulea (Linnaeus, 1758)

Unpublished historical records Luhačovice (6872/6972); Strání, Javorina NNR (7172) (GINTER in litt.).

Recent material examined. Poteč, Ploščiny NR (3). Nedašov, Jalovcová stráž NR (9). Brumov, Březová (15). Komňa, Lom Rasová NM (28). Starý Hrozenkov, Skalka quarry (37). Radějov, Kútky NR (45).

Distribution and frequency in the Bílé Karpaty PLA: A local, rare species. **General distribution:** Palaearctic. **Ecological requirements:** X, l.–u., des., ter. **Red List status:** –.

Omocestus haemorrhoidalis (Charpentier, 1825)

Published record. CHLÁDEK (2002): Kněždub, Čertoryje (7170).

Unpublished historical record. Lopeník, Velký Lopeník Mt. (7072), 24.viii.1950, 2 ♂♂ 1 ♀, O. Ginter leg., J. Holuša det., coll. Museum of South-eastern Moravia, Zlín.

Distribution and frequency in the Bílé Karpaty PLA: A very rare species, recently known from a single locality. **General distribution:** Palaearctic. **Ecological requirements:** X, l.–u., des. **Red List status:** –.

Omocestus rufipes (Zetterstedt, 1821)

Published records. ČEJCHAN (1983): Radějov, Veselka (7170). CHLÁDEK (2002): Kněždub, Čertoryje (7170). HOLUŠA (2003): Luhačovice (6872/6972); Radějov (7170); Radějov, Veselka (7170); Strání, Javorina NNR (7172).

Recent material examined. Štítná nad Vláří (14).

Distribution and frequency in the Bílé Karpaty PLA: A very rare species. **General distribution:** Palaearctic. **Ecological requirements:** M, l.–u., pr. **Red List status:** –.

Comments. A mesotopic and thermophilous species (THORENS & NADIG 1997), rare and local in the Czech Republic. It seems that its occurrence in Moravia is concentrated on the boundaries of the Pannonian and Central European deciduous forest biogeographical provinces (HOLUŠA 2003). This conforms to its requirements, as it lives in warm localities on grassy glades among broad-leaved trees (sometimes among conifers as well). Its populations sometimes grow rapidly after clearing the tree layer and decrease after the clearings become overgrown. It is sometimes also found in lowland grasslands or heaths but usually only in the neighbourhood of beech or other forests, or gorse and birch thickets (MARSHALL & HAES 1990). Due to these specific requirements, any occurrence is limited, patchy and, in the Czech Republic, largely in contact with open thermophilous oak forests in the hills of southern Moravia. *Omocestus rufipes* is quite infrequent in the Czech Republic (HOLUŠA 2003) even if it may be under-recorded (forests are generally not attractive collecting sites for most orthopterologists).

Omocestus viridulus (Linnaeus, 1758)

Published records. ČEJCHAN (1983): Jestřábí (6973); Lopeník (7072); Starý Hrozenkov (7073); Žitková (7073); Kněždub, Čertoryje (7170); Hrubá Vrbka, Vojšické louky (7170); Strání, Javořina (7172). ČEJCHAN (1986): Javorník, Jazevčí (7171). CHLÁDEK (2002): Kněždub, Čertoryje (7170). CHLÁDEK (2003): Velká nad Veličkou, Zahrady pod Hájem (7171).

Unpublished historical records. Luhačovice (6872/6972), 10.vii.1933, 2 ♂♂ 5 ♀♀. Lopeník, Velký Lopeník Mt. (7072), 24.viii.1950, 1 ♂ 1 ♀. Radějov, Veselka (7170), 2.viii.1973, 1 ♂ 3 ♀♀. Strání, Javorina NNR (7172), 28.viii.1959, 2 ♀♀. All O. Ginter leg., J. Holuša det., coll. Museum of South-eastern Moravia, Zlín.

Recent material examined. Petrůvka, U Petrůvky NM (1). Poteč, Ploščiny NR (3). Valašské Kloubouky, Bílé potoky NR (4). Nedašov, Jalovcová stráž NR (9). Hostětín, Žleb NM (13). Nedašov, Šumlatová NM (19). Nedašov, Pod Cigánem NM (22). Sidonie, Bočky (23). Suchov, Šumárníky (25). Lopeník, Grůň NM (33). Lopeník, Lopenické sedlo (34). Žitková, Hutě NR (35). Žitková, Pod Žitkovským vrchem NR (36). Starý Hrozenkov, Rolencovo (38). Vyškovec, Ve Vlči NR (40). Nová Lhota, Jazevčí NNR (47). Suchov, Podhradí (49). Javorník, Jazevčí NNR (53). Javorník, Megovka (54). Nová Lhota, Přední louky (55). Slavkov, Dolnoněmčanské louky NR (56). Strání, Mechnáčky NM (62). Strání, Záhumenice NM (63). Strání, Nová hora NR (64). Strání, Javorina NNR (65).

Distribution and frequency in the Bílé Karpaty PLA: A common species. **General distribution:** Euro-Siberian. **Ecological requirements:** mH, l.–m., pr. **Red List status:** –.

Pseudopodisma nagyí Galvagni et Fontana, 1996

Published records. GÖRTLER (1944) [as *Pseudopodisma fieberi* (Scudder, 1897)]: Javorník (7171). CHLÁDEK (2002): Kněždub, Čertoryje (7170) [as *Pseudopodisma transylvanica* Galvagni et Fontana, 1993].

Grasshoppers, crickets (Orthoptera), earwigs (Dermaptera), cockroaches (Blattaria), mantises (Mantodea)

Unpublished historical records. Javorník (7171), 4.ix.1965, 7 ♂♂ 6 ♀♀; 17.viii.1967, 3 ♂♂ 2 ♀♀; 29.vii.1969, 2 ♂♂ 5 ♀♀; all O. Ginter leg., J. Holuša & A. Galvagni det., coll. Museum of South-eastern Moravia, Zlín.

Recent material examined. Javorník, Machová NR (59, 60, 61).

Distribution and frequency in the Bílé Karpaty PLA: A very rare, local species. **General distribution:** Carpathian. **Ecological requirements:** M, u.–m., pr. **Red List status:** –.

Comments. *Pseudopodisma nagy* is a recently described species (GALVAGNI & FONTANA 1996) but its status may be problematic (NAGY *et al.* 2010). It was sometimes referred as *Pseudopodisma fieberi* (Scudder, 1897) (ČEJCHAN 1986, GÖRTLER 1944). So far it is known only from northern Hungary (NAGY *et al.* 2010), Slovakia (GALVAGNI & FONTANA 1996), and the Czech Republic (GÖRTLER 1944, see HOLUŠA 1997). In the Czech Republic, it occurs only in the White Carpathians (ČEJCHAN 1986).

Psophus stridulus (Linnaeus, 1758)

(NT)

Published records. HOLUŠA (2000), CHLÁDEK (2002), KONVIČKA (2011): Kněždub, Čertoryje (7170).

Unpublished historical records. Lopeník, Velký Lopeník Mt. (7072), 24.viii.1950, 2 ♂♂. Radějov (7170), 26.viii.1963, 1 ♂. Javorník (7171), 4.ix.1965, 1 ♂. All O. Ginter leg., J. Holuša det., coll. Museum of South-eastern Moravia, Zlín. Radějov, Veselka (7170) (GINTER in litt.).

Recent material examined. Nedašova Lhota (5). Nedašova Lhota (6). Nedašova Lhota, Paseky (7). Nedašov, Kaňoury NM (10). Kněždub, Čertoryje NNR (43). Suchov, Podhradí (49).

Distribution and frequency in the Bílé Karpaty PLA: A rare species, recently known from four localities. **General distribution:** Palearctic. **Ecological requirements:** M, u.–m., pr. **Red List status:** NT.

Comments. DOBŠÍK (1959) judged *P. stridulus* to be an abundant species in the former Czechoslovakia. PECINA (1982) pointed out that it has recently vanished from sites where it had occurred in large populations in the past. He postulated that the termination of sheep herding and subsequent transformation of pastures to meadows are possible causes for the decline of populations in the Krkonoše Mts. *Psophus stridulus* has disappeared from other places in Europe as well. In the Moravskoslezské Beskydy Mts. [Moravian-Silesian Beskids], a rapid decline occurred in the 1980's (HOLUŠA 2000). More recent findings have been reported from the Vsetín region, but *P. stridulus* is endangered by the cessation of grazing even there (HOLUŠA 2000, SPITZER 2007). In the Bílé Karpaty PLA, the Kaňoury site near Nedašov is particularly important as the local population of *P. stridulus* comprised several hundreds of individuals (KONVIČKA & SPITZER 2008).

Stenobothrus crassipes (Charpentier, 1825)

Published records. CHLÁDEK (1982): Blatnička (7071). ČEJCHAN (1983), CHLÁDEK (2002), HOLUŠA (2003): Hluk, Kobylí hlava (7071); Kněždub, Čertoryje (7170); Radějov (7170).

Recent material examined. Kněždub, Skleněný vrch (42). Kněždub, Čertoryje NNR (43). Velká nad Veličkou, Zahrady pod Hájem NNR (46). Strání, Mechnáčky NM (62).

Distribution and frequency in the Bílé Karpaty PLA: A local, rare species. **General distribution:** European. **Ecological requirements:** X, l.–u., pr.–des. **Red List status:** –.

Comments. *Stenobothrus crassipes* is known from Austria, Hungary, Ukraine, Romania, Bulgaria, and the former Yugoslavia. In the Czech Republic and Slovakia it occurs rarely in dry meadows, steppes etc. in lowlands. Although it is present in Bohemia as well (KOČÁREK *et al.* 2005), in Moravia, it is restricted to southern part: the Pannonian biogeographical province. As it prefers tall grass stands at dry sites, it finds suitable habitats also in the White Carpathians (HOLUŠA 2003).

Stenobothrus lineatus (Panzer, 1796)

Published records. ČEJCHAN (1983): Svatý Štěpán (6974); Horní Němčí (7071); Kněždub, Čertoryje (7170); Radějov, Veselka (7170); Hrubá Vrbka, Vojšické louky (7170); Strání (7172). ČEJCHAN (1986): Velká nad Veličkou, Zahrady pod Hájem (7171); Javorník, Jazevčí (7171). CHLÁDEK (2002): Kněždub, Čertoryje (7170). CHLÁDEK (2003): Velká nad Veličkou, Zahrady pod Hájem (7171).

Unpublished historical records. Luhačovice (6872/6972), 20.viii.1935, 5 ♂♂ 5 ♀♀. Lopeník, Velký Lopeník Mt. (7072), 24.viii.1950, 5 ♂♂ 5 ♀♀. Radějov (7170), 26.viii.1963, 1 ♂ 1 ♀. Radějov, Veselka (7170), 27.vii.1971, 1 ♂ 4 ♀♀. Javorník (7171), 29.vii.1969, 2 ♂♂ 2 ♀♀. Strání, Javorina NNR (7172), 28.viii.1959, 1 ♂ 1 ♀. All O. Ginter leg., J. Holuša det., coll. Museum of South-eastern Moravia, Zlín.

Recent material examined. Poteč, Ploščiny NR (3). Valašské Klobouky, Bílé potoky NR (4). Nedašova Lhota, Paseky (7). Nedašov, Kaňoury NM (10). Kladná-Žilín (11). Štítná nad Vláří (14). Bylnice, Na Stráži (17). Sidonie, Bočky (23). Suchov, Šumárníky (25). Horní Němčí, Drahy NR (26). Březová, Cestiska NM (30). Vyškovec, Ve Vlčí NR (40). Kněždub, Skleněný vrch (42). Kněždub, Čertoryje NNR (43). Malá Vrbka, Podlučí (44). Radějov, Kútky NR (45). Velká nad Veličkou, Zahrady pod Hájem NNR (46). Nová Lhota, Jazevčí NNR (47). Suchov, Podhradí (49). Velká nad Veličkou, loampit (51). Javorník, Jazevčí NNR (53). Javorník, Megovka (54). Slavkov, Dolnoněmčanské louky NR (56). Javorník, Machová NR (60). Strání, Mechnáčky NM (62). Strání, Nová hora NR (64).

Distribution and frequency in the Bílé Karpaty PLA: A common species. **General distribution:** Euro-Siberian. **Ecological requirements:** M–X, l.–u., pr.–des. **Red List status:** –.

Family TETRIGIDAE

Tetrix bipunctata (Linnaeus, 1758)

Published records. ČEJCHAN (1983): Horní Němčí (7071). CHLÁDEK (2002): Kněždub, Čertoryje (7170).

Unpublished historical records. Luhačovice (6872/6972); Strání, Javorina NNR (7172) (GINTER in litt.).

Recent material examined. Poteč, Ploščiny NR (3). Valašské Klobouky, Bílé potoky NR (4). Nedašov, Kaňoury NM (10). Horní Němčí, Drahy NR (26). Vyškovec, Ve Vlčí NR (40).

Distribution and frequency in the Bílé Karpaty PLA: A rare and local species. **General distribution:** Palearctic. **Ecological requirements:** X, l.–m., pr.–des. **Red List status:** –.

Tetrix subulata (Linnaeus, 1758)

Published records. CHLÁDEK (2002): Kněždub, Čertoryje (7170).

Grasshoppers, crickets (Orthoptera), earwigs (Dermaptera), cockroaches (Blattaria), mantises (Mantodea)

Recent material examined. Lopeník, Lopenické sedlo (34). Žitková, Hutě NR (35). Velká nad Veličkou, loampit (51).

Distribution and frequency in the Bílé Karpaty PLA: A rare species. **General distribution:** Holarctic. **Ecological requirements:** H–mH, l.–m., pr., rip. **Red List status:** –.

Tetrix tenuicornis Sahlberg, 1893

Published records. ČEJCHAN (1983): Hrubá Vrbka, Vojšické louky (7170); Strání (7172). ČEJCHAN (1986): Velká nad Veličkou, Zahrady pod Hájem (7171); Javorník, Jazevčí (7171). CHLÁDEK (2002): Kněždub, Čertoryje (7170).

Unpublished historical record. Luhačovice (6872/6972) (GINTER in litt.).

Recent material examined. Petrůvka, U Petrůvky NM (1). Poteč, Ploščiny NR (3). Valašské Klobouky, Bílé potoky NR (4). Nedašov, Kaňoury NM (10). Kladná-Žilín (11). Hostětín, Žleb NM (13). Štítná nad Vláří (14). Bylnice, Na Stráži (17). Komňa, Lom Rasová NM (28). Březová, Cestiska NM (30). Lopeník, Lopenické sedlo (34). Starý Hrozenkov, Skalka quarry (37). Kněždub, Skleněný vrch (42). Kněždub, Čertoryje NNR (43). Malá Vrbka, Podlučí (44). Radějov, Kútky NR (45). Velká nad Veličkou, Zahrady pod Hájem NNR (46). Nová Lhota, Jazevčí NNR (47). Velká nad Veličkou, loampit (51). Javorník, Pod Zápovědí (52). Javorník, Jazevčí NNR (53). Javorník, Megovka (54). Nová Lhota, Přední louky (55). Slavkov, Dolnoněmčanské louky NR (56). Nová Lhota, Končiny (57). Javorník, Machová NR (59, 60, 61). Strání, Záhumenice NM (63).

Distribution and frequency in the Bílé Karpaty PLA: A common species. **General distribution:** Palaearctic. **Ecological requirements:** M, l.–m., pr. **Red List status:** –.

Tetrix undulata (Sowerby, 1806)

Published records. ČEJCHAN (1983): Hrubá Vrbka, Vojšické louky (7170). CHLÁDEK (2002): Kněždub, Čertoryje (7170). CHLÁDEK (2003): Velká nad Veličkou, Zahrady pod Hájem (7171).

Unpublished historical record. Luhačovice (6872/6972) (GINTER in litt.).

Recent material examined. Sidonie, Bočky (23). Komňa, Lom Rasová NM (28). Starý Hrozenkov, Skalka quarry (37). Velká nad Veličkou, loampit (51). Strání, Mechnáčky NM (62). Strání, Nová hora NR (64).

Distribution and frequency in the Bílé Karpaty PLA: A common species. **General distribution:** Euro-Siberian. **Ecological requirements:** H–M, l.–m., pr., rip. **Red List status:** –.

Order DERMAPTERA

Family FORFICULIDAE

Apterygida media (Hagenbach, 1822)

Published record. CHLÁDEK (2009): Kněždub, Čertoryje (7170).

Recent material examined. Petrůvka, U Petrůvky NM (1). Kněždub, Skleněný vrch (42).

Distribution and frequency in the Bílé Karpaty PLA: A rare species. **General distribution:** European. **Ecological requirements:** H–M, l.–u., rip., arbs. **Red List status:** –.

Chelidurella acanthopygia (Gené, 1832)

Published record. CHLÁDEK (2009): Kněždub, Čertoryje (7170).

Recent material examined. Žitková, Hutě NR (35). Suchov, Podhradí (49). Javorník, Megovka (54).

Distribution and frequency in the Bílé Karpaty PLA: Probably common in forests but only a few records were available. **General distribution:** European. **Ecological requirements:** mH, l.–m., sil. **Red List status:** –.

Forficula auricularia Linnaeus, 1758

Published records. ČEJCHAN (1983): Lopeník (7072); Starý Hrozenkov (7073); Radějov, Veselka (7170); Hrubá Vrbka, Vojšické louky (7170). CHLÁDEK (2009): Kněždub, Čertoryje (7170).

Recent material examined. Petrůvka, U Petrůvky NM (1). Poteč, Ploščiny NR (3). Valašské Klobouky, Bílé potoky NR (4). Nedašova Lhota, Paseky (7). Nedašov, Jalovcová stráň NR (9). Nedašov, Kaňoury NM (10). Kladná-Žilín (11). Hostětín, Žleb NM (13). Štítná nad Vláří (14). Bylnice, Na Stráži (17). Nedašov, Šumlatová NM (19). Nedašov, Pod Cigánem NM (22). Sidonie, Bočky (23). Suchov, Šumárníky (25). Horní Němčí, Drahy NR (26). Komňa, Lom Rasová NM (28). Březová, Cestiska NM (30). Březová, Jamy (32). Lopeník, Lopenické sedlo (34). Žitková, Hutě NR (35). Žitková, Pod Žitkovským vrchem NR (36). Starý Hrozenkov, Skalka quarry (37). Starý Hrozenkov, Rolencovo (38). Vyškovec, Ve Vlčí NR (40). Kněždub, Skleněný vrch (42). Radějov, Kútky NR (45). Suchov, Podhradí (49). Velká nad Veličkou, loampit (51). Javorník, Pod Záповědí (52). Nová Lhota, Přední louky (55). Slavkov, Dolnoněmčanské louky NR (56). Nová Lhota, Končiny (57). Javorník, Machová NR (59, 60, 61). Strání, Mechnáčky NM (62). Strání, Záhumenice NM (63). Strání, Nová hora NR (64). Strání, Javorina NNR (65).

Distribution and frequency in the Bílé Karpaty PLA: A very common species. **General distribution:** Cosmopolitan. **Ecological requirements:** mH–M, l.–m., pr.–arbs.–arb. **Red List status:** –.

Family SPONGIPHORIDAE

Labia minor (Linnaeus, 1758)

Published record. CHLÁDEK (2009): Kněždub, Čertoryje (7170).

Distribution and frequency in the Bílé Karpaty PLA: A rare species, associated with pastures. **General distribution:** Cosmopolitan. **Ecological requirements:** mH, l.–u., pr. **Red List status:** –.

Discussion and conclusions

Based on previously published and newly recorded data, 49 species of Orthoptera, four species of Blattaria, one species of Mantodea and four species of Dermaptera have been found in the Bílé Karpaty PLA to date. Most of them have a wide ecological valence and can occur in various grassland habitats. In view of the geographical position of the White Carpathians, most species recorded are typical of the deciduous forest zone of the Euro-Siberian region while species of open dry grassland (steppes and forest steppes) occur less frequently. The most abundant species in the White Carpathians prefer tall grass stands or do not require any special vegetation height, or they live on shrubs, trees,

Grasshoppers, crickets (Orthoptera), earwigs (Dermaptera), cockroaches (Blattaria), mantises (Mantodea)

or in leaf litter. The geographical situation, the relatively warm and arid mesoclimatic characteristics, the presence of short-stemmed xerothermic grassland and sparsely vegetated areas in the Bílé Karpaty PLA are the conditions that allow the occurrence (sometimes even abundant) of several stenotopic or thermophilous species such as *Calliptamus italicus*, *Chorthippus mollis*, *Euchorthippus declivus*, *Metrioptera bicolor*, *Oedipoda caerulea*, *Omocestus rufipes*, *Platycleis albopunctata grisea*, *Poecilimon intermedius*, *Stenobothrus lineatus*, and *S. crassipes*. Rarer occurrence or absence of certain other species may arise out of local conditions. As the overall character of the area is relatively arid and the extent of wetlands negligible, many truly hygrophilous species are absent from the White Carpathians. Locally, only partially hygrophilous species occur (*Euthystira brachyptera*, *Chorthippus montanus*, *Chrysochraon dispar*, *Conocephalus fuscus*, and *Metrioptera brachyptera*).

One important member of the Orthoptera in the White Carpathians is *Polysarcus denticauda*, a European montane species widespread in the Pyrenees, Alps and Carpathians (KOČÁREK *et al.* 2005). In the Bílé Karpaty PLA, it occurs in relatively high abundances in overgrown mesic meadows. This occurrence is on the edge of its main Carpathian range. Within the rest of the Czech Republic, however, *P. denticauda* has a polydisjunctive distribution range, with the species also occurring at low densities in isolated populations in the environs of the towns of Janov (near Zlaté Hory in Jeseník district) and Jičín (HOLUŠA *et al.* 2007, KOČÁREK *et al.* 2009).

The bush-cricket *Poecilimon intermedius* is also interesting from the biogeographical and conservationist viewpoint; Moravia represents the westernmost limit of its large distribution range (KOČÁREK *et al.* 2005). It is wingless, and only parthenogenetic females are known from the Czech Republic (CHLÁDEK 1980). In the White Carpathians, *P. intermedius* has been discovered to date at only a single site in the Zahrady pod Hájem NNR (CHLÁDEK 2003, current study) where it is restricted to a meadow of only a few hectares. In the Czech Republic, it is otherwise known from only one another locality, Kamenný vrch Hill near Kurdějov in the environs of Hustopeče in southern Moravia (CHLÁDEK 1980).

The bush-cricket *Pseudopodisma nagyii* is also a very rare and biogeographically interesting species. It has a Carpathian distribution that reaches the westernmost limit in the White Carpathians (FONTANA & GALVAGNI 1995). To date, it has been found here only in the Machová NR near Javorník and the Čertoryje NNR near Kněždub. It occurs rarely on herbaceous vegetation at forest edges, but also in the middle of meadows, apparently without specific microhabitat preference.

The occurrence of the grasshopper *Psophus stridulus* is noteworthy, since it is a markedly receding species due to the decline of traditional forms of herding (HOLUŠA 2000, SPITZER 2007). Currently, the most numerous populations of this species in the Czech Republic occur in the Vsetín region and the White Carpathians (HOLUŠA 2000, SPITZER 2007, current study).

In order to preserve the grassland habitats in the Bílé Karpaty PLA, it is necessary to maintain the vegetation by cutting or grazing. For the Orthoptera in meadows, it is important that the sites are cut successively, mosaic-fashion at a number of different dates, if possible. If a meadow is cut all at once, the Orthoptera lose their cover and fall

easy prey to predators. Also, it is always preferable to use hand mowing (scything) or light mechanical cutting rather than cutting with tractor-towed gang-mowers. The latter approach involves high mortality of individual insects, killed directly by the mower or dying beneath the wheels of the tractor. Xerothermic and subxerothermic sites (including pastures) should be protected from overgrowth as a priority; they can be maintained by extensive grazing by sheep or mixed herds. In similar fashion to the preferable management regime for meadows, grazing should never take place over the entire area at once, but grazed and ungrazed parts should alternate in space and time.

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Souhrn

Rovnokřídlí (Orthoptera), škvoři (Dermaptera), švábi (Blattaria) a kudlanky (Mantodea) Chráněné krajinné oblasti a biosférické rezervace Bílé Karpaty.

Na základě dřívě publikovaných údajů a terénních sběrů z posledních let (1998–2010) je z území Chráněné krajinné oblasti a Biosférické rezervace Bílé Karpaty známo celkem 49 druhů rovnokřídlého hmyzu (kobyly a sarančí), čtyři druhy švábů, jeden druh kudlanky a čtyři druhy škvorů. Většina z těchto druhů má široké ekologické valence. S ohledem na zeměpisnou polohu Bílých Karpat ve fauně tohoto regionu převažují druhy zóny opadavých lesů eurosibiřské zoogeografické podoblasti zatímco druhy stepní a lesostepní se vyskytují relativně méně často. Mezi nejvýznamnější druhy Bílých Karpat patří celostátně vzácné a ohrožené kobyly *Polysarcus denticauda* a *Poecilimon intermedius* a saranče *Pseudopodisma nagyí* a *Psophus stridulus*. Rozšíření a ekologické nároky těchto druhů jsou v článku podrobněji komentovány. V zájmu zachování diverzity společenstev rovnokřídlého hmyzu a příbuzných skupin v lučních a pastevních biotopech Bílých Karpat je nutno pokračovat v jejich náležitě údržbě – kosení a pastvě. Pro luční druhy je důležité, aby louky byly koseny postupně jako mozaika plošek obhospodařovaných v různých termínech. U pastvin, které jsou důležité především pro ochranu xerothermních a subxerothermních druhů, je nutno zabránit zarůstání a zachovat extenzivní pastvu ovcí nebo smíšených stád.

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Jumping plant-lice (Hemiptera: Psylloidea) of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic)

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MALENOVSKÝ I. & LAUTERER P. 2012: Jumping plant-lice (Hemiptera: Psylloidea) of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic). In: MALENOVSKÝ I., KMENT P. & KONVIČKA O. (eds.): Species inventories of selected insect groups in the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic). *Acta Musei Moraviae, Scientiae biologicae* (Brno) 96(2) (2011): 105–154. – A total of 85 species of jumping plant-lice (Hemiptera: Sternorrhyncha: Psylloidea) were recorded in the Bílé Karpaty Protected Landscape Area and Biosphere Reserve and a few closely adjacent localities (south-eastern Moravia, Czech Republic). Most of the records come from field surveys carried out in 1998–2011, with some additional data based on literature and collection specimens. A complete list of all records from the area is supplemented by brief notes on the distribution, host plants and conservation status of each species. *Bactericera lyrata* Seljak, Malenovský & Lauterer, 2008, *Bactericera substriola* Ossiannilsson, 1992, and *Cacopsylla albipes* (Flor, 1861) are recorded here for the Czech Republic for the first time. The jumping plant-lice fauna of the Bílé Karpaty may be characterised as species-rich, comprising 65% of the Psylloidea species known to occur in the Czech Republic. As well as many widely distributed and generally common species, this also includes 17 species categorised in the Red List of threatened invertebrates of the Czech Republic. Especially noteworthy from the viewpoints of nature conservation and biogeography are some rare thermophilous species confined to sunny forest margins and/or dry grassland (*Cacopsylla albipes*, *C. viburni* (Löw, 1876), *Eryngiofaga lautereri* Loginova, 1977, and *Livilla radiata* (Foerster, 1848)), hygrophilous species inhabiting spring fens, wet meadows and shrubs along streams (*Aphalara calthae* (Linnaeus, 1761), *Bactericera maura* (Foerster, 1848), *B. modesta* (Foerster, 1848), *B. substriola*, *Cacopsylla abdominalis* (Meyer-Dür, 1871), and *C. elegantula* (Zetterstedt, 1840)), ruderal habitats (*Bactericera lyrata* and *B. trigonica* Hodkinson, 1981), and several orophilous/psychrophilous species largely restricted to floristically rich pastures and meadows in the central and north-eastern parts of the Bílé Karpaty Mts. (*Craspedolepta sonchi* (Foerster, 1848), *Trioza abdominalis* Flor, 1861, *T. cerastii* (Linnaeus, 1758), *T. chrysanthemi* Löw, 1878, *T. dispar* Löw, 1878, *T. proxima* Flor, 1861, and *T. schrankii* Flor, 1861). *Trioza agrophila* Löw, 1878, was known from the area only by deduction from findings of galls in the past and has not been confirmed in recent years. Three introduced species, *Cacopsylla hippophaes* (Foerster, 1848), *Livilla variegata* (Löw, 1881), and *Psylla buxi* (Linnaeus, 1758), occur in the Bílé Karpaty PLA only in villages, on ornamental woody plants in gardens, parks, and cemeteries.

Key words. Psyllids, Sternorrhyncha, faunistics, new records, nature conservation, White Carpathians, Moravia, central Europe

Introduction

The jumping plant-lice, or psyllids (Hemiptera: Sternorrhyncha: Psylloidea), are a relatively small group of phytophagous insects that feed by sucking plant sap. The group includes some 190 species in central Europe, usually with narrowly restricted host-plant ranges (BURCKHARDT 2002). The jumping plant-lice fauna of the Czech Republic is

fairly well-known; there is a tradition of investigating the group that goes back to the end of the 19th century (VONDRÁČEK 1957; LAUTERER 1984, 1998). Also taking into account some unpublished data from the collections of the Moravian Museum, Brno, 130 species of Psylloidea are currently known from the country (MALENOVSKÝ *et al.* 2011; Lauterer & Malenovský, unpublished). Faunistic knowledge of the individual regions of the Czech Republic is, however, quite uneven. While there are fairly numerous data on the occurrence of Psylloidea, from southern and western Moravia in particular (e.g. LAUTERER 1991, 1994, 1995, 1998, 1999; MALENOVSKÝ *et al.* 2011) and northern Bohemia (LAUTERER 2001, MALENOVSKÝ 2006), most other parts of the Czech lands remain poorly explored. A better knowledge of the distribution of individual species of Psylloidea may provide useful information for phytosanitary advisors and growers as some species are important vectors of phytoplasma diseases, particularly in fruit plantations (NAVRÁTIL *et al.* 2004; BURCKHARDT & LAUTERER 2009; JARAUSCH *et al.* 2009; TEDESCHI *et al.* 2009; LUDVÍKOVÁ *et al.* 2010, 2011), as well as for nature conservationists, as many central European species are restricted to endangered habitats such as species-rich grasslands, wetlands and natural forests, thus being under threat of extinction (LAUTERER & MALENOVSKÝ 2005).

The Bílé Karpaty Protected Landscape Area and Biosphere Reserve (abbreviated to PLA hereafter) covers the Czech part of the White Carpathian Mts. [Bílé Karpaty] extending along the Czech-Slovak border in south-eastern Moravia. Due to its specific geology (largely based on calcareous flysch), relief and hydrology, favourable geographical situation, relatively warm climate, post-glacial history, as well as traditional land use, the Bílé Karpaty PLA constitutes a biodiversity hotspot in the Czech Republic; the area is particularly famous for its floristically rich semi-natural grasslands (KUČA *et al.* 1992, MACKOVČIN & JATIOVÁ 2002, JONGEPIEROVÁ 2008, KONVIČKA *et al.* 2012).

A rich fauna of jumping plant-lice can thus be expected in this region as well. Hard data on the Psylloidea of the Bílé Karpaty PLA have previously, however, been somewhat scarce. BAYER (1909, 1914) made a start with records of two species, *Psyllopsis fraxini* and *Trioza proxima*, based on galls found in the environs of Luhačovice. LANG (1945) reported *Livia junci* from spring fens on Studený vrch Hill near Březová/Suchá Loz. BAUDYŠ (1966a,b) recorded three species, *Cacopsylla pyri*, *Trioza cerastii* and *T. urticae*, based on galls collected in the environs of Bojkovice, Bánov, Nivnice and Valašské Klobouky. HUBÁČEK (1979) published on records of galls of another three species, *Psyllopsis fraxini*, *Eryngiofaga cf. lautereri* and *Trioza agrophila*, from the environs of Blatnička and Hluk (the latter two places are situated close to, but outside, the administrative borders of the current Bílé Karpaty PLA). Some additional data were acquired on a number of field trips made by Pavel Lauterer and helpers from the Department of Entomology, Moravian Museum, Brno in the course of the 1970s and 1980s. These records were summarized for the subfamily Psyllinae by LAUTERER (1998, 1999); records of other taxa from this period remain unpublished to date and are evaluated in the current paper. Igor Malenovský initiated more extensive collecting activity throughout the Bílé Karpaty PLA in 1998, resulting in a profusion of data on additional species and localities. Some records have already been included in papers by MALENOVSKÝ (2001), LAUTERER & MALENOVSKÝ (2002) and MALENOVSKÝ & LAUTERER

(2005b,c). General texts on the grassland Hemiptera of the Bílé Karpaty PLA have been compiled by KMENT & MALENOVSKÝ (2008) and LAŠTŮVKA *et al.* (2008).

This paper aims to provide a complete list of species of the Psylloidea recorded in the Bílé Karpaty PLA to date, based on data published in literature and, particularly, on evaluation of the prolific additional material collected in the course of recent surveys.

Material and methods

Most data included in the paper were collected in 1998–2011 by sweeping or direct search on host plants. A few specimens were found in Malaise-trap and light-trap samples. Voucher specimens for most records are deposited in the collections of the Moravian Museum, Brno, including those collected in 1979–1985 by Pavel Lauterer, which have been examined for this paper as well. The material comes from a total of 104 collecting sites situated more or less throughout the Bílé Karpaty PLA (including some localities lying outside its current administrative borders, but close to them), although detailed data are still absent for some areas, particularly the environs of the towns of Bojkovice, Luhačovice, and Slavičín (see Fig. 1 and List of collecting sites).

The nomenclature and classification of Psylloidea follows BURCKHARDT (2002, 2008, 2011); the same sources, together with GEGECKORI & LOGINOVA (1990) and OSSIANNILSSON (1992), were used to extract brief accounts of the distribution and host plants of each species for the List of species section. The nomenclature of host plants is derived from KUBÁT *et al.* (2002). The conservation status of each psyllid species is categorised according to the Red List of threatened invertebrates of the Czech Republic (LAUTERER & MALENOVSKÝ 2005).

The following abbreviations are used in the paper: NM – Nature Monument, NNR – National Nature Reserve, NR – Nature Reserve, PLA – Protected Landscape Area (all of these are the various categories and terms specified by the Czech system of legally protected natural areas, Act No. 114/1992 coll.); LT – light trap, MT – Malaise trap; IM – Igor Malenovský leg., JJ – Jan Ježek leg., JM – Jan Macek leg., KD – Katarína Devánová leg., KF – Karel Fajmon leg., MH – Michal Horsák leg., PB – Petr Baňar leg., PBz – Pavel Bezděčka leg., PC – Pavel Chvojka leg., PK – Petr Kment leg., PL – Pavel Lauterer leg., RJ – Radek Janíček leg.; CR – critically endangered species, EN – endangered species, VU – vulnerable species, NT – near-threatened species (the latter four all categories derived from the Red List of threatened invertebrates of the Czech Republic; LAUTERER & MALENOVSKÝ 2005).

List of collecting sites

Each entry in the list of collecting sites is arranged as follows: number of locality, name of the nearest village or town, local name of the collecting site or name of the small-scale protected area (reserve) if appropriate, code of the field (in parentheses) in the faunistic and floristic grid mapping system of central Europe (EHRENDORFER & HAMANN 1965, PRUNER & MÍKA 1996, each basic field divided into 16 subfields; KONVIČKA *et al.* 2012), GPS coordinates, altitude, and habitat.

1. Luhačovice (6872/6972); precise location of collecting sites unknown.
- 1a. Pozlovice, towards Horní Lhota (6872d1), ca. 350–400 m a.s.l., 49°08'14"N 17°46'511"E; precise location of the collecting site unknown.
2. Petrůvka, U Petrůvky NM (6872d4), 49°06'35"N 17°48'38"E, 360–400 m a.s.l.; mesic meadows, pasture, forest margins.
3. Valašské Klobouky, Brumovská street – 0.4–0.7 km SE from town centre (6874c1), 49°08'06"N 18°00'50"E, 380–400 m a.s.l.; mesic meadows and shrubs, gardens, ornamental and ruderal vegetation.
4. Valašské Klobouky, U Rybníků – valley of an unnamed brook on NW slopes of Královec hill (6874c1), 49°08'15"N 18°01'16"E, 430–510 m a.s.l.; shore vegetation around small ponds, alder carr, spruce monoculture forest.
5. Valašské Klobouky, Javorůvky NR (6874c1), 49°08'03"N 18°01'57"E, 510–575 m a.s.l.; mesic to wet meadows, spring fen, forest margins.
6. Valašské Klobouky, Dobšená NM (6874c1), 49°07'55"N 18°02'04"E, 525–580 m a.s.l.; dry to mesic meadows, spring fen, spruce monoculture margin.
7. Valašské Klobouky, Brumovka (= Kloboucký potok) brook valley – SW slopes of Královec hill 1.5 km SSE from town centre (6874c1), 49°07'47"N 18°01'03"E, 400–480 m a.s.l.; meadows, spring fens, forest margins.
8. Valašské Klobouky, Na Nivách – 1.3 km SWW from the top of the Královec hill (6874c1), 49°07'48"N 18°01'25", 555 m a.s.l.; spring fen, meadows, shrubs and trees, forest road vegetation.
9. Valašské Klobouky, Královec hill – main ridge and hilltop environs (6874c1/c2), 49°07'59"N 18°02'01"E, 570–650 m a.s.l.; spruce monoculture, forest glades.
10. Poteč, Ploščiny NR (6874c2), 49°08'22"N 18°03'42"E, 670–739 m a.s.l.; mesic to dry meadows, pastures, forest margins, forest glades.
11. Valašské Klobouky, Bílé potoky NR (6874c3), 49°07'01"N 18°01'25"E, 380–500 m a.s.l., mesic to wet meadows and pastures, spring fens, forest margins, forest undergrowth.
12. Návojná, Vrchy hill (6874c3), 49°07'03"N 18°02'13"E, 550–600 m a.s.l.; spruce and beech forest undergrowth, glades.
13. Brumov, Uhlíčky (6874c3), 49°06'16"N 18°01'57"E, 390–400 m a.s.l.; mesic meadows.
14. Nedašov, village (6874c4), 49°06'33"N 18°04'04"E, 410–430 m a.s.l.; ruderal and brook-side vegetation, meadows and pastures.
15. Nedašov, Jalovcová stráž NR (6874d3), 49°06'06"N 18°05'35"E, 580–650 m a.s.l.; dry pastures, meadows, spring fens, forest margins.
16. Nedašov, Kaňoury NM (6874d3), 49°06'52"N 18°06'21"E, 610–660 m a.s.l.; dry to mesic meadows, solitary trees and shrubs, forest margins.
17. Nedašov, Kaňúr hill and Hrušová dolina valley (6874d3), 49°06'23"N 18°06'35"E, 630–750 m a.s.l.; meadows, pastures, meadow and forest spring fens.
18. Luhačovice, Luhačovická dolina valley (6972a2), 49°05'18"N 17°44'26"E, 230–300 m a.s.l.; forest margins, meadows.
19. Petrůvka, Kladenka brook valley (6972b2), 49°05'50"N 17°48'53"E, 390 m a.s.l.; alder carr.
20. Bojkovice, town (6972d2), 49°02'38"N 17°48'22"E, 330–360 m a.s.l.; ruderal vegetation.
21. Rokytnice, Bukovina hill (6973a4), 49°03'31"N 17°53'31"E, 440–450 m; beech forest, clearings (locality cited as Slavičín-Hrádek na Vlárské dráze in LAUTERER 1999).
22. Popov, Havránkův potok brook valley (6973b2), 49°05'29"N 17°57'50"E, 360–400 m a.s.l.; forest margins, meadows, pastures, streamside vegetation.
23. Štítná nad Vlárí (6973b4); precise location of collecting sites unknown.
24. Brumov, Kloboucká street (6974a1), 49°05'54"N 18°01'47"E, 350–400 m a.s.l.; dry to mesic sheep pastures.
25. Bylnice, Na Stráži (6974a1), 49°04'40"N 18°00'30"E, 350–390 m a.s.l.; dry grassland, shrubs.
26. Bylnice, Bylničky – S slopes of Tarandové hill towards Bylnička brook (6974a2/a4), 49°04'33"N 18°02'10"E, 360–530 m a.s.l.; streamside vegetation, pastures, dry to mesic meadows, birch stands (locality cited as Bylnice, Na Tatrách in LAUTERER 1998 and 1999).
27. Bylnice, railway station environs (6974a3), 49°04'05"N 18°00'53"E, 300 m a.s.l.; dry to wet ruderal vegetation, woody streamside vegetation along the Vlára river.

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28. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (6974a3), 49°03'33"N 18°00'34"E, 380–425 m a.s.l.; mesic to wet meadows, spring fens, forest margins.
29. Nedašov, Na Salaši (6974b1), 49°05'41"N 18°06'10"E, 500–600 m a.s.l.; tall-sedge bed in beech forest, streamside vegetation.
30. Nedašov, Pod Cigánem NM (6974b1), 49°05'43"N 18°05'26"E, 575–605 m a.s.l.; mesic to wet meadows and pastures, spring fen.
31. Svatý Štěpán, Nadříčí (6974c1), 49°02'29"N 18°02'14"E, 300–330 m a.s.l.; broad-leaved forest, vegetation along forest brook, river shore.
32. Sidonie, Vlárský průsmyk pass (6974c2), 49°01'53"N 18°03'06"E, 270 m a.s.l.; river shore vegetation [on the Czech-Slovak state border, near Horné Srnie-Rybníky].
33. Hluk, Kobylí hlava NM (7071a3), 48°57'22"N 17°31'31"E, 330–340 m a.s.l.; dry grassland, forest glade, forest margins.
34. Hluk, Babí hora NM (7071a4), 48°57'23"N 17°33'47"E, 320–330 m a.s.l.; fragment of dry grassland, shrubs.
- 34a. Nivnice (7071b2/b4); precise location of collecting site unknown.
35. Blatnička, Milejovské louky meadows (7071c1), 48°56'45"N 17°30'44"E, 270–295 m a.s.l.; dry meadows, reed, shrubs.
36. Blatnička, Jasenová hill (7071c2), 48°56'16"N 17°33'02"E, 270–400 m a.s.l.; oak-hornbeam forest, meadows.
37. Boršice u Blatnice, Boršický potok brook valley (7071c2), 48°56'46"N 17°34'04"E, 260–280 m a.s.l.; ruderal and streamside vegetation, dry grassland, forest undergrowth.
38. Louka, Hloží NR (7071c3), 48°54'39"N 17°30'26"E, 270–300 m a.s.l.; dry grassland, shrubs.
39. Horní Němčí, village (7071d1), 48°55'42"N 17°37'40"E, 330–350 m a.s.l.; ruderal and ornamental vegetation.
40. Horní Němčí, Hornoněmčanský háj forest (7071d1), 48°55'02"N 17°37'43"E, 380–400 m a.s.l.; oak-hornbeam forest.
41. Korytná, Břeží (7071d2), 48°55'32"N 17°39'48"E, 400–450 m a.s.l.; pastures, solitary trees and shrubs, forest margins.
42. Suchov, Kazivec brook valley (7071d3), 48°54'14"N 17°36'57"E, 480–550 m a.s.l.; mesic to wet meadows, streamside vegetation.
43. Horní Němčí, Drahy NR (7071d4), 48°55'20"N 17°38'13"E, 380–510 m a.s.l.; dry grassland, meadows and pastures, spring fens, solitary trees and shrubs, orchards.
44. Horní Němčí, Vinohrádky (7071d4), 48°55'19"N 17°38'35"E, 430–500 m a.s.l.; intensively used cattle pasture.
45. Horní Němčí, Horní kopec hill (7071d4), 48°54'60"N 17°39'12"E, 550–590 m a.s.l.; forest road margin, broad-leaved forest.
46. Horní Němčí, Lesná hill (7071d4/7171b2), 48°53'54"N 17°38'53"E, 550–690 m a.s.l.; meadows and pastures, solitary shrubs and trees, forest margins.
47. Bánov, Skalky hill (7072a2), 48°58'52"N 17°44'34"E, 350–380 m a.s.l.; ruderal vegetation, fields, dry grassland, shrubs.
48. Komňa, Nový Dvůr (7072b2), 48°58'43"N 17°48'15"E, 480–500 m a.s.l.; forest margins, meadow, roadside vegetation.
49. Komňa, Lom Rasová NM (7072b2), 48°58'34"N 17°48'42"E, 540–570 m a.s.l.; abandoned sandstone quarry with pond, dry grassland, spring fen, solitary trees and shrubs.
50. Vápenice, Trstná brook valley (7072b4), 48°58'30"N 17°49'37"E, 430–500 m a.s.l.; spruce forest monoculture, forest glades, streamside vegetation.
51. Korytná, village (7072c1), 48°56'27"N 17°39'54"E, 290–300 m a.s.l.; ornamental gardens.
52. Korytná, Lubná pond environs (7072c1), 48°56'48"N 17°40'51"E, 320 m a.s.l.; shore vegetation.
53. Březová, Kalábová NM (7072c2), 48°56'22"N 17°44'38"E, 500–550 m a.s.l.; spring fen (including the material cited by LANG (1945) from the site no. III: Suchá Loz – Studený vrch hill; based on Lang's indication that his collecting sites were small spring fens situated on the south-eastern slope of the Studený vrch hill, he collected probably close to the current Kalábová NM).

54. Strání, Hrnčárky NM and Žabka reservoir surroundings (7072c3), 48°54'32"N 17°40'34"E, 440–500 m a.s.l.; dry to mesic meadows, spring fen, disturbed wetland vegetation on reservoir shores, solitary trees and shrubs, forest margins, forest road.
55. Strání, Obecnice hill (7072c3), 48°54'51"N 17°40'55"E, 530–550 m a.s.l.; dry, intensively used sheep pasture, shrubs.
56. Strání, village (7072c3), 48°54'13"N 17°42'06"E, 400 m a.s.l.; ornamental vegetation.
57. Strání, Důbrava hill (7072c4), 48°55'05"N, 17°43'29"E, 540–550 m a.s.l.; forest glade.
58. Lopeník, U Zvonice NM (7072d1), 48°56'25"N 17°47'12"E, 630–670 m a.s.l.; mesic to wet meadows, spring fens, solitary trees and shrubs, small woods.
59. Lopeník, Lopenické sedlo (7072d2), 48°56'13"N 17°48'04"E, 700–720 m a.s.l.; cattle pasture, spring fen, solitary trees and shrubs.
60. Lopeník, Mikulčin vrch hill (7072d2), 48°56'40"N 17°48'26"E, 700–790 m a.s.l.; beech forest, spruce monoculture, forest glade.
61. Žitková, Hutě NR (7073a2), 48°59'24"N 17°54'21"E, 460 m a.s.l.; meadow spring area, mesic meadow.
62. Vápenice, Krátkovský potok brook valley (7073a3), 48°58'04"N 17°50'42"E, 550 m a.s.l.; streamside vegetation.
63. Starý Hrozenkov, Skalka (= Hrozenkovský lom) quarry (7073a3), 48°58'22"N 17°52'12"E, 550–580 m a.s.l.; dry grassland, forest margins, dry to wet ruderal vegetation in abandoned basalt quarry.
64. Starý Hrozenkov, Hrozenkovské terasy (7073a3), 48°58'15"N 17°51'51"E, 470–550 m a.s.l.; apple orchard grazed by cattle, shrubs, disturbed spring fens.
65. Vyškovec, Vyškovecké Bošačky (7073c1), 48°55'52"N 17°49'55"E, 550 m a.s.l.; dry cattle pasture, mesic meadows, orchard.
66. Vyškovec, Pod Hřibovňou NM (7073c1), 48°55'58"N 17°50'43"E, 550–640 m a.s.l.; mesic meadows and pastures, shrubs, small woods.
67. Vyškovec, Ve Vlčí NR (7073c1), 48°55'46"N 17°51'25"E, 600–700 m a.s.l.; dry to mesic meadows, forest margins, small woods.
68. Radějov, Žerotín NM (7169b4), 48°51'44"N 17°19'34"E, 290–320 m a.s.l.; dry grassland, open thermophilous oak forest, solitary trees and shrubs, spring fen, fields.
69. Kněždub, village (7170a2), 48°53'14"N 17°23'59"E, 190 m a.s.l.; ornamental vegetation.
70. Radějov, village (7170a3), 48°51'44"N 17°20'21"E, 236 m a.s.l.; orchards, gardens, ornamental vegetation.
71. Radějov, Holý vrch hill (7170a3), 48°51'03"N 17°20'01"E, 280–380 m a.s.l.; ruderal grassland, forest margins.
72. Kněždub, Kněždubský háj forest (7170a4), 48°52'14"N 17°24'31"E, 270–350 m a.s.l.; oak and hornbeam forest, forest margins.
73. Radějov, Lučina (7170a4), 48°51'46"N 17°23'45"E, 300 m a.s.l.; floodplain woodland, shrubs and trees, nitrophilous vegetation along brook and around pond.
74. Kněždub, Čertoryje NNR – Járkovec brook valley (7170a4/c2), 48°51'18"N 17°24'44"E, 320–440 m a.s.l.; dry to wet meadows, spring fens, solitary trees and shrubs, forest margins.
75. Kněždub, Čertoryje NNR – Radějovka brook valley (7170b3), 48°51'38"N 17°25'43"E, 350–440 m a.s.l.; mesic to wet meadows, solitary trees and shrubs, streamside vegetation.
76. Malá Vrbka, Výzkum hill (7170b3), 48°52'03"N 17°26'27"E, 350–430 m a.s.l., restored grassland on arable land, disused fields, ruderal vegetation, forest margins.
77. Malá Vrbka, village (7170b3), 48°52'09"N 17°27'33"E, 280 m a.s.l.; ornamental gardens.
78. Hrubá Vrbka, football ground (7170b4), 48°52'07"N 17°28'08"E, 260 m a.s.l.; mesic to dry ruderal vegetation, windbreaks.
79. Hrubá Vrbka, village (7170b4), 48°52'13"N 17°28'49"E, 260 m a.s.l.; ornamental vegetation.
80. Radějov, Měsíční údolí valley (7170c1), 48°50'28"N 17°20'54"E, 280–330 m a.s.l.; forest margins, streamside vegetation, meadows.
81. Radějov, Veselka hill (7170c1/c2), 48°50'31"N 17°22'38"E, 300–495 m a.s.l.; oak and hornbeam forest.

Jumping plant-lice (Hemiptera: Psylloidea)

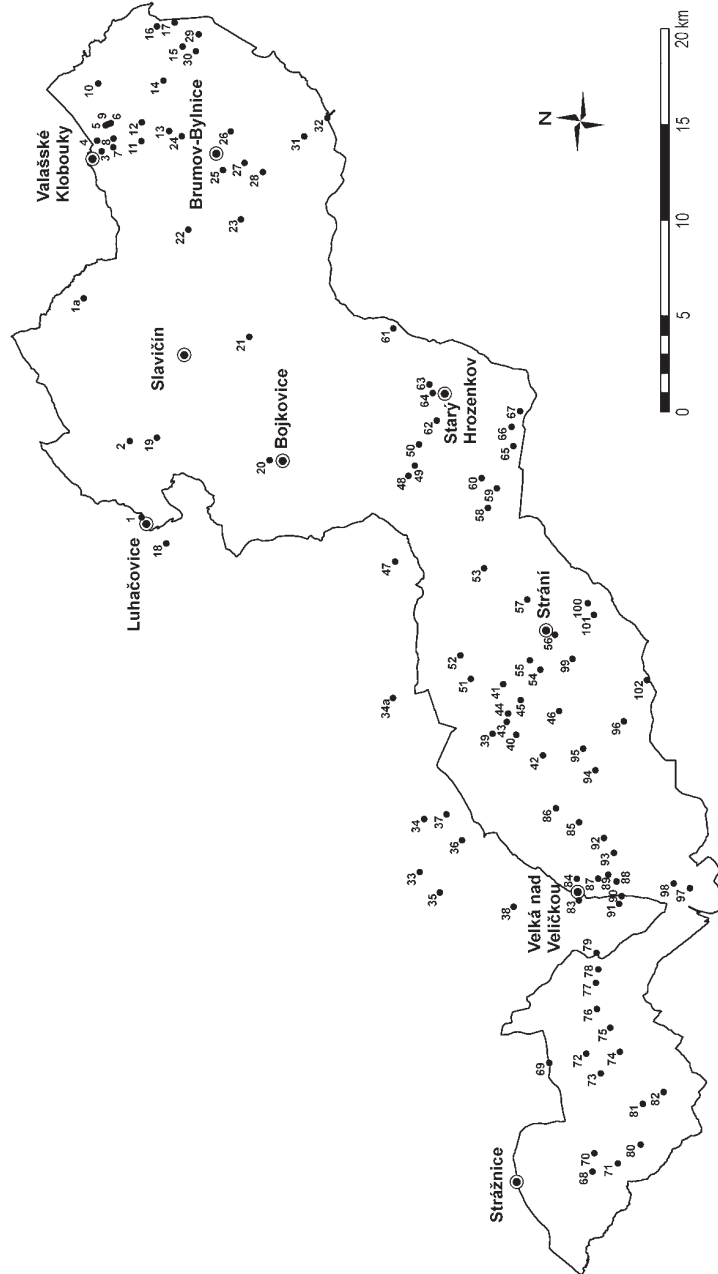


Fig. 1. Simplified map of the Bílé Karpaty PLA with the location of the collecting sites studied.

82. Radějov, Kútky NR (7170c2), 48°49'58"N 17°23'13"E, 350–480 m a.s.l.; mesic meadows, spring fens, forest margins.
83. Velká nad Veličkou, village (7171a1), 48°52'51"N 17°30'58"E, 290–330 m a.s.l.; ruderal vegetation, orchards and ornamental gardens.
84. Velká nad Veličkou, Zahrady pod Hájem NNR (7171a1), 48°52'58"N 17°31'52"E, 300–480 m a.s.l.; dry grassland, meadows, orchards, small fields, solitary trees and shrubs, forest margins.
85. Suchov, Suchovské Mlýny (7171a2), 48°53'03"N 17°34'16"E, 360–380 m a.s.l.; dry sheep pastures, mesic meadows, spring fen, streamside vegetation.
86. Suchov, Trnovský Mlýn (7171a2), 48°53'44"N 17°34'46"E, 440–450 m a.s.l.; dry sheep pastures, mesic meadows.
87. Velká nad Veličkou, towards Javorník (7171a3), 48°52'22"N 17°31'58"E, 330–390 m a.s.l.; meadows.
88. Javorník, village (7171a3), 48°51'51"N 17°31'55"E, 310–320 m a.s.l.; ruderal and ornamental vegetation.
89. Javorník, SW slopes of Háj hill (7171a3), 48°52'06"N 17°32'10"E, 260–300 m a.s.l.; dry grassland, meadows.
90. Javorník, Nad Vápenkou NM (7171a3), 48°51'40"N 17°31'19"E, 360 m a.s.l.; dry grassland, shrubs.
91. Javorník, loampit W of village (proposed as Javorník-hliník NM) (7171a3), 48°51'43"N 17°30'59"E, 350–390 m a.s.l.; abandoned loampit, dry grassland, spring fen, ruderal vegetation, shrubs, railway embankment.
92. Javorník, Jazevčí NNR (7171a4), 48°52'19"N 17°33'42"E, 340–475 m a.s.l.; mesic to dry meadows, spring fens, solitary trees and shrubs, forest margins, small woods.
93. Javorník, Petruchovy Mlýny (7171a4), 48°52'00"N 17°33'07"E, 370 m a.s.l.; dry to mesic meadows, cattle pasture.
94. Nová Lhota, Fojtické Mlýny (7171b1), 48°52'44"N 17°36'32"E, 440–480 m a.s.l.; meadows.
95. Nová Lhota, Vápenky, Porážky NNR (7171b1/b2), 48°53'08"N 17°37'24"E, 550–640 m a.s.l.; meadows, forest fringes.
96. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (7171b4), 48°52'04"N 17°38'43"E, 470–900 m a.s.l.; streamside vegetation, beech forest.
97. Javorník, Machová NR (7171c1), 48°49'47"N 17°31'56"E, 380–575 m a.s.l.; meadows, spring fens, solitary trees and shrubs, forest margins.
98. Javorník, Výzkum hill – W and SW slopes (7171c1), 48°50'15"N 17°32'04"E, 460–500 m a.s.l.; meadows, shrubs.
99. Strání, Záhumenice NM (7172a1), 48°53'40"N 17°41'09"E, 450–510 m a.s.l.; mesic to wet meadows, cattle pasture, forest margins, small woods.
100. Strání, Nová hora NR (7172a2), 48°53'23"N 17°43'34"E, 400–490 m a.s.l.; mesic meadows, forest margins.
101. Strání, Květná, village (7172a2), 48°53'11"N 17°43'06"E, 350 m a.s.l.; ornamental gardens.
102. Strání, Javorina NNR (7172a3), 48°51'32"N 17°40'33"E, 830–970 m a.s.l.; submontane meadow, beech and ravine forests, forest glades.

Annotated list of species

All material examined for each species is listed with individual records ordered according to the number of the collecting site. Each record is arranged as follows: name of the collecting site and its number (in parentheses), date(s) of collection(s), number of specimens, and collector(s). For previously published records, only name and number of the collecting site are given; other details of these records can mostly be found in the corresponding papers.

Family PSYLLIDAE

Aphalara avicularis Ossiannilsson, 1981

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (74, 75).

Additional material examined. Valašské Klobouky, Brumovská street (3), 9.ix.1999, 2 ♂♂ 1 ♀, IM. Nedašov, Jalovcová stráň NR (15), 3.vii.1999, 1 ♂, IM. Bylnice, railway station environs (27), 11.ix.1999, 2 ♂♂, IM. Boršice u Blatnice, Boršický potok brook valley (37), 16.viii.1984, 8 ♂♂ 6 ♀♀, PL. Horní Němčí, Vinohrádky (44), 13.viii.2001, 1 ♂, IM. Bánov, Skalky hill (47), 21.viii.1984, many ♂♂ ♀♀, PL. Komňa, Nový Dvůr (48), 21.viii.1984, 4 ♂♂ 3 ♀♀, PL. Lopeník, Lopenické sedlo (59), 27.vi.2004, 1 ♀; 25.ix.2004, 3 ♂♂ 2 ♀♀; 21.v.2005, 1 ♀; all IM. Radějov, Žerotín NM (68), 11.vii.1998, many ♂♂ ♀♀, IM. Malá Vrbka, Výzkum hill (76), 17.iv.2000, 8 ♂♂ 3 ♀♀; 27.vii.2000, 2 ♂♂ 2 ♀♀; 2.v.2001, 2 ♂♂ 3 ♀♀; 22.vi.2001, 1 ♂; 20.ix.2001, 1 ♀; all IM & PK. Hrubá Vrbka, football ground (78), 20.ix.2001, 4 ♀♀, IM. Velká nad Veličkou, village (83), 22.x.2000, 1 ♀, IM. Javorník, Petruchovy Mlýny (93), 23.ix.2001, 1 ♀; 7.ix.2002, 1 ♂; both IM. Javorník, Machová NR (97), 9.vii.1998, 1 ♂ 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area and locally common in trampled places, along roads and paths, in fields, and dry ruderal sites. **General distribution:** European. **Host plants:** *Polygonum aviculare* agg. **Red List status:** –.

Aphalara calthae (Linnaeus, 1761)

(VU)

(Fig. 2)

Material examined. Valašské Klobouky, Javorůvky NR (5), 22.v.1999, 1 ♂ 1 ♀, IM. Valašské Klobouky, Bílé potoky NR (11), 19.v.1999, 1 ♀, IM. Nedašov, Kaňúr hill and Hrušová dolina valley (17), 20.v.1999, 1 ♂; 3.vii.1999, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Associated with spring fens at relatively cool sites in the north-eastern part of the area, rare. **General distribution:** Palaearctic. **Host plant:** *Caltha palustris*. **Red List status:** Vulnerable.

Comments. *Aphalara calthae* is currently a quite rare species in the Czech Republic that has been recorded from wet meadows e.g. in northern and central Moravia and the Jizerské hory and Krkonoše Mts. in northern Bohemia (LAUTERER 1963, 1981, 2001).

Aphalara exilis (Weber et Mohr, 1804)

Material examined. Valašské Klobouky, Javorůvky NR (5), 22.v.1999, 1 ♀; 11.ix.1999, 1 ♂ 5 ♀♀; all IM. Valašské Klobouky, Brumovka brook valley (7), 9.ix.1999, 1 ♀, IM. Valašské Klobouky, Na Nivách (8), 9.ix.1999, 1 ♀, IM. Nedašov, Jalovcová stráň NR (15), 16.viii.2006, 2 ♀♀, PK. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Restricted to wet meadows and pastures in the north-eastern part of the area, uncommon. **General distribution:** West Palaearctic. **Host plant:** *Rumex acetosa*. **Red List status:** –.

Aphalara freji Burckhardt et Lauterer, 1997

= *Aphalara polygoni* auct. nec Foerster, 1848

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (74).

Additional material examined. Valašské Klobouky, U Rybníků (4), 10.ix.1999, 2 ♀♀, IM. Valašské Klobouky, Královec hill (9), 13.ix.1999, 1 ♂ 1 ♀, IM. Valašské Klobouky, Bílé potoky NR (11), 9.ix.1999, ?1 ♀, IM. Bylnice, railway station environs (27), 11.ix.1999, 1 ♂ 3 ♀♀, IM. Sidonie, Vlárský průsmyk pass (32), 12.ix.1999, 7 ♂♂ 9 ♀♀, IM. Horní Němčí, Drahy NR (43), 21.vii.2002, 1 ♂, IM. Starý Hrozenkov, Hrozenkovské terasy (64), 2.vii.2007, ?2 ♀♀, IM. Malá Vrbka, Výzkum hill (76), 28.vii.2001, ?3 ♀♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (84), 13.vii.1998, 1 ♂ 3 ♀♀, IM. Strání, Javorina NNR (102), 29.x.2011, 2 ♂♂ 4 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area on shores of standing and running water, in ditches along roads, and in wet ruderal sites; overwintering specimens were found also at the highest elevations on the top of Mt Velká Javořina. Identification of some females is uncertain. **General distribution:** West Palaearctic. **Host plants:** *Persicaria* spp. (*P. amphibia*, *P. hydropiper*, *P. lapathifolia*, *P. maculosa*, and *P. tomentosa*). **Red List status:** –.

Aphalara maculipennis Löw, 1886

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (74, 75).

Additional material examined. Valašské Klobouky, U Rybníků (4), 10.ix.1999, 1 ♂, IM. Malá Vrbka, Výzkum hill (76), 2.v.2001, 1 ♀; 20.ix.2001, 1 ♂; all IM & PK. Velká nad Veličkou, village (83), 28.iv.2000, 1 ♂ 2 ♀♀, IM. Javorník, Jazevčí NNR (92), 6.v.2000, 1 ♀, IM. Strání, Javorina NNR (102), 29.x.2011, 4 ♂♂ 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread throughout the area but uncommon. On shores of standing and running water, in ditches along roads, and in wet fields; overwintering specimens were found also at the highest elevations on the top of Mt Velká Javořina. **General distribution:** Palaearctic. **Host plants:** *Persicaria amphibia*, *P. lapathifolia*, and *P. tomentosa*. **Red List status:** –.

Aphalara polygoni Foerster, 1848

= *Aphalara rumicicola* Klimaszewski, 1966

Material examined. Valašské Klobouky, Javorůvky NR (5), 11.ix.1999, ?2 ♀♀, IM. Nedašov, Pod Cigánem NM (30), 28.vii.2005, 1 ♂, IM. Vápenice, Trstná brook valley (50), 6.vii.2001, 4 ♂♂ 11 ♀♀, IM & PK. Lopeník, Mikulčín vrch hill (60), 24.vii.2005, 1 ♂ 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Recorded only for the central and north-eastern parts of the area, rare. In forest glades and wet meadows, usually on

acidic substrates. Identification of some females is uncertain. **General distribution:** European. **Host plants:** *Rumex acetosa*, *R. acetosella*, and *R. scutatus*. **Red List status:** –.

Comments. Partly because of its critical taxonomy (see OSSIANNILSSON & JANSSON 1981, OSSIANNILSSON 1992, BURCKHARDT & LAUTERER 1997a), *Aphalara polygoni* has been a poorly documented species in the Czech Republic. The only previously published and confirmed finding for the country is from the Hrubý Jeseník Mts. (LAUTERER 1993). Based on an unpublished material from the collections of the Moravian Museum, Brno, the species is, however, quite widespread in the country, although it probably occurs only locally in regions with acidic bedrock.

Aphalara purpurascens (Hartig, 1841)

= *Aphalara crispicola* Ossiannilsson, 1987

Material examined. Valašské Klobouky, Dobšená NM (6), 2.vii.1999, 3 ♂♂ 1 ♀, IM. Valašské Klobouky, Bílé potoky NR (11), 16.vi.2006, 2 ♂♂ 4 ♀♀, IM. Nedašov, Kaňúr hill and Hrušová dolina valley (17), 20.v.1999, 2 ♂♂ 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Recorded only for the north-eastern part of the area, rare. Associated with *Rumex obtusifolius* on forest roads and in wet pastures. **General distribution:** European. **Host plants:** *Rumex aquaticus*, *R. conglomeratus*, *R. crispus*, *R. longifolius*, and *R. obtusifolius*. **Red List status:** –.

Baeopelma foersteri (Flor, 1861)

Published records. LAUTERER (1998): Luhačovice, Luhačovická dolina valley (18); Popov, Havránkův potok brook valley (22); Bylnice, Bylničky (26); Komňa, Nový Dvůr (48); Radějov, Kútky NR (82). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (74, 75).

Additional material examined. Valašské Klobouky, Brumovka brook valley (7), 30.vi.1999, 1 ♀, MH. Valašské Klobouky, Bílé potoky NR (11), 16.vi.2006, 4 ♂♂ 1 ♀; 11.vii.2006, 1 ♂ 1 ♀; all IM. Bylnice, railway station environs (27), 1.vii.1999, 1 ♂ 1 ♀, MH & PK. Blatnička, Milejovské louky meadows (35), 11.vii.2009, 8 ♂♂ 8 ♀♀; 16.viii.2009, 1 ♂; all PB. Horní Němčí, Drahy NR (43), 30.vi.2001, 4 ♂♂ 7 ♀♀, IM; 21.ix.2001, 1 ♂, PK; 23.v.2002, 1 ♂, IM. Korytná, Lubná pond environs (52), 5.vii.2001, 2 ♀♀, IM. Březová, Kalábová NM (53), 4.vii.2001, 2 ♂♂ 3 ♀♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (54), 10.vii.1998, 4 ♂♂ 2 ♀♀, IM. Vápenice, Krátkovský potok brook valley (62), 6.vii.2001, 1 ♂, IM & PK. Starý Hrozenkov, Hrozenkovské terasy (64), 2.vii.2007, 2 ♂♂ 2 ♀♀, IM. Radějov, Lučina (73), 14.vii.1998, 2 ♂♂ 1 ♀; 17.vi.2000, 1 ♀; all IM. Hrubá Vrbka, football ground (78), 19.vi.2000, 2 ♀♀, IM & PK. Velká nad Veličkou, Zahrady pod Hájem NNR (84), 13.vii.1998, 2 ♀♀, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (96), 12.vii.1998, 7 ♂♂ 4 ♀♀, IM. Javorník, Machová NR (97), 9.vii.1998, 2 ♂♂ 3 ♀♀, IM. Strání, Záhumenice NM (99), 2.vii.2001, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area in the vicinity of running or standing water and in wet grassland and spring fens. **General distribution:** Palaearctic. **Host plants:** *Alnus glutinosa* and *A. incana*. **Red List status:** –.

***Cacopsylla abdominalis* (Meyer-Dür, 1871) (EN) (Fig. 3)**

Material examined. Bylnice, railway station environs (27), 11.ix.1999, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Collected only from the streamside vegetation of the Vlára river in the north-eastern part of the area. **General distribution:** Europe (except Scandinavia), Caucasus, Central Asia, Mongolia. **Host plants:** *Salix* spp. (*S. alba*, *S. aurita*, *S. caprea*, *S. elaeagnos*, *S. purpurea*, and *S. viminalis*). **Red List status:** Endangered.

Comments. *Cacopsylla abdominalis* is a sporadic species in the Czech Republic that was collected only at three sites in central and south-eastern Moravia in the past 50 years (LAUTERER 1999). Usually, it is associated with *Salix purpurea* and *S. viminalis* but some other willow species have also been reported as hosts in literature (LAUTERER & BURCKHARDT 1997, LAUTERER 1999).

***Cacopsylla affinis* (Löw, 1880)**

Published records. LAUTERER (1982): Strání, Důbrava hill (57); Kněždub, Čertoryje NNR (74, 75); Javorník, SW slopes of Háj hill (89). LAUTERER (1999): Horní Němčí, Hornoněmčanský háj forest (40); Velká nad Veličkou, towards Javorník (87); Javorník, Výzkum hill (98). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (74, 75).

Additional material examined. Nedašov, Kaňoury NM (16), 17.vi.2006, 2 ♂♂, IM. Brumov, Kloboucká street (24), 30.vi.2004, 1 ♂, IM. Bylnice, Na Stráži (25), 16.vi.2006, 2 ♂♂, IM. Louka, Hloží NR (38), 24.iv.1999, 1 ♂ 1 ♀, MH. Horní Němčí, Drahy NR (43), 23.v.2002, 12 ♂♂, IM. Lopeník, U Zvonice NM (58), 25.ix.2004, 1 ♂, IM. Kněždub, Čertoryje NNR, Járkovec brook valley (74), 2.vi.2008, 1 ♂; 7.vi.2010, 1 ♂ 1 ♀; all IM. Velká nad Veličkou, village (83), 28.iv.2000, 3 ♂♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (84), 18.iv.2000, 3 ♂♂, IM. Suchov, Suchovské Mlýny (85), 26.v.2005, 11 ♂♂ 10 ♀♀, IM. Javorník, Petruchovy Mlýny (93), 24.v.2002, 15 ♂♂ 12 ♀♀; 26.v.2005, 2 ♂♂; all IM. Strání, Záhumenice NM (99), 23.v.2002, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common on solitary hawthorn shrubs scattered in grassland and at sunny margins of scrub and small woods throughout the area. **General distribution:** European. **Host plants:** *Crataegus* spp. **Red List status:** –.

***Cacopsylla albipes* (Flor, 1861) (Fig. 4)**

Material examined. Valašské Klobouky, Bílé potoky NR (11), 11.vii.2006, 1 ♂ 4 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Known only from one site in the north-eastern part of the area; collected at a sunny forest margin. **General distribution:** Europe (Austria, France, Germany, Great Britain, Italian mainland, Poland, Slovakia, Switzerland, and Ukraine), Caucasus. **Host plants:** *Sorbus* spp. (e.g. *S. aria* and *S. torminalis*). **Red List status:** Not evaluated.

Comments. *Cacopsylla albipes* is recorded here for the Czech Republic for the first time. In central Europe, it is generally a rare species confined to open woodland, often in hilly

situations or mountains (LAUTERER 1965, CONCI *et al.* 1993). In western Slovakia, *C. albipes* was recorded on *Sorbus torminalis* (LAUTERER 1965) which is a probable host plant also in the Bílé Karpaty PLA.

***Cacopsylla ambigua* (Foerster, 1848)**

Published records. LAUTERER (1999): Strání, Dúbrava hill (57). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (74, 75).

Additional material examined. Valašské Klobouky, Brumovská street (3), 19.v.1999, 4 ♂♂ 6 ♀♀, IM. Valašské Klobouky, U Rybníků (4), 22.v.1999, 2 ♀♀, IM. Valašské Klobouky, Javorůvky NR (5), 22.v.1999, 2 ♂♂ 3 ♀♀, IM. Valašské Klobouky, Brumovka brook valley (7), 19.v.1999, 1 ♂ 1 ♀, IM. Nedašov, Jalovcová stráž NR (15), 20.v.1999, 3 ♂♂; 17.vi.2006, 1 ♂ 1 ♀; all IM. Nedašov, Kaňúr hill and Hrušová dolina valley (17), 20.v.1999, 3 ♂♂ 7 ♀♀, IM. Bylnice, railway station environs (27), 1.vii.1999, 1 ♀, MH & PK. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 21.v.1999, 2 ♂♂ 7 ♀♀, IM. Korytná, Březí (41), 5.vii.2001, 1 ♂ 2 ♀♀, IM. Horní Němčí, Drahy NR (43), 30.vi.2001, 4 ♀♀, IM. Horní Němčí, Lesná hill (46), 15.v.1998, 2 ♂♂ 5 ♀♀, IM. Komňa, Lom Rasová NM (49), 5.vii.2001, 1 ♀, IM. Vápenice, Trstná brook valley (50), 6.vii.2001, 1 ♀, IM & PK. Strání, Hrnčárky NM and Žabka reservoir surroundings (54), 16.v.1998, 2 ♂♂ 2 ♀♀; 10.vii.1998, 5 ♂♂ 5 ♀♀; all IM. Starý Hrozenkov, Skalka quarry (63), 2.vii.2007, 1 ♂ 1 ♀, IM. Vyškovec, Ve Vlči NR (67), 22.v.2005, 5 ♂♂ 1 ♀, IM. Radějov, Lučina (73), 22.vi.2001, 2 ♀♀, IM & PK. Suchov, Suchovské Mlýny (85), 6.v.2000, 1 ♂; 29.vi.2001, 2 ♂♂ 3 ♀♀; all IM. Javorník, loampit W of village (91), 24.v.2002, 3 ♂♂ 1 ♀, IM. Javorník, Jazevčí NNR (92), 6.v.2000, 6 ♂♂ 3 ♀♀; 19.vi.2000, 1 ♂ 1 ♀; all IM. Javorník, Machová NR (97), 14.v.1998, many ♂♂ ♀♀; 9.vii.1998, 1 ♀; all IM. Strání, Záhumenice NM (99), 2.vii.2001, 2 ♂♂ 12 ♀♀, IM; 23.v.2002, 1 ♂ 5 ♀♀, PK. Strání, Nová hora NR (100), 16.v.1998, 1 ♂ 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area. Usually associated with *Salix caprea* and *S. cinerea* in wet meadows and spring fens, in the vicinity of pools and ponds and in pioneer stands such as forest glades and abandoned quarries. **General distribution:** Palaearctic. **Host plants:** *Salix* spp. (*S. aurita*, *S. caprea*, *S. cinerea*, *S. elaeagnos*, *S. glauca*, *S. lapponum*, *S. myrsinifolia*, *S. phyllicifolia*, and *S. viminalis*). **Red List status:** –.

***Cacopsylla brunneipennis* (Edwards, 1896)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (74, 75).

Additional material examined. Valašské Klobouky, Brumovská street (3), 19.v.1999, 2 ♂♂ 10 ♀♀, IM. Valašské Klobouky, U Rybníků (4), 22.v.1999, 1 ♂ 2 ♀♀; 10.ix.1999, 5 ♂♂ 1 ♀; all IM. Valašské Klobouky, Javorůvky NR (5), 22.v.1999, 3 ♂♂ 19 ♀♀; 2.vii.1999, 1 ♂; 11.ix.1999, 4 ♂♂ 4 ♀♀; all IM. Valašské Klobouky, Dobšená NM (6), 22.v.1999, 2 ♂♂ 7 ♀♀; 2.vii.1999, 2 ♂♂; all IM. Valašské Klobouky, Brumovka brook valley (7), 19.v.1999, 5 ♀♀, IM; 30.vi.1999, 1 ♀, MH. Valašské Klobouky, Na Nivách (8), 9.ix.1999, 1 ♀, IM. Poteč, Ploščiny NR (10), 4.vii.1999, 2 ♀♀, IM; 13.ix.1999, 3 ♂♂ 1 ♀, IM; 17.viii.2006, 2 ♀♀, PK. Valašské Klobouky, Bílé potoky NR (11), 19.v.1999, 1 ♂ 6 ♀♀; 9.ix.1999, 5 ♀♀; 16.vi.2006, 2 ♀♀; 11.vii.2006, 4 ♀♀; all IM. Nedašov, Jalovcová stráž NR (15), 20.v.1999, 8 ♀♀; 3.vii.1999, 1 ♀; 5.x.2004, 1 ♂; 17.vi.2006, 1 ♀; 12.vii.2006, 1 ♀; all IM. Nedašov, Kaňúr hill and Hrušová dolina valley (17), 20.v.1999, 1 ♂ 2 ♀♀, IM. Bylnice, railway station environs (27), 21.v.1999, 2 ♀♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 21.v.1999, 2 ♂♂ 6 ♀♀, IM. Nedašov, Pod Cigánem NM (30), 28.v.2005, 3 ♂♂ 3 ♀♀, IM. Suchov, Kazivec brook valley (42), 15.v.1998, 6 ♀♀, IM. Horní Němčí, Drahy NR (43), 15.v.1998, several ♂♂ ♀♀, IM. Horní Němčí, Lesná hill (46), 15.v.1998, 1 ♂ 10 ♀♀, IM. Komňa, Lom Rasová NM (49), 5.vii.2001, 1 ♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (54), 16.v.1998,

2 ♂♂ 2 ♀♀; 10.vii.1998, 1 ♂ 3 ♀♀; all IM. Strání, Obecnice hill (55), 23.v.2002, 1 ♂ 1 ♀, IM & PK. Lopeník, U Zvonice NM (58), 25.ix.2004, 1 ♂ 6 ♀♀, IM. Lopeník, Lopenické sedlo (59), 21.v.2005, 2 ♀♀, IM. Starý Hrozenkov, Skalka quarry (63), 2.vii.2007, 3 ♀♀; 8.viii.2007, 13 ♀♀; all IM. Vyškovec, Vyškovecké Bošačky (65), 21.v.2005, 1 ♀, IM. Vyškovec, Pod Hřibovňou NM (66), 21.v.2005, 2 ♀♀, IM. Vyškovec, Ve Vlčí NR (67), 22.v.2005, 1 ♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (84), 14.v.1998, 1 ♂, IM; 19.vi.2000, 1 ♀, PK. Suchov, Suchovské Mlýny (85), 6.v.2000, 2 ♂♂ many ♀♀, IM. Javorník, loampit W of village (91), 24.v.2002, 1 ♀, IM. Javorník, Jazevčí NNR (92), 6.v.2000, 2 ♂♂ 23 ♀♀, IM. Nová Lhota, Vápenky, Porážky NNR (95), 15.vii.1998, 5 ♂♂ 1 ♀; 9.ix.1998, 1 ♂; 28.x.2011, 1 ♂; all IM. Javorník, Machová NR (97), 14.v.1998, many ♂♂ ♀♀; 8.v.2000, 3 ♂♂ 11 ♀♀; all IM. Strání, Záhumenice NM (99), 24.v.2001, 1 ♀, IM; 23.v.2002, 1 ♂ 2 ♀♀, PK. Strání, Nová hora NR (100), 16.v.1998, 1 ♂ 1 ♀, IM. Strání, Javorina NNR (102), 29.x.2011, 4 ♂♂ 4 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common on willows (mostly *Salix caprea* and *S. cinerea*) in various kinds of habitats throughout the area, from low to the highest elevations. **General distribution:** Eurosiberian. **Host plants:** *Salix* spp. (*S. aurita*, *S. caprea*, *S. cinerea*, *S. glauca*, *S. lanata*, *S. lapponum*, *S. myrsinifolia*, *S. pentandra*, *S. phyllicifolia*, *S. viminalis*, and *S. triandra* × *viminalis*). **Red List status:** –.

Cacopsylla crataegi (Schrank, 1801)

Published records. LAUTERER (1999): Bylnice, Bylničky (26); Radějov, village (70); Kněždub, Čertoryje NNR (74, 75); Javorník, SW slopes of Háj hill (89). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (74, 75).

Additional material examined. Valašské Klobouky, Bílé potoky NR (11), 30.vi.1999, 1 ♂, PK. Nedašov, Kaňúr hill and Hrušová dolina valley (17), 20.v.1999, 1 ♀, IM. Bylnice, Na Stráži (25), 11.vii.2006, 2 ♂♂ 3 ♀♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 21.v.1999, 1 ♀, IM. Hluk, Kobylí hlava NM (33), 24.viii.2002, 1 ♀, IM. Louka, Hloží NR (38), 24.iv.1999, 1 ♀, MH. Horní Němčí, village (39), 15.v.1998, 1 ♂, IM. Horní Němčí, Drahy NR (43), 15.v.1998, 1 ♀, IM; 30.vi.1998, 1 ♂ 2 ♀♀, IM & PK. Strání, Obecnice hill (55), 2.vii.2001, 2 ♂♂, IM & PK. Lopeník, Mikulčín vrch hill (60), 25.ix.2004, 1 ♂; 24.vii.2005, 1 ♂; both IM. Starý Hrozenkov, Skalka quarry (63), 2.vii.2007, 1 ♀, IM. Starý Hrozenkov, Hrozenkovské terasy (64), 2.vii.2007, 2 ♀♀, IM. Kněždub, Kněždubský háj forest (72), 28.vii.2000, 1 ♀, IM & PK. Radějov, Měsíční údolí valley (80), 8.ix.1998, 1 ♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (84), 14.v.1998, 3 ♂♂ 2 ♀♀; 13.vii.1998, 2 ♂♂ 7 ♀♀; 18.iv.2000, 8 ♂♂ 4 ♀♀; all IM; 19.vi.2000, 3 ♀♀, PK; 27.vii.2000, 1 ♂ 2 ♀♀, IM. Suchov, Suchovské Mlýny (85), 23.vi.2004, 2 ♂♂ 1 ♀, IM. Suchov, Trnovský Mlýn (86), 23.vi.2004, 2 ♂♂; 27.vii.2005, 1 ♀; all IM. Javorník, Nad Vápenkou NM (90), 9.vii.1998, 1 ♂ 1 ♀, IM. Javorník, Jazevčí NNR (92), 6.v.2000, 1 ♂ 2 ♀♀; 19.vi.2000, 2 ♀♀; all IM. Javorník, Petruchovy Mlýny (93), 24.v.2002, 1 ♀; 23.vi.2004, 1 ♀; 26.v.2005, 1 ♂; all IM. Strání, Záhumenice NM (99), 2.vii.2001, 1 ♂ 2 ♀♀, IM & PK. Strání, Javorina NNR (102), 29.x.2011, 1 ♂ 4 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common on solitary hawthorn shrubs scattered in grassland, along hedgerows and forest margins throughout the area. Overwintering specimens were found also at the highest elevations on the top of Mt Velká Javořina (ca. 950 m). **General distribution:** Palearctic. **Host plants:** *Crataegus* spp. **Red List status:** –.

Cacopsylla elegantula (Zetterstedt, 1840)

Material examined. Valašské Klobouky, U Rybníků (4), 10.ix.1999, 2 ♂♂ 2 ♀♀, IM. Valašské Klobouky, Javorůvky NR (5), 11.ix.1999, 1 ♂ 3 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Found only at two small adjacent sites in the north-eastern part of the area: on *Salix caprea* in a spring fen and as overwintering specimens on *Picea abies* at a forest margin: rare. **General distribution:** Palaearctic. **Host plants:** *Salix* spp. (*S. aurita*, *S. cinerea*, *S. caprea*, *S. myrsinifolia*, and *S. phylicifolia*). **Red List status:** –.

Comments. *Cacopsylla elegantula* is a psychrophilous species, absent from relatively warm areas of the Czech Republic (LAUTERER 1999).

Cacopsylla hippophaes (Foerster, 1848)

Published records. MALENOVSKÝ & LAUTERER (2005b): Velká nad Veličkou, village (83).

Additional material examined. Nedašov, village (14), 17.viii.2006, 1 ♂ 2 ♀♀, PK. Malá Vrbka, village (77), 19.vi.2000, 7 ♂♂ 6 ♀♀, IM & PK; 20.ix.2001, 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: An introduced species, restricted to ornamental vegetation and gardens in villages: rare (locally abundant). **General distribution:** Palaearctic. **Host plant:** *Hippophaë rhamnoides*. **Red List status:** –.

Cacopsylla mali (Schmidberger, 1836)

Published records. LAUTERER (1999): Luhačovice, Luhačovická dolina valley (18); Štítná nad Vláří (23); Bylnice, Bylničky (26); Boršice u Blatnice, Boršický potok brook valley (37); Horní Němčí, Hornoněmčanský háj forest (40); Komňa, Nový Dvůr (48); Strání, Důbrava hill (57); Radějov, village (70); Radějov, Holý vrch hill (71); Kněždub, Čertoryje NNR (74, 75); Radějov, Kútky NR (82); Velká nad Veličkou, towards Javorník (87); Javorník, SW slopes of Háj hill (89); Nová Lhota, Fojtické Mlýny (94). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (74, 75).

Additional material examined. Petrůvka, U Petrůvky NM (2), 6.viii.1999, 5 ♂♂ 8 ♀♀, PK. Valašské Klobouky, Brumovská street (3), 9.ix.1999, 1 ♂; 13.ix.1999, LT, 1 ♂; all IM. Valašské Klobouky, Brumovka brook valley (7), 19.v.1999, 3 ♂♂ 1 ♀, IM; 30.vi.1999, many ♂♂ ♀♀, MH; 9.ix.1999, many ♂♂ ♀♀, IM. Poteč, Ploštiny NR (10), 13.ix.1999, 1 ♂ 2 ♀♀, IM. Valašské Klobouky, Bílé potoky NR (11), 19.v.1999, 3 ♂♂ 4 ♀♀, IM; 9.ix.1999, many ♂♂ ♀♀, IM; 16.vi.2006, many ♂♂ ♀♀, IM; 11.vii.2006, many ♂♂ ♀♀, IM; 14.viii.2006, many ♂♂ ♀♀, PK. Nedašov, village (14), 3.vii.1999, 12 ♂♂ 13 ♀♀, IM; 17.viii.2006, 2 ♀♀, PK. Nedašov, Jalovcová stráň NR (15), 20.v.1999, 1 ♀; 3.vii.1999, 3 ♂♂ 1 ♀; 10.ix.1999, 5 ♂♂ 11 ♀♀; 12.vii.2006, 2 ♀♀; all IM. Nedašov, Kaňoury NM (16), 17.vi.2006, many ♂♂ ♀♀, IM; 12.vii.2006, 5 ♂♂ 3 ♀♀, IM; 16.viii.2006, 5 ♂♂ 8 ♀♀, PK. Brumov, Kloboucká street (24), 5.x.2004, 1 ♀; 28.v.2005, 4 ♂♂; all IM. Bylnice, Na Stráži (25), 16.vi.2006, many ♂♂ ♀♀, IM; 11.vii.2006, 1 ♂ 5 ♀♀, IM; 18.viii.2006, 2 ♀♀, PK. Bylnice, railway station environs (27), 21.v.1999, 1 ♂ 2 ♀♀, IM; 1.vii.1999, 2 ♂♂ 6 ♀♀, MH & PK; 11.ix.1999, 5 ♂♂ 5 ♀♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 21.v.1999, 4 ♂♂ 1 ♀, IM; 1.vii.1999, 1 ♂ 1 ♀, PK; 12.ix.1999, 4 ♂♂ 7 ♀♀, IM. Hluk, Kobylí hlava NM (33), 24.viii.2002, 17 ♂♂ 19 ♀♀, IM. Horní Němčí, village (39), 13.viii.2001, 1 ♂ 1 ♀, PK. Korytná, Březí (41), 5.vii.2001, many ♂♂ ♀♀, IM. Horní Němčí, Drahy NR (43), 30.vi.2001, 1 ♂, IM. Vápenice, Trstná brook valley (50), 6.vii.2001, 3 ♂♂ 2 ♀♀, IM & PK. Strání, Hrnčárky NM and Žabka reservoir surroundings (54), 10.vii.1998, 4 ♂♂ 5 ♀♀, IM. Strání, Obecnice hill (55), 2.vii.2001, 2 ♂♂ 3 ♀♀, IM. Lopeník, U Zvonice NM (58), 25.ix.2004, 3 ♂♂, IM. Starý Hrozenkov, Skalka quarry (63), 2.vii.2007, many ♂♂ ♀♀; 8.viii.2007, 3 ♂♂ 5 ♀♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (64), 2.vii.2007, many ♂♂ ♀♀; 8.viii.2007, 5 ♂♂ 8 ♀♀; 22.ix.2007, 2 ♂♂ 4 ♀♀; all IM. Vyškovec, Vyškovecké Bošačky (65), 21.v.2005, 1 ♂ 3 ♀♀, IM. Vyškovec, Pod Hřibovňou NM (66), 21.v.2005, 1 ♀, IM. Kněždub, Kněždubský háj forest (72), 17.vi.2000, 1 ♂ 3 ♀♀, IM. Radějov, Lučina

(73), 14.vii.1998, many ♂♂ ♀♀; 20.ix.2001, 1 ♂; all IM. Kněždub, Čertoryje NNR (74, 75), 22.v.2000, 1 ♀, PK. Kněždub, Čertoryje NNR, Radějovka brook valley (75), 12.viii.2008, 1 ♀, KD & KF. Malá Vrbka, Výzkum hill (76), 18.vi.2000, 1 ♂, IM & PK. Malá Vrbka, village (77), 28.vii.2001, 1 ♂ 5 ♀♀, IM. Radějov, Veselka hill (81), 11.vii.1998, 1 ♂, IM. Radějov, Kútky NR (82), 11.vii.1998, 1 ♂, IM. Velká nad Veličkou, village (83), 19.vi.2000, 4 ♂♂ 10 ♀♀, PK; 29.vi.2001, 3 ♂♂ 1 ♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (84), 14.v.1998, 1 ♂; 13.vii.1998, many ♂♂ ♀♀; all IM; 19.vi.2000, many ♂♂ ♀♀, PK. Suchov, Suchovské Mlýny (85), 29.vi.2001, 5 ♂♂ 6 ♀♀; 1.x.2004, 1 ♂; all IM. Javorník, Jazevčí NNR (92), 19.vi.2000, many ♂♂ ♀♀, IM; 18.viii.2000, many ♂♂ ♀♀, PK; 10.ix.2000, 4 ♀♀, IM. Nová Lhota, Vápenky, Porážky NNR (95), 9.ix.1998, 1 ♂, IM. Javorník, Machová NR (97), 14.v.1998, 1 ♂; 9.vii.1998, 2 ♂♂; 8.v.2000, 4 ♂♂ 7 ♀♀; all IM. Strání, Záhumenice NM (99), 2.vii.2001, many ♂♂ ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area in orchards, on solitary apple trees in villages, meadows and pastures, and at forest margins, often dispersed more or less far from the hosts. **General distribution:** Palaearctic, introduced to North America, Australia and South Africa. **Host plants:** *Malus* spp. **Red List status:** –.

Comments. *Cacopsylla mali* is an occasional pest on cultivated apples, particularly in the organic and old deserted orchards (BLATTNÝ *et al.* 1943; LAUTERER 1999; LUDVÍKOVÁ *et al.* 2010, 2011).

Cacopsylla melanoneura (Foerster, 1848)

Published records. LAUTERER (1999): Kněždub, Čertoryje NNR (74, 75); Radějov, Kútky NR (82); Velká nad Veličkou, towards Javorník (87); Javorník, SW slopes of Háj hill (89); Javorník, Výzkum hill (98). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (74, 75).

Additional material examined. Valašské Klobouky, Brumovská street (3), 19.v.1999, 2 ♂♂ 4 ♀♀, IM. Valašské Klobouky, U Rybníků (4), 10.ix.1999, 2 ♂♂ 5 ♀♀, IM. Valašské Klobouky, Javorůvky NR (5), 22.v.1999, 2 ♂♂ 1 ♀; 2.vii.1999, 1 ♂ 1 ♀; 11.ix.1999, 5 ♂♂ 3 ♀♀; all IM. Valašské Klobouky, Dobšená NM (6), 2.vii.1999, 3 ♂♂ 2 ♀♀; 10.ix.1999, 3 ♂♂; all IM. Valašské Klobouky, Brumovka brook valley (7), 19.v.1999, 7 ♂♂ 2 ♀♀, IM; 30.vi.1999, 1 ♂, MH. Valašské Klobouky, Na Nivách (8), 9.ix.1999, many ♂♂ ♀♀, IM. Poteč, Ploštiny NR (10), 4.vii.1999, 2 ♀♀; 13.ix.1999, 3 ♂♂ 4 ♀♀; 1.vi.2002, 1 ♂; all IM. Valašské Klobouky, Bílé potoky NR (11), 9.ix.1999, 1 ♂ 1 ♀; 16.vi.2006, 1 ♂ 1 ♀, IM; 11.vii.2006, 4 ♂♂ 2 ♀♀; all IM. Brumov, Uhličky (13), 28.v.2005, 1 ♀, IM. Nedašov, Jalovcová stráž NR (15), 20.v.1999, 1 ♂ 1 ♀, IM; 16.viii.2006, 1 ♂, PK. Nedašov, Kaňoury NM (16), 17.vi.2006, 8 ♂♂ 10 ♀♀, IM. Nedašov, Kaňúr hill and Hrušová dolina valley (17), 20.v.1999, 1 ♀, IM. Bylnice, Na Stráži (25), 16.vi.2006, 6 ♂♂, IM. Svatý Štěpán, Nadřičí (31), 21.v.1999, 1 ♂, IM. Blatnička, Milejovské louky meadows (35), 24.v.2009, 1 ♂ 1 ♀, PB. Horní Němčí, Drahy NR (43), 15.v.1998, several ♂♂ ♀♀, IM; 30.vi.2001, 1 ♂, IM & PK; 23.v.2002, 38 ♂♂ 6 ♀♀, IM & PK. Horní Němčí, Vinohrádky (44), 23.v.2002, 1 ♂ 2 ♀♀, IM. Strání, Obecnice hill (55), 2.vii.2001, 1 ♀; 23.v.2002, 14 ♂♂ 18 ♀♀; all IM & PK. Lopeník, U Zvonice NM (58), 25.ix.2004, 1 ♂, IM. Lopeník, Lopenické sedlo (59), 27.vi.2004, 1 ♀; 25.ix.2004, 1 ♀; both IM. Lopeník, Mikulčín vrch hill (60), 25.ix.2004, 5 ♂♂ 3 ♀♀, IM. Vyškovec, Pod Hřibovňou NM (66), 21.v.2005, 2 ♀♀, IM. Vyškovec, Ve Vlči NR (67), 22.v.2005, 1 ♂, IM. Radějov, Lučina (73), 13.v.1998, several ♂♂ ♀♀, IM. Kněždub, Čertoryje NNR (74, 75), 22.v.2000, 1 ♂ 3 ♀♀, PK. Malá Vrbka, Výzkum hill (76), 25.v.2000, 1 ♂ 3 ♀♀; 17.iv.2000, 1 ♂; all IM. Radějov, Měsíční údolí valley (80), 8.ix.1998, 3 ♂♂ 5 ♀♀, IM. Velká nad Veličkou, village (83), 28.iv.2000, many ♂♂ ♀♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (84), 14.v.1998, many ♂♂ ♀♀; 18.iv.2000, many ♂♂ ♀♀; 27.vii.2000, 1 ♂; all IM. Suchov, Suchovské Mlýny (85), 23.vi.2004, 1 ♂, IM. Javorník, loampit W of village (91), 24.v.2002, 6 ♂♂ 9 ♀♀, IM. Javorník, Jazevčí NNR (92), 6.v.2000, many ♂♂ ♀♀, IM. Javorník, Petruchovy Mlýny (93), 24.v.2002, 3 ♂♂ 1 ♀; 26.v.2005, 1 ♂; all IM. Nová Lhota, Vápenky, Porážky NNR (95), 15.vii.1998, 1 ♂ 1 ♀; 28.x.2011, 2 ♀♀; all IM. Javorník, Machová NR (97), 9.vii.1998, many ♂♂ ♀♀; 9.vii.1998, 1 ♀; 8.v.2000, 4 ♂♂ 9 ♀♀; all IM. Strání, Záhumenice NM (99), 24.v.2001, 1 ♂ 1 ♀; 20.vii.2002, 1 ♂; all IM. Strání, Javorina NNR (102), 29.x.2011, 17 ♂♂ 10 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common on hawthorns in various kinds of habitats throughout the area. **General distribution:** Palaearctic. **Host plants:** *Crataegus* spp. and *Malus* spp. **Red List status:** –.

Comments. *Cacopsylla melanoneura* is a potential vector of the apple proliferation phytoplasma on apple trees (TEDESCHI *et al.* 2002). However, it seems to have a minor economic importance in central Europe (JARAUSCH *et al.* 2009; MAYER *et al.* 2009; LUDVÍKOVÁ *et al.* 2010, 2011).

Cacopsylla moscovita (Andrianova, 1948)

Published records. LAUTERER (1999): Kněždub, Čertoryje NNR (74, 75).

Distribution and frequency in the Bílé Karpaty PLA: Known from a single female specimen collected in 1980 in the south-western part of the area. More material is needed to confirm the presence of *C. moscovita* in the Bílé Karpaty. **General distribution:** Palaearctic. **Host plants:** *Salix* spp. (*S. caprea*, *S. cinerea*, *S. aurita*, *S. lapponum*, and *S. repens*). **Red List status:** –.

Cacopsylla peregrina (Foerster, 1848)

Published records. LAUTERER (1999): Rokytnice, Bukovina hill (21); Bylnice, Bylničky (26); Boršice u Blatnice, Boršický potok brook valley (37); Horní Němčí, Hornoněmčanský háj forest (40); Bánov, Skalky hill (47); Komňa, Nový Dvůr (48); Radějov, village (70); Radějov, Holý vrch hill (71); Kněždub, Čertoryje NNR (74, 75); Radějov, Kůtky NR (82); Velká nad Veličkou, towards Javorník (87); Javorník, SW slopes of Háj hill (89); Nová Lhota, Fojtické Mlýny (94); Javorník, Výzkum hill (98). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (74, 75).

Additional material examined. Valašské Klobouky, Brumovská street (3), 9.ix.1999, 10 ♀♀, IM. Valašské Klobouky, U Rybníků (4), 10.ix.1999, 1 ♂ 2 ♀♀, IM. Valašské Klobouky, Javorůvky NR (5), 2.vii.1999, 3 ♂♂ 1 ♀; 11.ix.1999, 1 ♂ 1 ♀; all IM. Valašské Klobouky, Dobšená NM (6), 10.ix.1999, 4 ♂♂, IM. Valašské Klobouky, Brumovka brook valley (7), 30.vi.1999, 1 ♀, MH; 9.ix.1999, 4 ♀♀, IM. Valašské Klobouky, Na Nivách (8), 9.ix.1999, 5 ♂♂ 3 ♀♀, IM. Poteč, Ploštiny NR (10), 4.vii.1999, 16 ♂♂ 14 ♀♀, IM; 13.ix.1999, 3 ♂♂ 3 ♀♀, IM; 1.vi.2002, 8 ♂♂ 7 ♀♀, IM; 17.viii.2006, 1 ♂ 7 ♀♀, PK. Valašské Klobouky, Bílé potoky NR (11), 30.vi.1999, 6 ♂♂ 11 ♀♀, PK; 9.ix.1999, 1 ♀, IM; 11.vii.2006, 1 ♀, IM. Nedašov, Jalovcová stráž NR (15), 16.viii.2006, 1 ♂, PK. Nedašov, Kaňoury NM (16), 17.vi.2006, 16 ♂♂ 9 ♀♀, IM; 16.viii.2006, 22 ♂♂ 23 ♀♀, PK. Bylnice, Na Stráži (25), 16.vi.2006, many ♂♂ ♀♀, IM; 11.vii.2006, 2 ♂♂ 4 ♀♀, IM; 18.viii.2006, 1 ♂, PK. Bylnice, railway station environs (27), 11.ix.1999, 1 ♀, IM. Svatý Štěpán, Nadřičí (31), 21.v.1999, 1 ♂, IM. Hluk, Kobyly hlava NM (33), 24.viii.2002, 5 ♂♂ 2 ♀♀, IM. Hluk, Babí hora NM (34), 24.viii.2002, many ♂♂ ♀♀, IM. Blatnička, Milejovské louky meadows (35), 24.v.2009, 1 ♂, PB. Horní Němčí, village (39), 15.v.1998, 2 ♂♂, IM. Korytná, Březí (41), 5.vii.2001, many ♂♂ ♀♀, IM. Horní Němčí, Drahy NR (43), 15.v.1998, several ♂♂ ♀♀, IM; 10.ix.1998, many ♂♂ ♀♀; 30.vi.2001, 15 ♀♀; all IM; 21.ix.2001, 2 ♂♂ 6 ♀♀, PK; 23.v.2002, 8 ♂♂ 10 ♀♀, IM & PK. Horní Němčí, Vinohrádky (44), 21.ix.2001, 1 ♂, IM. Korytná, Lubná pond environs (52), 5.vii.2001, 1 ♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (54), 10.vii.1998, 1 ♂; 10.ix.1998, many ♂♂ ♀♀; all IM. Strání, Obecnice hill (55), 24.v.2001, 1 ♀, IM; 2.vii.2001, 1 ♂, IM; 23.v.2002, 70 ♂♂ 69 ♀♀, IM & PK. Lopeník, Lopenické sedlo (59), 27.vi.2004, 1 ♂; 25.ix.2004, 1 ♀; 24.vii.2005, 1 ♀; all IM. Lopeník, Mikulčín vrch hill (60), 24.vii.2005, 2 ♂♂ 1 ♀, IM. Starý Hrozenkov, Skalka quarry (63), 2.vii.2007, 3 ♂♂ 2 ♀♀; 8.viii.2007, 5 ♀♀; 22.ix.2007, 2 ♂♂ 2 ♀♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (64), 2.vii.2007, 2 ♀♀; 22.ix.2007, 1 ♀; all IM. Radějov, Žerotín NM (68), 11.vii.1998, many ♂♂ ♀♀, IM. Radějov, Holý vrch hill (71), 8.ix.1998, 1 ♀, IM. Kněždub, Kněždubský háj forest (72), 17.vi.2000, 5 ♀♀, IM; 28.vii.2000, 3 ♀♀, IM & PK. Radějov, Lučina (73), 13.v.1998, many ♂♂

♀♀; 14.vii.1998, 3 ♀♀; all IM. Kněždub, Čertoryje NNR (74, 75), 22.v.2000, 1 ♂ 4 ♀♀, PK. Kněždub, Čertoryje NNR, Járkovec brook valley (74), 22.vi.2008, 1 ♂ 1 ♀; 12.viii.2008, 13 ♂♂ 26 ♀♀; all KD & KF, 7.vi.2010, 1 ♀, IM. Malá Vrbka, Výzkum hill (76), 25.v.2000, 1 ♂, IM; 18.vi.2000, 4 ♂♂ 18 ♀♀, IM & PK; 16.viii.2000, 1 ♀, PK. Radějov, Měsíční údolí valley (80), 8.ix.1998, many ♂♂ ♀♀, IM; 20.viii.2002, 1 ♀, PK. Radějov, Veselka hill (81), 11.vii.1998, 1 ♀, IM. Radějov, Kútky NR (82), 11.vii.1998, 3 ♂♂ 3 ♀♀; 8.ix.1998, many ♂♂ ♀♀; all IM. Velká nad Veličkou, Zahrady pod Hájem NNR (84), 14.v.1998, many ♂♂ ♀♀; 13.vii.1998, many ♂♂ ♀♀; all IM; 19.vi.2000, many ♂♂ ♀♀, PK; 27.vii.2000, many ♂♂ ♀♀, IM; 18.viii.2000, 1 ♂ 2 ♀♀, PK; 9.–10.ix.2000, 8 ♂♂ ♀♀; IM. Suchov, Suchovské Mlýny (85), 23.vi.2004, 1 ♂; 1.ix.2004, 1 ♀; both IM. Suchov, Trnovský Mlýn (86), 23.vi.2004, 1 ♂; 1.ix.2005, 1 ♀; both IM. Javorník, Nad Vápenkou NM (90), 9.vii.1998, 2 ♀♀, IM. Javorník, loampit W of village (91), 7.ix.1998, many ♂♂ ♀♀; 24.v.2002, 2 ♂♂ 6 ♀♀; all IM. Javorník, Jazevčí NNR (92), 15.vii.1998, 1 ♂ 1 ♀, IM; 19.vi.2000, many ♂♂ ♀♀, IM; 18.viii.2000, 2 ♂♂ 2 ♀♀, PK; 10.ix.2000, many ♂♂ ♀♀, IM; 29.vi.2001, 4 ♂♂ 4 ♀♀, IM. Javorník, Petruchovy Mlýny (93), 24.v.2002, 1 ♂ 1 ♀, IM & PK; 26.v.2005, 2 ♂♂ 6 ♀♀; 27.vii.2005, 2 ♂♂; 1.ix.2005, 1 ♀; all IM. Nová Lhota, Vápenky, Porážky NNR (95), 15.vii.1998, many ♂♂ ♀♀; 9.ix.1998, many ♂♂ ♀♀; 28.x.2011, 1 ♂ 2 ♀♀; all IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javorina (96), 12.vii.1998, many ♂♂ ♀♀, IM. Javorník, Machová NR (97), 14.v.1998, many ♂♂ ♀♀; 9.vii.1998, many ♂♂ ♀♀; all IM. Strání, Záhumence NM (99), 2.vii.2001, many ♂♂ ♀♀, IM & PK; 21.ix.2001, 2 ♂♂ 1 ♀, IM, 23.v.2002, 2 ♂♂ 2 ♀♀, PK; 20.vii.2002, 1 ♀, IM; 12.ix.2002, 2 ♀♀, IM. Strání, Javorina NNR (102), 4.vii.2001, 2 ♂♂ 10 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common on hawthorns in various kinds of habitats throughout the area. Often dispersed more or less far from the hosts. **General distribution:** Palaearctic, introduced into North America. **Host plants:** *Crataegus* spp. **Red List status:** –.

Cacopsylla picta (Foerster, 1848)

= *Cacopsylla costalis* (Flor, 1861)

Material examined. Valašské Klobouky, Brumovka brook valley (7), 19.v.1999, 2 ♂♂, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 21.v.1999, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Recorded only for the north-eastern part of the area; on neglected apple trees around isolated cottages and haylofts, rare. **General distribution:** European. **Host plants:** *Malus* spp. **Red List status:** –.

Comments. *Cacopsylla picta* is the main vector of the *Candidatus* Phytoplasma mali, the causal agent of the apple proliferation disease, in central Europe, including the Czech Republic (JARAUSCH *et al.* 2009; LUDVÍKOVÁ *et al.* 2010, 2011).

Cacopsylla pruni (Scopoli, 1763)

Published records. LAUTERER (1999): Radějov, Kútky NR (82). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (74, 75).

Additional material examined. Valašské Klobouky, Brumovská street (3), 19.v.1999, 3 ♂♂ 3 ♀♀, IM. Valašské Klobouky, Javorůvky NR (5), 11.ix.1999, 1 ♂, IM. Valašské Klobouky, Dobšená NM (6), 22.v.1999, 1 ♂; 2.vii.1999, 1 ♂; 10.ix.1999, 1 ♂ 2 ♀♀; all IM. Valašské Klobouky, Na Nivách (8), 9.ix.1999, 3 ♂♂ 1 ♀, IM. Poteč, Ploščiny NR (10), 13.ix.1999, 1 ♂; 1.vi.2002, 3 ♂♂ 3 ♀♀; all IM. Valašské Klobouky, Bílé potoky NR (11), 9.ix.1999, 3 ♂♂ 1 ♀; 16.vi.2006, 1 ♂ 3 ♀♀; 11.vii.2006, 1 ♂; all IM. Nedašov, Jalovcová stráž NR (15), 20.v.1999, 1 ♀, IM; 16.viii.2006, 1 ♂, PK. Nedašov, Kaňúr hill and Hrušová dolina valley (17), 20.v.1999, 1 ♀, IM. Bylnice, Na Stráži (25), 16.vi.2006, 2 ♂♂ 5 ♀♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 21.v.1999, 1 ♀, IM. Louka, Hloží NR (38), 24.iv.1999, 1 ♀, MH. Horní Němčí,

Jumping plant-lice (Hemiptera: Psylloidea)

Drahy NR (43), 15.v.1998, several ♂♂ ♀♀; 30.vi.2001, 1 ♀; 23.v.2002, 1 ♀; all IM. Lopeník, U Zvonice NM (58), 25.ix.2004, 1 ♂, IM. Lopeník, Mikulčín vrch hill (60), 25.ix.2004, 1 ♂, IM. Žitková, Hutě NR (61), 11.iv.–9.v.2007, 3 ♂♂, MT, PC, JJ & JM. Starý Hrozenkov, Hrozenkovské terasy (64), 2.vii.2007, 1 ♀, IM. Vyškovec, Vyškovské Bošačky (65), 27.vi.2004, 1 ♂, IM. Radějov, Žerotín NM (68), 11.viii.1998, 1 ♂, IM. Kněždub, Kněždubský háj forest (72), 17.vi.2000, 1 ♀, IM; 22.vi.2001, 1 ♂, IM & PK. Malá Vrbka, Výzkum hill (76), 18.vi.2000, 3 ♀♀, IM & PK. Velká nad Veličkou, Zahrady pod Hájem NNR (84), 14.v.1998, 1 ♀; 13.vii.1998, 1 ♀; 18.iv.2000, 3 ♂♂ 2 ♀♀; all IM; 19.vi.2000, 1 ♂, PK. Suchov, Suchovské Mlýny (85), 29.vi.2001, 1 ♀; 23.vi.2004, 1 ♂; both IM. Javorník, Nad Vápenkou NM (90), 6.v.2000, 1 ♀, IM. Strání, Záhumenice NM (99), 8.vi.2001, 3 ♀♀, PL; 2.vii.2001, 1 ♂, IM. Strání, Nová hora NR (100), 16.v.1998, 1 ♀, IM. Strání, Javorina NNR (102), 4.vii.2001, 1 ♀; 29.x.2011, 1 ♂ 4 ♀♀; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common on *Prunus spinosa* in scrub and along forest margins throughout the area, including the highest elevations. **General distribution:** Eurosiberian. **Host plants:** *Prunus* spp. **Red List status:** –.

Comments. *Cacopsylla pruni* is a major vector of the *Candidatus* Phytoplasma prunorum, the causal agent of the European stone fruit yellow disease that causes significant economic loss, particularly on apricots and peaches in central Europe (NAVRÁTIL *et al.* 2004, JARAUSCH *et al.* 2009).

Cacopsylla pulchra (Zetterstedt, 1838)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Radějovka brook valley (75).

Additional material examined. Valašské Klobouky, Bílé potoky NR (11), 9.ix.1999, ?1 ♀, IM. Radějov, Lučina (73), 13.v.1998, several ♂♂ ♀♀, IM. Velká nad Veličkou, village (83), 28.iv.2000, 2 ♂♂, IM. Strání, Javorina NNR (102), 29.x.2011, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread throughout the area but quite rare; collected at forest margins and in the vicinity of brooks, ponds and spring fens; overwintering specimens were found on ornamental conifers in a village as well as at the highest point of the Bílé Karpaty Mts., Mt Velká Javořina. **General distribution:** Palearctic. **Host plants:** *Salix* spp. (*S. alba*, *S. caprea*, *S. cinerea*, *S. myrsinifolia*, *S. pentandra*, *S. purpurea*, *S. repens*, *S. viminalis*, and *S. triandra* × *viminalis*). **Red List status:** –.

Cacopsylla pyri (Linnaeus, 1758)

Published records. BAUDYŠ (1966a): Valašské Klobouky (3; precise location of collecting site unknown). LAUTERER (1999): Bylnice, Bylničky (26); Radějov, village (70); Radějov, Kútky NR (82); Velká nad Veličkou, towards Javorník (87); Javorník, SW slopes of Háj hill (89); Javorník, Výzkum hill (98).

Additional material examined. Blatnička, Milejovské louky meadows (35), 24.v.2009, 3 ♀♀; 11.vii.2009, 1 ♂ 1 ♀; all PB. Horní Němčí, Drahy NR (43), 15.v.1998, several ♂♂ ♀♀, IM. Radějov, Veselka hill (81), 11.vii.1998, 1 ♂, IM. Velká nad Veličkou, village (83), 29.vi.2001, 1 ♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (84), 14.v.1998, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread throughout the area, but quite common only at warm sites in its south-western part; on pear trees in orchards, villages, along roads etc. **General distribution:** Europe and Turkey. **Host plants:** *Pyrus* spp. **Red List status:** –.

Comments. In the Czech Republic, *Cacopsylla pyri* is a serious pest in pear plantations (LAUTERER 1999, KOCOUREK & STARÁ 2007, LUDVÍKOVÁ *et al.* 2010) and a potential vector of the *Candidatus* Phytoplasma pyri, the causal agent of the pear decline disease (LUDVÍKOVÁ *et al.* 2011).

Cacopsylla pyricola (Foerster, 1848)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (74, 75).

Additional material examined. Valašské Klobouky, Dobšená NM (6), 2.vii.1999, 1 ♀, IM. Valašské Klobouky, Bílé potoky NR (11), 9.ix.1999, 1 ♀, IM; 11.vii.2006, 8 ♂♂ 14 ♀♀, IM; 14.viii.2006, 2 ♂♂ 5 ♀♀, PK. Nedašov, Jalovcová stráž NR (15), 12.vii.2006, 1 ♀, IM. Nedašov, Kaňoury NM (16), 3.vii.1999, 1 ♀, IM; 17.vi.2006, 1 ♂ 2 ♀♀, IM; 12.vii.2006, 1 ♂ 1 ♀, IM; 16.viii.2006, 2 ♂♂ 1 ♀, PK. Bylnice, Na Stráži (25), 16.vi.2006, 3 ♂♂ 7 ♀♀; 11.vii.2006, 2 ♀♀; all IM. Korytná, Březí (41), 5.vii.2001, 1 ♀, IM. Radějov, Žerotín NM (68), 19.iv.2012, 1 ♂, IM. Velká nad Veličkou, village (83), 29.vi.2001, 3 ♂♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (84), 13.vii.1998, 6 ♂♂ 8 ♀♀; 18.iv.2000, 1 ♀; all IM. Javorník, Jazevčí NNR (92), 15.vii.1998, 1 ♂; 19.vi.2000, 2 ♂♂ 3 ♀♀; all IM. Javorník, Machová NR (97), 9.vii.1998, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common throughout the area in scrub and along sunny forest margins, as well as in orchards and villages. **General distribution:** European, introduced into North America. **Host plants:** *Pyrus communis* and *P. pyraster*. **Red List status:** –.

Comments. *Cacopsylla pyricola* is a potential vector of the *Candidatus* Phytoplasma pyri, the causal agent of the pear decline disease (LUDVÍKOVÁ *et al.* 2011). However, it has only a minor economic importance in the Czech Republic (LAUTERER 1999, KOCOUREK & STARÁ 2007).

Cacopsylla pyrisuga (Foerster, 1848)

Published records. LAUTERER (1999): Bylnice, Bylničky (26); Velká nad Veličkou, towards Javorník (87); Javorník, Výzkum hill (98). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (74, 75).

Additional material examined. Valašské Klobouky, Javorůvky NR (5), 11.ix.1999, 2 ♂♂, IM. Valašské Klobouky, Na Nivách (8), 9.ix.1999, 1 ♂, IM. Nedašov, Jalovcová stráž NR (15), 20.v.1999, 1 ♂ 1 ♀, IM. Nedašov, Kaňúr hill and Hrušová dolina valley (17), 20.v.1999, 1 ♀, IM. Horní Němčí, Drahy NR (43), 10.ix.1998, 1 ♂, IM. Lopeník, U Zvonice NM (58), 25.ix.2004, 1 ♀, IM. Lopeník, Mikulčín vrch hill (60), 25.ix.2004, 1 ♂, IM. Vyškovec, Vyškovecké Bošačky (65), 21.v.2005, 1 ♀, IM. Radějov, Holý vrch hill (71), 8.ix.1998, 1 ♂, IM. Malá Vrbka, Výzkum hill (76), 22.vi.2001, 2 ♀♀, IM & PK. Velká nad Veličkou, Zahrady pod Hájem NNR (84), 14.v.1998, 2 ♀♀; 18.iv.2000, 8 ♂♂ 4 ♀♀; all IM. Javorník, Machová NR (97), 14.v.1998, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common on pear trees in various kinds of habitats throughout the area. **General distribution:** Europe, Turkey, and Caucasus. **Host plants:** *Pyrus* spp. **Red List status:** –.

Comments. In the Czech Republic, *C. pyrisuga* is an occasional pest of cultivated pears (LAUTERER 1999, NAVRÁTIL & STARÁ 2007, LUDVÍKOVÁ *et al.* 2010) and a potential vector of the *Candidatus* Phytoplasma pyri, the causal agent of the pear decline disease (LUDVÍKOVÁ *et al.* 2011).

***Cacopsylla rhamnicola* (Scott, 1876)**

Material examined. Valašské Klobouky, U Rybníků (4), 10.ix.1999, 1 ♂, IM. Poteč, Ploščiny NR (10), 1.vi.2002, 1 ♂, IM. Bylnice, Na Stráži (25), 16.vi.2006, many ♂♂ ♀♀, IM. Horní Němčí, Drahy NR (43), 23.v.2002, 9 ♂♂ 6 ♀♀ 11 larvae, IM. Lopeník, Mikulčín vrch hill (60), 25.ix.2004, 1 ♀, IM. Suchov, Trnovský Mlýn (86), 23.vi.2004, 1 ♂, IM. Javorník, loampit W of village (91), 24.v.2002, 6 ♂♂ 4 ♀♀, IM. Nová Lhota, Vápenky, Porážky NNR (95), 28.x.2011, 1 ♀, IM. Strání, Javorina NNR (102), 29.x.2011, 6 ♂♂ 7 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common in scrub and along forest margins throughout the area; overwintering specimens were found also at the highest point, the top of Mt Velká Javořina (ca. 950 m). **General distribution:** Eurosiberian. **Host plant:** *Rhamnus cathartica*. **Red List status:** –.

***Cacopsylla saliceti* (Foerster, 1848)**

Material examined. Lopeník, U Zvonice NM (58), 25.ix.2004, 1 ♂ 1 ♀, IM. Lopeník, Lopenické sedlo (59), 25.ix.2004, 3 ♂♂ 2 ♀♀, IM. Radějov, Lučina (73), 22.vi.2001, 10 ♂♂ 4 ♀♀, IM & PK. Suchov, Suchovské Mlýny (85), 29.vi.2001, 1 ♂ 2 ♀♀, IM. Javorník, village (88), 24.v.2002, 1 ♂, IM. Strání, Záhumenice NM (99), 8.vi.2001, 5 ♂♂ 2 ♀♀, PL. Strání, Javorina NNR (102), 29.x.2011, 2 ♂♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Collected in the central and south-western parts of the area on willows in various habitats (banks of streams, shores of a pond, along roads) but quite uncommon. Overwintering specimens were found also at the highest point, the top of Mt Velká Javořina (ca. 950 m). **General distribution:** Palearctic. **Host plants:** *Salix* spp. (*S. alba*, *S. aurita*, *S. caprea*, *S. cinerea*, *S. elaeagnos*, *S. fragrans*, *S. fragilis*, and *S. purpurea*). **Red List status:** –.

***Cacopsylla sorbi* (Linnaeus, 1758)**

Material examined. Valašské Klobouky, Dobšená NM (6), 2.vii.1999, 2 ♂♂ 3 ♀♀, IM. Poteč, Ploščiny NR (10), 4.vii.1999, 1 ♂; 1.vi.2002, 8 ♂♂ 4 ♀♀; all IM. Bylnice, Na Stráži (25), 16.vi.2006, 2 ♂♂ 1 ♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (54), 10.vii.1998, 9 ♂♂ 2 ♀♀, IM. Lopeník, Mikulčín vrch hill (60), 24.vii.2005, 1 ♂ 6 ♀♀, IM. Kněždub, Kněždubský háj forest (72), 28.vii.2000, 1 ♂, IM & PK. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (96), 12.vii.1998, 3 ♂♂ 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread but quite uncommon; mostly along forest margins and forest roads, and in forest glades. **General distribution:** Palearctic, introduced into North America. **Host plant:** *Sorbus aucuparia*. **Red List status:** –.

***Cacopsylla ulmi* (Foerster, 1848)**

Published records. LAUTERER (1999): Boršice u Blatnice, Boršický potok brook valley (37); Horní Němčí, Hornoněmčanský háj forest (40); Kněždub, Čertoryje NNR (74, 75). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (74).

Additional material examined. Valašské Klobouky, Brumovská street (3), 9.ix.1999, 1 ♀, IM. Poteč, Ploščiny NR (10), 17.viii.2006, 2 ♂♂ 3 ♀♀, PK. Nedašov, village (14), 17.viii.2006, 1 ♀, PK. Nedašov, Jalovcová stráž NR (15), 16.viii.2006, 1 ♀, PK. Svatý Štěpán, Nadřičí (31), 21.v.1999, many ♂♂ ♀♀, IM. Horní Němčí, Drahy NR (43), 23.v.2002, 2 ♂♂ 1 ♀, IM. Horní Němčí, Horní kopec hill (45), 23.v.2002, 3 ♂♂ 1 ♀, IM. Lopeník,

U Zvonice NM (58), 25.ix.2004, 4 ♂♂ 1 ♀, IM. Lopeník, Lopenické sedlo (59), 25.ix.2004, 2 ♂♂, 24.vii.2005, 2 ♀♀; all IM. Lopeník, Mikulčín vrch hill (60), 24.vii.2005, 1 ♂ 1 ♀; 25.ix.2004, 4 ♂♂ 4 ♀♀; all IM. Radějov, Žerotín NM (68), 11.vii.1998, 1 ♂ 1 ♀, IM. Radějov, Holý vrch hill (71), 8.ix.1998, 2 ♂♂ 2 ♀♀, IM. Radějov, Lučina (73), 14.vii.1998, 1 ♀; 17.vi.2000, 3 ♀♀; 28.vii.2000, 1 ♂ 4 ♀♀; 22.vi.2001, 3 ♀♀; all IM & PK. Malá Vrbka, Výzkum hill (76), 18.vi.2000, 3 ♂♂, IM & PK. Hrubá Vrbka, football ground (78), 20.ix.2001, 1 ♀, IM. Radějov, Měsíční údolí valley (80), 20.viii.2002, 1 ♀, PK. Radějov, Veselka hill (81), 11.vii.1998, 9 ♀♀, IM. Velká nad Veličkou, village (83), 18.viii.2000, 1 ♂ 1 ♀, PK. Velká nad Veličkou, Zahrady pod Hájem NNR (84), 27.vii.2000, 3 ♀♀; 9.–10.ix.2000, 1 ♂ 2 ♀♀; all IM. Suchov, Trnovský Mlýn (86), 16.viii.2004, 1 ♂, PK; 1.x.2004, 4 ♂♂ 1 ♀, IM. Javorník, village (88), 8.viii.2001, 1 ♂ 2 ♀♀, PK. Javorník, Jazevčí NNR (92), 15.vii.1998, 1 ♀, IM. Javorník, Petruchovy Mlýny (93), 24.v.2002, 1 ♀, PK. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (96), 12.vii.1998, many ♂♂ ♀♀, IM. Strání, Javorina NNR (102), 4.vii.2001, 9 ♂♂ 16 ♀♀; 29.x.2011, 7 ♂♂ 2 ♀♀; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in various kinds of habitats throughout the area, from low to the highest elevations; associated with elm trees but often dispersed more or less far from the hosts. **General distribution:** Palaearctic. **Host plants:** *Ulmus* spp. **Red List status:** –.

Cacopsylla viburni (Löw, 1876)

(VU)

(Fig. 5)

Published records. LAUTERER (1999): Horní Němčí, Hornoněmčanský háj forest (40); Kněždub, Čertoryje NNR (74, 75); Velká nad Veličkou, towards Javorník (87). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (74).

Additional material examined. Horní Němčí, Drahy NR (43), 15.v.1998, 1 ♂; 23.v.2002, 1 ♀; both IM. Horní Němčí, Lesná hill (46), 15.v.1998, 5 ♂♂ 3 ♀♀, IM. Radějov, Žerotín NM (68), 11.vii.1998, 3 ♂♂ 1 ♀, IM. Radějov, Lučina (73), 13.v.1998, 2 ♂♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (84), 13.vii.1998, 5 ♂♂ 13 ♀♀, IM; 19.vi.2000, 2 ♀♀, PK; 27.vii.2000, 2 ♂♂, IM; 9.–10.ix.2000, 1 ♂, IM. Javorník, Jazevčí NNR (92), 6.v.2000, 10 ♂♂ ♀♀; 19.vi.2000, 5 ♂♂ 6 ♀♀; 10.ix.2000, 2 ♂♂ 3 ♀♀; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Restricted to the warm south-western part of the area; quite common on *Viburnum lantana* at sunny forest margins and scrub (e.g. along roads and scattered in meadows). **General distribution:** Palaearctic. **Host plants:** *Viburnum* spp. (in central Europe *V. lantana*). **Red List status:** Vulnerable.

Comments. *Cacopsylla viburni* is a thermophilous species; the Bílé Karpaty Mts. probably form the northern limit of its natural distributional range in central Europe (LAUTERER 1999, LAŠTŮVKA *et al.* 2008).

Cacopsylla visci (Curtis, 1835)

Published records. LAUTERER (1999), MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (74, 75).

Additional material examined. Javorník, Jazevčí NNR (92), 19.vi.2000, 2 ♀♀, IM. Strání, Záhumenice NM (99), 2.vii.2001, 5 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Recorded only for the south-western part of the area; associated with *Loranthus europaeus* on solitary oaks scattered in meadows. **General distribution:** Western Palaearctic. **Host plants:** *Loranthus europaeus* and *Viscum* spp. **Red List status:** –.

***Camarotoscena speciosa* (Flor, 1861)**

Material examined. Hrubá Vrbka, football ground (78), 28.vii.2001, 1 ♀; 20.ix.2001, 1 ♂; both IM.

Distribution and frequency in the Bílé Karpaty PLA: Collected on *Populus × canadensis* or *Populus nigra* at a single, anthropogenic site (a windbreak) at foothills of the Bílé Karpaty in the south-western part of the area. **General distribution:** Western Palearctic. **Host plants:** *Populus* spp. **Red List status:** –.

***Chamaepsylla hartigii* (Flor, 1861)**

Published records. LAUTERER (1998): Bylnice, Bylničky (26).

Additional material examined. Valašské Klobouky, Brumovská street (3), 19.v.1999, 2 ♂♂ 4 ♀♀, IM. Valašské Klobouky, U Rybníků (4), 22.v.1999, 1 ♂ 1 ♀, IM. Valašské Klobouky, Javorůvky NR (5), 2.vii.1999, 1 ♀, IM. Poteč, Ploščiny NR (10), 4.vii.1999, 1 ♂ 1 ♀; 1.vi.2002, 6 ♀♀; all IM. Nedašov, Jalovcová stráň NR (15), 20.v.1999, 1 ♂; 3.vii.1999, 1 ♀; both IM. Bylnice, railway station environs (27), 21.v.1999, 1 ♂, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 21.v.1999, 1 ♂, IM. Nedašov, Pod Cigánem NM (30), 30.vi.2004, 1 ♂; 28.v.2005, 1 ♂; both IM. Korytná, Březi (41), 5.vii.2001, 1 ♀, IM. Horní Němčí, Drahy NR (43), 23.v.2002, 2 ♂♂ 6 ♀♀, IM. Strání, village (56), 16.v.1998, 2 ♂♂ 1 ♀, IM. Radějov, Lučina (73), 7.v.2000, 1 ♂; 17.vi.2000, 1 ♂; both IM. Velká nad Veličkou, village (83), 19.vi.2000, 1 ♀, PK. Javorník, village (88), 6.v.2000, 9 ♂♂ 6 ♀♀; 24.v.2002, 2 ♂♂ 3 ♀♀; all IM. Javorník, loampit W of village (91), 24.v.2002, 1 ♀, IM. Strání, Záhumenice NM (99), 2.vii.2001, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common on *Betula pendula* throughout the area; mostly in small woods and on solitary trees scattered in meadows and pastures, frequently also in villages. **General distribution:** Holarctic. **Host plants:** *Betula* spp. **Red List status:** –.

***Craspedolepta flavipennis* (Foerster, 1848)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (74).

Additional material examined. Valašské Klobouky, Javorůvky NR (5), 22.v.1999, 1 ♀, IM. Valašské Klobouky, Dobšená NM (6), 22.v.1999, 4 ♂♂ 2 ♀♀, IM. Valašské Klobouky, Brumovka brook valley (7), 19.v.1999, 6 ♂♂ 3 ♀♀, IM; 30.vi.1999, 1 ♀, MH. Poteč, Ploščiny NR (10), 1.vi.2002, 11 ♂♂ 8 ♀♀, IM. Valašské Klobouky, Bílé potoky NR (11), 16.vi.2006, 7 ♂♂ 6 ♀♀, IM. Nedašov, Jalovcová stráň NR (15), 20.v.1999, 1 ♂; 28.v.2005, 3 ♀♀; 17.vi.2006, 1 ♂ 4 ♀♀; all IM. Nedašov, Kaňoury NM (16), 17.vi.2006, 3 ♂♂ 7 ♀♀, IM. Nedašov, Kaňúr hill and Hrušová dolina valley (17), 20.v.1999, 3 ♂♂ 2 ♀♀, IM. Bylnice, Na Stráži (25), 16.vi.2006, 5 ♂♂ 5 ♀♀, IM. Bylnice, Bylničky (26), 24.vi.1982, 4 ♂♂ 9 ♀♀, PL. Nedašov, Pod Cigánem NM (30), 30.vi.2004, 1 ♀; 28.v.2005, 9 ♂♂ 10 ♀♀; all IM. Horní Němčí, Drahy NR (43), 23.v.2002, 1 ♂, PK. Lopeník, U Zvonice NM (58), 27.vi.2004, 1 ♀, IM. Vyškovec, Vyškovecké Bošačky (65), 27.vi.2004, 4 ♂♂ 4 ♀♀; 21.v.2005, 1 ♂; all IM. Kněždub, Čertoryje NNR, Járkovec brook valley (74), 2.vi.2008, 9 ♂♂ 27 ♀♀, IM; 22.vi.2008, 2 ♀♀, KD & KF; 7.vi.2010, 9 ♂♂ 19 ♀♀, IM. Kněždub, Čertoryje NNR, Radějovka brook valley (75), 2.vi.2008, 1 ♂ 1 ♀, IM. Kněždub, Čertoryje NNR (74, 75), 19.vi.1980, 7 ♂♂, PL. Radějov, Kútky NR (82), 2.vi.1979, 2 ♂♂ 5 ♀♀, PL. Velká nad Veličkou, Zahrady pod Hájem NNR (84), 14.v.1998, 1 ♂, IM. Javorník, SW slopes of Háj hill (89), 19.vi.1980, 1 ♀, PL. Suchov, Suchovské Mlýny (85), 26.v.2005, 7 ♂♂ 2 ♀♀, IM. Nová Lhota, Fojtické Mlýny (94), 7.vii.1980, 2 ♀♀, PL. Javorník, Výzkum hill (98), 10.vi.1982, 1 ♀, PL. Strání, Záhumenice NM (99), 24.v.2001, 22 ♂♂ 16 ♀♀, IM; 8.vi.2001, 9 ♂♂ 16 ♀♀, PL; 23.v.2002, 105 ♂♂ 103 ♀♀, IM & PK.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in species-rich meadows throughout the area. **General distribution:** Central Europe (LAUTERER & BURCKHARDT 2004). **Host plant:** *Leontodon hispidus*. **Red List status:** –.

***Craspedolepta nebulosa* (Zetterstedt, 1828)**

Material examined. Strání, Javorina NNR (102), 4.vii.2001, 10 ♂♂ 6 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Found only at the top of Mt Velká Javořina. **General distribution:** Holarctic. **Host plant:** *Epilobium angustifolium*. **Red List status:** –.

***Craspedolepta nervosa* (Foerster, 1848)**

Material examined. Nedašov, Jalovcová stráž NR (15), 20.v.1999, 3 ♂♂ 5 ♀♀; 3.vii.1999, 18 ♂♂ 11 ♀♀; 28.v.2005, 11 ♂♂ 17 ♀♀; 28.vii.2005, 1 ♂ 5 ♀♀; 17.vi.2006, 4 ♂♂ 7 ♀♀; all IM. Nedašov, Kaňoury NM (16), 17.vi.2006, 1 ♀, IM; 12.vii.2006, 3 ♂♂ 6 ♀♀, IM. Bylnice, Na Stráži (25), 16.vi.2006, 1 ♂ 4 ♀♀; 11.vii.2006, 1 ♂; all IM. Bylnice, Bylničky (26), 24.vi.1982, 1 ♂ 1 ♀, PL. Horní Němčí, Hornoněmčanský háj forest (40), 7.vii.1980, 2 ♂♂ 1 ♀, PL. Korytná, Březi (41), 5.vii.2001, 1 ♂ 1 ♀, IM. Horní Němčí, Drahy NR (43), 30.vi.2001, 1 ♀, IM & PK. Horní Němčí, Vinohrádky (44), 30.vi.2001, 1 ♂, IM. Strání, Důbrava hill (57), 7.vii.1980, 1 ♂ 1 ♀, PL. Starý Hrozenkov, Skalka quarry (63), 2.vii.2007, 2 ♀♀, IM. Starý Hrozenkov, Hrozenkovské terasy (64), 2.vii.2007, 1 ♀, IM. Výškovec, Výškovecké Bošacky (65), 27.vi.2004, 1 ♂; 21.v.2005, 1 ♂; both IM. Radějov, Žerotín NM (68), 11.vii.1998, 10 ♂♂ 8 ♀♀, IM. Kněždub, Kněždubský háj forest (72), 17.vi.2000, 1 ♀, IM. Kněždub, Čertoryje NNR (74, 75), 19.vi.1980, 3 ♀♀, PL. Kněždub, Čertoryje NNR, Járkovec brook valley (74), 2.vi.2008, 1 ♀, IM. Malá Vrbka, Výzkum hill (76), 28.vii.2001, 1 ♂ 1 ♀, IM & PK. Hrubá Vrbka, football ground (78), 19.vi.2000, 1 ♀, IM & PK. Radějov, Kútky NR (82), 2.vi.1979, 1 ♂ 1 ♀, PL. Velká nad Veličkou, Zahrady pod Hájem NNR (84), 13.vii.1998, 11 ♂♂ 9 ♀♀, IM. Suchov, Suchovské Mlýny (85), 29.vi.2001, 1 ♂ 1 ♀, IM. Suchov, Trnovský Mlýn (86), 26.v.2005, 1 ♀, IM. Velká nad Veličkou, towards Javorník (87), 10.vi.1982, 1 ♀, PL. Javorník, SW slopes of Háj hill (89), 19.vi.1980, 1 ♂, PL. Javorník, loampit W of village (91), 24.v.2002, 1 ♂ 1 ♀, IM. Javorník, Jazevečí NNR (92), 19.vi.2000, 2 ♂♂; 29.vi.2001, 1 ♂; all IM. Javorník, Petruchovy Mlýny (93), 29.vi.2001, 1 ♂ 1 ♀; 23.vi.2004, 4 ♂♂ 4 ♀♀; 26.v.2005, 1 ♂; all IM. Nová Lhota, Fojtické Mlýny (94), 7.vii.1980, 1 ♂ 1 ♀, PL. Nová Lhota, Vápenky, Porážky NNR (95), 15.vii.1998, 2 ♀♀, IM. Javorník, Machová NR (97), 9.vii.1998, 3 ♂♂ 4 ♀♀; 8.v.2000, 1 ♀; all IM. Javorník, Výzkum hill (98), 10.vi.1982, 3 ♀♀, PL. Strání, Záhumenice NM (99), 24.v.2001, 1 ♂, IM; 8.vi.2001, 3 ♂♂, PL; 2.vii.2001, 25 ♂♂ 29 ♀♀, IM; 23.v.2002, 5 ♂♂ 3 ♀♀, 20.vii.2002, 1 ♂ 2 ♀♀; all IM & PK. Strání, Javorina NNR (102), 4.vii.2001, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in dry to mesic meadows and pastures throughout the area. **General distribution:** Eurosiberian. **Host plants:** *Achillea millefolium* agg. and *A. ptarmica*. **Red List status:** –.

***Craspedolepta omissa* Wagner, 1944**

Material examined. Poteč, Plošiny NR (10), 4.vii.1999, 4 ♂♂ 6 ♀♀, IM. Nedašov, village (14), 3.vii.1999, 5 ♂♂, IM. Radějov, Žerotín NM (68), 11.vii.1998, 2 ♂♂ 3 ♀♀, IM. Radějov, Lučina (73), 28.vii.2000, 3 ♂♂ 2 ♀♀, IM & PK. Kněždub, Čertoryje NNR (74, 75), 22.v.2000, 1 ♂, PK. Malá Vrbka, Výzkum hill (76), 18.vi.2000, 3 ♀♀; 27.vii.2000, 1 ♀; 28.vii.2001, 4 ♂♂ 5 ♀♀; all IM & PK. Javorník, Machová NR (97), 9.vii.1998, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread and locally common in ruderal sites throughout the area. **General distribution:** Eurosiberian. **Host plant:** *Artemisia vulgaris*. **Red List status:** –.

***Craspedolepta sonchi* (Foerster, 1848)**

(VU)

Material examined. Nedašov, Jalovcová stráň NR (15), 1.ix.2004, 3 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Recorded at only one site (Přední louky – mesic meadows adjacent to the Jalovcová stráň NR), sporadic. **General distribution:** European (LAUTERER & BURCKHARDT 2004). **Host plants:** *Leontodon autumnale* and *L. hispidus*. **Red List status:** Vulnerable.

Comments. *Craspedolepta sonchi* is an uncommon species in the Czech Republic which occurs mostly in meadows and pastures in highlands (LAUTERER 1963, 1965, 2001; LAUTERER & BURCKHARDT 2004).

***Craspedolepta subpunctata* (Foerster, 1848)**

Material examined. Strání, Důbrava hill (57), 7.vii.1980, 1 ♂, PL. Strání, Javorina NNR (102), 12.vii.1998, galls; 4.vii.2001, 2 ♂♂ 1 ♀; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Found only at two sites; the top of Mt Velká Javořina and a forest glade near Strání. **General distribution:** Holarctic. **Host plant:** *Epilobium angustifolium*. **Red List status:** –.

***Livia junci* (Schrank, 1789)**

Published records. LANG (1945): Březová, Kalábová NM (53). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (74, 75).

Additional material examined. Valašské Klobouky, U Rybníků (4), 22.v.1999, 2 ♂♂, IM. Valašské Klobouky, Javorůvky NR (5), 22.v.1999, 1 ♀; 11.ix.1999, 3 ♂♂ 4♀♀; all IM. Valašské Klobouky, Dobšená NM (6), 2.vii.1999, 1 ♂; 10.ix.1999, 1 ♂ 4♀♀; all IM. Valašské Klobouky, Brumovka brook valley (7), 9.ix.1999, 2♀♀, IM. Valašské Klobouky, Na Nivách (8), 9.ix.1999, 1 ♂, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 4 ♂♂ 1 ♀, IM. Horní Němčí, Drahy NR (43), 30.vi.2001, 2 ♂♂ 1 ♀, IM. Březová, Kalábová NM (53), 4.vii.2001, 1 ♂, IM. Lopeník, Lopenické sedlo (59), 25.ix.2004, 1 ♂, IM. Radějov, Měsíční údolí valley (80), 8.ix.1998, 1 ♀, IM. Radějov, Kútky NR (82), 11.vii.1998, 1 ♂ 3♀♀; 8.ix.1998, 1 ♀; all IM. Javorník, Jazevčí NNR (92), 6.v.2000, 1 ♂; 19.vi.2000, 2♀♀; all IM. Strání, Javorina NNR (102), 4.vii.2001, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common in spring fens throughout the area. **General distribution:** Palaearctic. **Host plants:** *Juncus* spp. **Red List status:** –.

***Livilla radiata* (Foerster, 1848)**

(EN)

(Fig. 6)

Material examined. Starý Hrozenkov, Skalka quarry (63), 2.vii.2007, 1 ♀, IM. Kněždub, Kněždubský háj forest (72), 17.vi.2000, 1 ♂, IM; 22.vi.2001, 1 ♂, IM & PK.

Distribution and frequency in the Bílé Karpaty PLA: Recorded only at two sites in the central and south-western parts of the area; sporadic on *Cytisus nigricans* at sunny forest margins. **General distribution:** Europe (except Scandinavia). **Host plants:** *Chamaecytisus* spp. and *Cytisus* spp. **Red List status:** Endangered.

Comments. *Livilla radiata* is a xerothermophilous species occurring locally in warm areas of the Czech Republic in dry grassland and at forest margins (VONDRÁČEK 1957, LAUTERER 1963, MALENOVSKÝ *et al.* 2011).

Livilla variegata (Löw, 1881)

Published records. LAUTERER & MALENOVSKÝ (2002), MALENOVSKÝ & LAUTERER (2005c): Korytná, village (51); Velká nad Veličkou, village (83). MALENOVSKÝ & LAUTERER (2005c): Strání, Květná, village (101).

Distribution and frequency in the Bílé Karpaty PLA: Restricted to ornamental vegetation (gardens, parks, etc.) in villages: uncommon. **General distribution:** Native to south-western Europe and the Alps, introduced to central Europe, Great Britain and North America. **Host plants:** *Laburnum anagyroides* and *L. alpinum*. **Red List status:** –.

Psylla alni (Linnaeus, 1758)

Published records. LAUTERER (1998): Luhačovice, Luhačovická dolina valley (18); Popov, Havránkův potok brook valley (22); Bylnice, Bylničky (26); Boršice u Blatnice, Boršický potok brook valley (37); Komňa, Nový Dvůr (48); Lopeník, Mikulčín vrch hill (60); Kněždub, Čertoryje NNR (74, 75); Radějov, Kútky NR (82); Nová Lhota, Fojtické Mlýny (94). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (74, 75).

Additional material examined. Valašské Klobouky, Brumovská street (3), 9.ix.1999, 2 ♂♂ 4 ♀♀, IM. Valašské Klobouky, U Rybníků (4), 10.ix.1999, 1 ♂ 1 ♀, IM. Valašské Klobouky, Javorůvky NR (5), 24.viii.2002, 1 ♂, PK. Valašské Klobouky, Brumovka brook valley (7), 30.vi.1999, 19 ♂♂ 10 ♀♀, MH. Poteč, Ploštiny NR (10), 17.viii.2006, 1 ♂, PK. Valašské Klobouky, Bílé potoky NR (11), 30.vi.1999, 1 ♀, PK; 9.ix.1999, 3 ♀♀, IM; 23.viii.2002, 1 ♂, PK; 16.vi.2006, many ♂♂ ♀♀, IM; 11.vii.2006, 1 ♂ 4 ♀♀, IM. Brumov, Uhlíčky (13), 28.vii.2005, 1 ♂; 4.ix.2005; 1 ♂; both PK. Nedašov, Jalovcová stráž NR (15), 3.vii.1999, 1 ♂, IM. Bylnice, railway station environs (27), 1.vii.1999, 1 ♂ 4 ♀♀, MH & PK; 11.ix.1999, 7 ♂♂ 8 ♀♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 1 ♂, IM. Nedašov, Na Salaši (29), 10.ix.1999, 2 ♂♂ 3 ♀♀, IM. Nedašov, Pod Cigánem NM (30), 28.vii.2005, 1 ♀, IM. Korytná, Břeží (41), 5.vii.2001, 2 ♂♂ 1 ♀, IM. Horní Němčí, Drahy NR (43), 15.v.1998, 1 ♀; 10.ix.1998, many ♂♂ ♀♀; all IM; 30.vi.2001, 6 ♂♂ 3 ♀♀, IM & PK; 13.viii.2001, 1 ♂, PK; 21.ix.2001, 3 ♂♂, PK; 23.v.2002, 5 ♂♂ 8 ♀♀, IM. Vápenice, Trstná brook valley (50), 6.vii.2001, 1 ♂, IM & PK. Korytná, Lubná pond environs (52), 5.vii.2001, 1 ♀, IM. Březová, Kalábová NM (53), 4.vii.2001, 4 ♂♂, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (54), 10.vii.1998, 1 ♂ 2 ♀♀; 10.ix.1998, 2 ♂♂ 1 ♀; all IM. Lopeník, U Zvonice NM (58), 25.ix.2004, 2 ♂♂ 1 ♀, IM. Lopeník, Mikulčín vrch hill (60), 24.vii.2005, 1 ♂ 1 ♀, IM. Vápenice, Krátkovský potok brook valley (62), 6.vii.2001, 1 ♂, IM & PK. Starý Hrozenkov, Skalka quarry (63), 2.vii.2007, 1 ♂, IM. Starý Hrozenkov, Hrozenkovské terasy (64), 2.vii.2007, 8 ♂♂ 1 ♀, IM. Výškovec, Výškovecké Bošačky (65), 25.ix.2004, 1 ♀, PK. Radějov, Lučina (73), 14.vii.1998, 3 ♂♂ 3 ♀♀; 17.vi.2000, 2 ♀♀, IM; 28.vii.2000, 1 ♂; 22.vi.2001, 1 ♂ 5 ♀♀, all IM & PK. Kněždub, Čertoryje NNR (74, 75), 22.v.2000, 2 ♂♂ 2 ♀♀, PK. Radějov, Měsíční údolí valley (80), 8.ix.1998, many ♂♂ ♀♀, IM; 20.viii.2002, 2 ♂♂ 1 ♀, PK. Radějov, Veselka hill (81), 11.vii.1998, 2 ♂♂, IM. Radějov, Kútky NR (82), 8.ix.1998, 1 ♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (84), 14.v.1998, 1 ♀, IM. Suchov, Suchovské Mlýny (85), 1.ix.2005, 1 ♀, IM. Javorník, village (88), 8.viii.2001, 1 ♀, PK. Javorník, Jazevčí NNR (92), 29.vi.2001, 1 ♀, IM. Nová Lhota, Vápenky, Porážky NNR (95), 9.ix.1998, 1 ♀, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (96), 12.vii.1998, 3 ♂♂ 2 ♀♀, IM. Javorník, Machová NR (97), 9.vii.1998, 2 ♀♀, IM. Strání, Záhumenice NM (99), 2.vii.2001, 5 ♂♂ 5 ♀♀; 9.viii.2001, 1 ♂ 2 ♀♀; 21.ix.2001, 2 ♀♀; all IM; 23.v.2002, 1 ♀, PK.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; on *Alnus glutinosa* and *A. incana* in the vicinity of standing and running water, in wet meadows, floodplains, etc. **General distribution:** Holarctic. **Host plants:** *Alnus* spp. **Red List status:** –.

Psylla buxi (Linnaeus, 1758)

Material examined. Strání, village (56), 10.vii.1998, 5 ♀♀, IM. Kněždub, village (69), 22.vi.2001, 1 ♂ 1 ♀, IM & PK. Radějov, village (70), 11.vii.1998, 1 ♂ 2 ♀♀, IM; 9.viii.2002, 2 ♀♀, PK. Hrubá Vrbka, village (79), 28.vii.2001, 2 ♂♂ 8 ♀♀, IM. Velká nad Veličkou, village (83), 19.vi.2000, 3 ♂♂ 6 ♀♀, PK. Javorník, village (88), 8.viii.2001, 6 ♀♀, PK.

Distribution and frequency in the Bílé Karpaty PLA: Restricted to ornamental vegetation in villages (gardens, hedges, cemeteries, etc.), quite common at least in the south-western part of the area. **General distribution:** Native to western and southern Europe and Caucasus, introduced into central and northern Europe, North America and Pacific. **Host plant:** *Buxus sempervirens*. **Red List status:** –.

Psylla fusca (Zetterstedt, 1828)

Material examined. Bylnice, railway station environs (27), 1.vii.1999, 1 ♂ 3 ♀♀, MH & PK. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 1.vii.1999, 1 ♂, PK. Nedašov, Na Salaši (29), 5.vii.1999, 4 ♂♂, IM. Horní Němčí, Drahy NR (43), 30.vi.2001, 7 ♂♂ 4 ♀♀, IM. Suchov, Suchovské Mlýny (85), 29.vi.2001, 13 ♂♂ 7 ♀♀, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (96), 12.vii.1998, 3 ♂♂ 9 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread throughout the area but somewhat local and uncommon; in the vicinity of running water and locally (Drahy NR) also on shrubs growing on landslides. **General distribution:** Europe and Caucasus. **Host plant:** *Alnus incana*. **Red List status:** –.

Psyllopsis discrepans (Flor, 1861)

Material examined. Radějov, Lučina (73), 22.vi.2001, 2 ♂♂ 1 ♀, IM & PK. Velká nad Veličkou, Zahrady pod Hájem NNR (84), 9.–10.ix.2000, 1 ♀, IM. Velká nad Veličkou, towards Javorník (87), 10.vi.1982, 1 ♂ 1 ♀, PL.

Distribution and frequency in the Bílé Karpaty PLA: Found only at low elevations in the warm, south-western part of the area; on *Fraxinus excelsior* in floodplain woodland along a brook and at forest margins, rare. **General distribution:** Western Palearctic, introduced into North America. **Host plants:** *Fraxinus* spp. **Red List status:** –.

Psyllopsis fraxini (Linnaeus, 1758)

Published records. BAYER (1909, 1914): Luhačovice (1). HUBÁČEK (1979): Blatnička, Jasenová hill (36). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (74).

Additional material examined. Valašské Klobouky, Brumovská street (3), 9.ix.1999, 2 ♂♂ 2 ♀♀, IM. Valašské Klobouky, Bílé potoky NR (11), 9.ix.1999, 2 ♂♂, IM. Nedašov, village (14), 3.vii.1999, 1 ♀, IM. Nedašov, Jalovcová stráž NR (15), 10.ix.1999, 1 ♀, IM. Nedašov, Kaňoury NM (16), 12.vii.2006, 1 ♂ 1 ♀, IM.

Bylnice, Bylničky (26), 24.vi.1982, many ♂♂ ♀♀, PL. Nedašov, Na Salaši (29), 10.ix.1999, 2 ♂♂ 2 ♀♀, IM. Vápenice, Trstná brook valley (50), 6.vii.2001, 1 ♀, IM & PK. Komňa, Nový Dvůr (48), 21.viii.1984, 1 ♀, PL. Korytná, Lubná pond environs (52), 5.vii.2001, 1 ♂ 3 ♀♀, IM. Březová, Kalábová NM (53), 4.vii.2001, 1 ♂, IM. Lopeník, U Zvonice NM (58), 25.ix.2004, 1 ♀, IM. Vyškovec, Vyškovecké Bošáčky (65), 25.ix.2004, 1 ♂ 1 ♀, PK. Radějov, Lučina (73), 14.vii.1998, 1 ♀, IM; 17.vi.2000, 4 ♂♂ 4 ♀♀, IM; 22.vi.2001, 2 ♂♂ 3 ♀♀, IM & PK. Malá Vrbka, Výzkum hill (76), 25.v.2000, 1 ♀, IM; 18.vi.2000, 3 ♂♂ 4 ♀♀, IM & PK. Radějov, Veselka hill (81), 11.vii.1998, 1 ♂ 1 ♀, IM. Velká nad Veličkou, village (83), 19.vi.2000, 1 ♂ 4 ♀♀, PK. Velká nad Veličkou, Zahrady pod Hájem NNR (84), 13.vii.1998, 1 ♂ 1 ♀, IM; 19.vi.2000, 3 ♀♀, PK; 9.–10.ix.2000, 1 ♂ 6 ♀♀, IM. Suchov, Suchovské Mlýny (85), 29.vi.2001, 7 ♂♂ 5 ♀♀, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (96), 12.vii.1998, 2 ♂♂ 4 ♀♀, IM. Strání, Javorina NNR (102), 4.vii.2001, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; on *Fraxinus excelsior* in various habitats (floodplain woodland, ravine forests, forest margins, solitary trees, etc.). **General distribution:** Western Palaearctic, introduced into North America, Australia and New Zealand. **Host plants:** *Fraxinus* spp. **Red List status:** –.

Psyllopsis fraxinicola (Foerster, 1848)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (74).

Additional material examined. Nedašov, Kaňoury NM (16), 12.vii.2006, 1 ♂ 2 ♀♀, IM. Bylnice, Bylničky (26), 24.vi.1982, 4 ♂♂ 1 ♀, PL. Bylnice, railway station environs (27), 1.vii.1999, 1 ♂ 1 ♀, MH & PK. Korytná, Lubná pond environs (52), 5.vii.2001, 1 ♀, IM. Lopeník, U Zvonice NM (58), 25.ix.2004, 1 ♂, IM. Radějov, Lučina (73), 14.vii.1998, 1 ♀; 17.vi.2000, 1 ♂ 1 ♀; all IM. Malá Vrbka, Výzkum hill (76), 18.vi.2000, 4 ♂♂ 6 ♀♀, IM & PK. Velká nad Veličkou, village (83), 19.vi.2000, 7 ♂♂ 10 ♀♀, PK. Velká nad Veličkou, Zahrady pod Hájem NNR (84), 13.vii.1998, 2 ♂♂; 9.–10.ix.2000, 2 ♀♀; all IM. Javorník, village (88), 8.viii.2001, 1 ♂ 4 ♀♀, PK. Javorník, Petruchovy Mlýny (93), 24.v.2002, 1 ♀, PK. Nová Lhota, Vápenky, Porážky NNR (95), 15.vii.1998, 1 ♂ 1 ♀, IM. Javorník, Machová NR (97), 9.vii.1998, 3 ♂♂ 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; on *Fraxinus excelsior* in various habitats (e.g. at forest margins and along streams). **General distribution:** Western Palaearctic, introduced into North and South America, Australia and New Zealand. **Host plants:** *Fraxinus* spp. **Red List status:** –.

Rhinocola aceris (Linnaeus, 1758)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (74).

Additional material examined. Valašské Klobouky, Brumovská street (3), 19.v.1999, 2 ♂♂ 1 ♀, IM. Valašské Klobouky, Javorůvky NR (5), 22.v.1999, 3 ♂♂ 5 ♀♀; 2.vii.1999, 1 ♀; all IM. Valašské Klobouky, Dobšená NM (6), 22.v.1999, 1 ♀; 2.vii.1999, 1 ♀; all IM. Valašské Klobouky, Brumovka brook valley (7), 19.v.1999, 1 ♂ 3 ♀♀, IM. Poteč, Ploščíny NR (10), 4.vii.1999, 3 ♂♂ 1 ♀, IM; 1.vi.2002, 1 ♀, IM; 17.viii.2006, 1 ♀, PK. Valašské Klobouky, Bílé potoky NR (11), 9.ix.1999, 1 ♀; 16.vi.2006, 1 ♀; 11.vii.2006, 3 ♂♂ 1 ♀; all IM. Nedašov, Kaňoury NM (16), 12.vii.2006, 2 ♂♂, IM. Nedašov, Kaňúr hill and Hrušová dolina valley (17), 20.v.1999, 1 ♀, IM. Petrůvka, Kladenka brook valley (19), 25.vi.–15.vii.2008, 1 ♀, MT, PC, JJ & JM. Bylnice, Na Stráži (25), 16.vi.2006, 5 ♂♂ 8 ♀♀; 11.vii.2006, 2 ♂♂ 4 ♀♀; all IM. Bylnice, railway station environs (27), 21.v.1999, 1 ♂, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 21.v.1999, 1 ♂ 1 ♀, IM. Horní Němčí, village (39), 15.v.1998, 1 ♂, IM. Horní Němčí, Hornoněmčanský háj forest (40), 7.vii.1980, 2 ♀♀, PL. Korytná, Březí (41), 5.vii.2001, 1 ♂, IM. Horní Němčí, Drahy NR (43), 23.v.2002, 1 ♂ 4 ♀♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (54), 10.vii.1998, 1 ♀, IM. Lopeník, U

Jumping plant-lice (Hemiptera: Psylloidea)

Zvonice NM (58), 27.vi.2004, 2 ♂♂ 2 ♀♀; 24.vii.2005, 4 ♂♂ 14 ♀♀; all IM. Lopeník, Mikulčín vrch hill (60), 24.vii.2005, 2 ♂♂ 1 ♀, IM. Starý Hrozenkov, Hrozenkovské terasy (64), 2.vii.2007, 1 ♂, IM. Radějov, village (70), 14.viii.1977, 1 ♂, R.J. Radějov, Holý vrch hill (71), 8.ix.1998, 1 ♂, IM. Kněždub, Kněždubský háj forest (72), 17.vi.2000, 1 ♀, IM. Radějov, Lučina (73), 13.v.1998, 1 ♂; 14.vii.1998, 2 ♂♂ 1 ♀; all IM. Kněždub, Čertoryje NNR (74, 75), 19.vi.1980, 1 ♀, PL. Malá Vrbka, Výzkum hill (76), 25.v.2000, 2 ♂♂ 4 ♀♀; 18.vi.2000, 2 ♂♂ 8 ♀♀; 27.vii.2000, 1 ♀; all IM & PK. Radějov, Veselka hill (81), 11.vii.1998, 3 ♂♂ 4 ♀♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (84), 19.vi.2000, 1 ♂ 2 ♀♀, PK. Suchov, Suchovské Mlýny (85), 6.v.2000, 1 ♀; 29.vi.2001, 3 ♀♀; 23.vi.2004, 1 ♀; all IM. Javorník, village (88), 24.v.2002, 1 ♂, IM; 8.viii.2001, 1 ♀, PK. Javorník, Jazevčí NNR (92), 6.v.2000, 10 ♂♂ 2 ♀♀; 19.vi.2000, 1 ♂ 5 ♀♀; all IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (96), 12.vii.1998, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in various kinds of habitats (e.g. at forest margins) throughout the area. **General distribution:** Western Palaearctic. **Host plants:** *Acer* spp. **Red List status:** –.

Strophiingia ericae (Curtis, 1835)

Material examined. Nedašov, Jalovcová stráň NR (15), 3.vii.1999, 4 ♂♂ 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Found in only one, extremely small heathland site in the north-eastern part of the area: sporadic and local. **General distribution:** European. **Host plant:** *Calluna vulgaris*. **Red List status:** –.

Family TRIOZIDAE

Bactericera albiventris (Foerster, 1848)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (74).

Additional material examined. Valašské Klobouky, Brumovská street (3), 19.v.1999, 1 ♂, IM. Valašské Klobouky, U Rybníků (4), 22.v.1999, 1 ♀, IM. Bylnice, railway station environs (27), 21.v.1999, 1 ♀; 11.ix.1999, 1 ♂ 1 ♀; all IM. Boršice u Blatnice, Boršický potok brook valley (37), 16.viii.1984, 1 ♀, PL. Horní Němčí, village (39), 15.v.1998, 1 ♀; 10.ix.1998, 2 ♀♀; all IM. Suchov, Kazivec brook valley (42), 15.v.1998, 1 ♀, IM. Starý Hrozenkov, Skalka quarry (63), 2.vii.2007, 1 ♀; 8.viii.2007, 1 ♀; both IM. Starý Hrozenkov, Hrozenkovské terasy (64), 8.viii.2007, 2 ♀♀, IM. Radějov, village (70), 14.viii.1977, 1 ♀, R.J. Radějov, Lučina (73), 13.v.1998, 1 ♀; 14.vii.1998, 4 ♀♀; 28.vii.2000, 2 ♀♀; 22.vi.2001, 1 ♂ 5 ♀♀; all IM & PK. Kněždub, Čertoryje NNR (74, 75), 19.vi.1980, 1 ♂, PL. Malá Vrbka, Výzkum hill (76), 2.v.2001, 1 ♂, IM & PK. Malá Vrbka, village (77), 28.vii.2001, 1 ♂ 3 ♀♀, IM. Velká nad Veličkou, village (83), 19.vi.2000, 1 ♀, PK; 9.ix.2000, 1 ♂, IM. Suchov, Suchovské Mlýny (85), 29.vi.2001, 1 ♂ 2 ♀♀, IM. Strání, Záhumenice NM (99), 8.vi.2001, 1 ♂, PL.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common throughout the area: along streams, around ponds and springs, as well as on ornamental weeping willows in villages. **General distribution:** Palaearctic. **Host plants:** *Salix* spp. (*S. alba*, *S. fragilis*, *S. triandra*, *S. pentandra*, and *S. purpurea*). **Red List status:** –.

Bactericera curvatinervis (Foerster, 1848)

Material examined. Horní Němčí, Drahy NR (43), 10.ix.1998, 1 ♂, IM. Lopeník, U Zvonice NM (58), 25.ix.2004, 1 ♂ 1 ♀, IM. Starý Hrozenkov, Skalka quarry (63), 22.ix.2007, 1 ♀, IM. Strání, Záhumenice NM (99), 24.v.2001, 1 ♂, IM. Strání, Nová hora NR (100), 16.v.1998, 1 ♀, IM. Strání, Javorina NNR (102), 29.x.2011, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Recorded from the central and south-western parts of the area; quite uncommon at road margins, in wet meadows and pastures, as well as in an abandoned quarry. An overwintering specimen was found also at the highest elevation, the top of Mt Velká Javořina (ca. 950 m). **General distribution:** Palearctic. **Host plants:** *Salix* spp. (*S. alba*, *S. aurita*, *S. caprea*, *S. cinerea*, *S. purpurea*, *S. repens*, and *S. viminalis*). **Red List status:** –.

Bactericera femoralis (Foerster, 1848)

Material examined. Valašské Klobouky, Javorůvky NR (5), 2.vii.1999, 1 ♂; 11.ix.1999, 1 ♂ 1 ♀; all IM. Valašské Klobouky, Brumovka brook valley (7), 30.vi.1999, 1 ♂, MH; 9.ix.1999, 1 ♂ 1 ♀, IM. Poteč, Ploščiny NR (10), 1.vi.2002, 2 ♀♀, IM. Valašské Klobouky, Bílé potoky NR (11), 16.vi.2006, 2 ♂♂ 3 ♀♀; 11.vii.2006, 3 ♂♂ 5 ♀♀; all IM. Brumov, Uhličky (13), 30.vi.2004, 1 ♂ 2 ♀♀, IM; 28.vii.2005, 1 ♀; 4.ix.2005, 1 ♀; both PK. Nedašov, Jalovcová stráž NR (15), 16.viii.2006, 1 ♂, PK. Nedašov, Kaňoury NM (16), 17.vi.2006, 1 ♂, IM; 12.vii.2006, 3 ♂♂ 12 ♀♀, IM. Brumov, Kloboucká street (24), 4.ix.2005, 1 ♂, PK. Nedašov, Pod Cigánem NM (30), 30.vi.2004, 3 ♂♂ 1 ♀; 5.x.2004, 1 ♂; 28.vii.2005, 3 ♂♂ 5 ♀♀; 6.ix.2005, 6 ♂♂ 2 ♀♀; all IM. Horní Němčí, Drahy NR (43), 30.vi.2001, 1 ♀, IM. Horní Němčí, Vínohrádky (44), 30.vi.2001, 2 ♂♂; 20.vii.2002, 1 ♂, IM. Lopeník, U Zvonice NM (58), 27.vi.2004, 4 ♂♂ 6 ♀♀; 25.ix.2004, 1 ♂; all IM. Lopeník, Lopenické sedlo (59), 27.vi.2004, 4 ♂♂ 4 ♀♀; 25.ix.2004, 11 ♂♂ 16 ♀♀; 21.v.2005, 1 ♀; 24.vii.2005, 3 ♂♂ 2 ♀♀; all IM; 3.ix.2005, 1 ♀, PK. Vyškovec, Vyškovecké Bošáčky (65), 27.vi.2004, 1 ♂ 1 ♀, IM; 19.viii.2004, 1 ♂, PK; 3.ix.2005, 1 ♂, PK. Vyškovec, Pod Hřibovňou NM (66), 28.vi.2004, 4 ♂♂ 3 ♀♀, IM. Suchov, Trnovský Mlýn (86), 23.vi.2004, 1 ♂ 2 ♀♀, IM; 16.viii.2004, 1 ♀, PK; 27.vii.2005, 1 ♂, IM; 1.ix.2005, 2 ♂♂ 1 ♀, IM. Nová Lhota, Vápenky, Porážky NNR (95), 15.vii.1998, 1 ♂; 9.ix.1998, 2 ♂♂ 1 ♀; all IM. Strání, Záhumenice NM (99), 2.vii.2001, 41 ♂♂ 33 ♀♀, IM & PK; 9.viii.2001, 2 ♂♂ 2 ♀♀, PK; 21.ix.2001, 9 ♂♂ 15 ♀♀, IM; 20.vii.2002, 3 ♂♂ 4 ♀♀, IM; 12.ix.2002, 1 ♂ 2 ♀♀, IM. Strání, Javorina NNR (102), 4.vii.2001, 1 ♂ 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in mesic to wet meadows and pastures throughout most of the area but apparently absent from the warmest, extreme south-western part. **General distribution:** Eurosiberian. **Host plants:** *Alchemilla* spp. **Red List status:** –.

Bactericera kratochvili Vondráček, 1957

(EN)

Material examined. Komňa, Nový Dvůr (48), 21.viii.1984, 1 ♀, PL.

Distribution and frequency in the Bílé Karpaty PLA: Recorded as a single specimen in the central part of the area. As the main host plant of the species, *Allium senescens* subsp. *montanum*, is extremely rare in the Czech part of the Bílé Karpaty Mts. (JONGEPIER & JONGEPIEROVÁ 2006, JONGEPIER & PECHANEC 2006) and *B. kratochvili* has not been collected again in the area in recent years, the finding may be due to a migrating specimen collected on a dispersion flight. Suitable habitats for *Bactericera kratochvili* are, however, present in the limestone cliff zone of the Slovak part of the Bílé Karpaty Mts. (ca. 60 km away from the collecting site in Komňa) and the species may naturally occur there. **General distribution:** Central and eastern Europe, Central Asia and Mongolia. **Host plant:** *Allium senescens* subsp. *montanum*. **Red List status:** Endangered.

Comments. In the Czech Republic, *Bactericera kratochvili* occurs only locally, being largely restricted to dry grassland sites on rocks. It has been recorded for southern Bohemia (the Vyšenské kopce hills near Český Krumlov) and southern Moravia (e.g. the environs of Brno, Miroslav, and the Pavlovské vrchy hills) (LAUTERER 1965, 1991, 1995; LAUTERER & MALENOVSKÝ 2002).

***Bactericera lyrata* Seljak, Malenovský et Lauterer, 2008**

(Fig. 7)

Material examined. Hrubá Vrbka, football ground (78), 20.ix.2001, 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Known from only one site at the foothills of the Bílé Karpaty Mts. in the south-western part of the area; the specimens were collected in a mesic, quite eutrophicated grassland on a margin of a football ground and fields. **General distribution:** So far known only from Slovenia (type series) and Hungary (unpublished data based on a material from the Hungarian Natural History Museum, Budapest, P. Lauterer & I. Malenovský det.). **Host plant:** Unknown, perhaps *Potentilla reptans* or *Sanguisorba officinalis* (SELJAK *et al.* 2008). **Red List status:** Not evaluated.

Comments. *Bactericera lyrata* is a recently described species, quite similar in morphology to the related *B. modesta* and *B. reuteri* (Šulc, 1913) and perhaps partly overlooked or misidentified so far. It is reported here for the Czech Republic for the first time.

***Bactericera maura* (Foerster, 1848)**

(NT)

Material examined. Horní Němčí, Drahy NR (43), 30.vi.2001, 3 ♂♂ 8 ♀♀, IM. Radějov, Lučina (73), 13.v.1998, 1 ♀, IM. Velká nad Veličkou, village (83), 18.iv.2000, 1 ♂, IM; 19.vi.2000, 1 ♀, PK. Suchov, Suchovské Mlýny (85), 6.v.2000, 1 ♀, IM. Strání, Záhumenice NM (99), 8.vi.2001, 1 ♀, PL.

Distribution and frequency in the Bílé Karpaty PLA: Found at several sites in the south-western part of the area, mostly on *Salix purpurea* along streams and around springs and ponds: uncommon. **General distribution:** Europe, Caucasus, Kazakhstan. **Host plants:** *Salix* spp. (*S. alba*, *S. fragilis*, *S. triandra*, *S. purpurea*; VONDRÁČEK 1957). **Red List status:** Near-threatened.

Comments. In the Czech Republic, *Bactericera maura* is a quite rare species found at a few sites in the lowlands of central and southern Moravia (LAUTERER 1963, 1994).

***Bactericera modesta* (Foerster, 1848)**

(EN)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (74).

Additional material examined. Brumov, Uhlíčky (13), 30.vi.2004, 3 ♀♀, IM; 4.ix.2005, 1 ♀, PK. Nedašov, Kaňoury NM (16), 12.vii.2006, 1 ♀, IM. Nedašov, Pod Cigánem NM (30), 30.vi.2004, 1 ♂; 1.ix.2004, 1 ♂ 3 ♀♀; 5.x.2004, 3 ♂♂; 28.vii.2005, 1 ♀; 6.ix.2005, 7 ♀♀; all IM. Horní Němčí, Drahy NR (43), 10.ix.2002, 1 ♂, IM. Komňa, Lom Rasová NM (49), 5.vii.2001, 1 ♂ 1 ♀, IM. Kněždub, Čertoryje NNR, Járkovec brook valley (74), 12.viii.2008, 2 ♀♀, KD & KF. Kněždub, Čertoryje NNR, Radějovka brook valley (75), 22.vi.2008, 1 ♂ 1 ♀, KD & KF. Nová Lhota, Vápenky, Porážky NNR (95), 28.x.2011, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area but quite rare; mostly associated with *Sanguisorba officinalis* in non-intensively used mesic to wet meadows but also found on *S. minor* in a fragment of dry grassland in an abandoned quarry (Komňa, Lom Rasová NM). **General distribution:** Europe, Central Asia, Mongolia. **Host plants:** *Sanguisorba minor* and *S. officinalis*. **Red List status:** Endangered.

Comments. In the Czech Republic, *B. modesta* is probably a widespread but local and rare species confined to habitats valuable from a general nature-conservationist viewpoint. It has been documented from the Pavlovské vrchy Hills and the environs of Hustopeče in southern Moravia, the Bohemian-Moravian Highlands, the Bohemian Karst in central Bohemia, the environs of Dvůr Králové in north-eastern Bohemia, the environs of Plzeň in western Bohemia, as well as from the eastern part of the Šumava Mts. in southern Bohemia (ŠULC 1912; VONDRÁČEK 1957; DOSKOČIL & HŮRKA 1962; LAUTERER 1963, 1991, 1994, 1995; MALENOVSKÝ *et al.* 2011; and unpublished material from the collections of the Moravian Museum, Brno).

***Bactericera nigricornis* (Foerster, 1848)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (74).

Additional material examined. Poteč, Ploščiny NR (10), 1.vi.2002, 1 ♂ 1 ♀, IM. Brumov, Uhličky (13), 30.vi.2004, 2 ♂♂ 2 ♀♀; 1.ix.2004, 1 ♂; 5.x.2004, 3 ♂♂ 1 ♀; all IM; 28.vii.2005, 4 ♂♂ 5 ♀♀; 4.ix.2005, 1 ♂ 1 ♀; all PK. Bojkovice, town (20), 5.viii.1962, 1 ♀, PL. Nedašov, Pod Cigánem NM (30), 5.x.2004, 2 ♂♂ 1 ♀; 28.vii.2005, 1 ♀; 6.ix.2005, 1 ♂ 1 ♀; all IM. Horní Němčí, Drahy NR (43), 10.ix.2002, 1 ♂ 1 ♀, IM. Horní Němčí, Vinohrádky (44), 30.vi.2001, 1 ♀, IM. Vápenice, Trstná brook valley (50), 6.vii.2001, 1 ♀, IM & PK. Strání, Obecnice hill (55), 20.vii.2002, 1 ♀, IM & PK; 12.ix.2002, 1 ♀, IM. Lopeník, Lopenické sedlo (59), 3.ix.2005, 1 ♂, PK. Vyškovec, Vyškovecké Bošačky (65), 19.viii.2004, 1 ♂ 1 ♀; 25.ix.2004, 1 ♂; 3.ix.2005, 1 ♂; all PK. Vyškovec, Pod Hřibovňou NM (66), 25.ix.2004, 2 ♀♀, PK. Malá Vrbka, Výzkum hill (76), 18.vi.2000, 1 ♀; 27.vii.2000, 1 ♂; 2.v.2001, 1 ♀; 28.vii.2001, 4 ♂♂ 6 ♀♀; 20.ix.2001, 1 ♂; all IM & PK. Suchov, Suchovské Mlýny (85), 29.vi.2001, 1 ♀, IM; 16.viii.2004, 2 ♂♂ 1 ♀, PK; 1.x.2004, 4 ♂♂ 6 ♀♀, IM. Javorník, Petruchovy Mlýny (93), 23.ix.2001, 1 ♂; 17.vii.2002, 1 ♂ 2 ♀♀; 7.ix.2002, 1 ♂; 2.ix.2004, 1 ♀; all IM. Strání, Záhumenice NM (99), 9.viii.2001, 3 ♀♀, PK; 21.ix.2001, 9 ♂♂ 1 ♀, IM; 20.vii.2002, 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common in meadows, pastures and ruderal sites throughout the area, although usually collected in low numbers of specimens. **General distribution:** Western Palaearctic, Central Asia, Siberia, Mongolia. **Host plants:** Polyphagous on a variety of dicotyledonous herbs. **Red List status:** –.

***Bactericera striola* (Flor, 1861)**

Material examined. Valašské Klobouky, Bílé potoky NR (11), 9.ix.1999, 1 ♂, IM. Bylnice, Bylničky (26), 24.vi.1982, 1 ♀, PL. Bylnice, railway station environs (27), 21.v.1999, 1 ♀, IM. Starý Hrozenkov, Skalka quarry (63), 22.ix.2007, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Found in the north-eastern and central parts of the area; quite rare in willow shrubs along streams, around springs, as well as in an abandoned quarry. **General distribution:** Palaearctic. **Host plants:** *Salix*

spp. (*S. aurita*, *S. caprea*, *S. cinerea*, *S. myrsinifolia*, *S. phyllicifolia*, *S. fragilis*, *S. purpurea*, and *S. lapponum*). **Red List status:** –.

***Bactericera substriola* Ossiannilsson, 1992**

(Fig. 8)

Material examined. Bylnice, railway station environs (27), 11.ix.1999, 1 ♀, IM. Suchov, Suchovské Mlýny (85), 29.vi.2001, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Known from two isolated collections in the valleys of the Vlára and Velička rivers in the north-eastern and south-western parts of the area, respectively; sporadic on streamside vegetation at relatively low elevations. **General distribution:** European (Austria, Germany, Great Britain, Sweden, and Switzerland). **Host plants:** Reported from *Salix lapponum* and *S. elaeagnos* (OSSIANNILSSON 1992, BURCKHARDT & LAUTERER 1997b). Both willow species currently do not occur in the Bílé Karpaty PLA (JONGEPIER & JONGEPIEROVÁ 2006, JONGEPIER & PECHANEC 2006). *Bactericera substriola* is thus probably more oligophagous and associated with some additional *Salix* sp. in the region. **Red List status:** Not evaluated.

Comments. *Bactericera substriola* is a member of a taxonomically critical group of species (OSSIANNILSSON 1992, BURCKHARDT & LAUTERER 1997b). Here we report it for the first time for the Czech fauna. Based on an unpublished material from the Moravian Museum, Brno, it is more widespread in the country but has been partly misidentified in the past.

***Bactericera trigonica* Hodkinson, 1981**

(VU)

Material examined. Bylnice, railway station environs (27), 11.ix.1999, 1 ♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (84), 13.vii.1998, 1 ♂; 18.iv.2000, 1 ♀; both IM.

Distribution and frequency in the Bílé Karpaty PLA: Known from only two sites in the north-eastern and south-western parts of the area: an abandoned field and a dry grassland. **General distribution:** Southern parts of the western Palaearctic region. **Host plant:** *Daucus carota*. **Red List status:** Vulnerable.

Comments. *Bactericera trigonica* is a quite rare thermophilous species associated with dry ruderal sites in the Czech Republic. Its distribution in the country is, as far as known, restricted to southern Moravia where it perhaps reaches the northern limit of its distribution (LAUTERER 1991, 1993; MALENOVSKÝ *et al.* 2011).

***Eryngiofaga lautereri* Loginova, 1977**

(EN)

Published records. HUBÁČEK (1979): Hluk, Kobylí hlava NM (33) [as *Trioza bupleuri*].

Material examined. Kněždub, Čertoryje NNR (74, 75), 19.vi.1980, 1 ♂, PL.

Distribution and frequency in the Bílé Karpaty PLA: Known from two sites in the south-western part of the area (the identification of Hubáček's record of galls is hypothetical), not confirmed in recent years. **General distribution:** Central European

(Czech Republic, Germany, Slovakia). **Host plant:** *Bupleurum falcatum*. **Red List status:** Endangered.

Comments. *Eryngiofaga lautereri* is a generally rare species associated with dry grasslands and sunny forest margins. In the Czech Republic, it is known only from southern Moravia: the Pavlovské vrchy and Dunajovické kopce Hills, the environs of Hustopeče, Brno, and Tišnov, the Moravian Karst, and the valleys of the Jihlava and Oslava rivers (LAUTERER 1965, 1979, 1991, 1995; MALENOVSKÝ *et al.* 2011). Despite a common occurrence of its host plant in the south-western part of the Bílé Karpaty PLA (JONGEPIER & JONGEPIEROVÁ 2006, JONGEPIER & PECHANEC 2006), *E. lautereri* has not been collected there in the course of the recent intensive field surveys and may have become extremely rare or extinct in the area.

***Trichohermes walkeri* (Foerster, 1848)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (74).

Additional material examined. Valašské Klobouky, Na Nivách (8), 9.ix.1999, many ♂♂ ♀♀, IM. Bylnice, Na Stráži (25), 18.viii.2006, 7 ♂♂ 2 ♀♀, PK. Boršice u Blatnice, Boršický potok brook valley (37), 16.viii.1984, 7 ♂♂ 1 ♀, PL. Louka, Hloží NR (38), 7.ix.1998, 1 ♂, IM. Horní Němčí, Drahy NR (43), 10.ix.1998, many ♂♂ ♀♀, IM. Bánov, Skalky hill (47), 21.viii.1984, 2 ♂♂ 2 ♀♀, PL. Strání, Hrnčárky NM and Žabka reservoir surroundings (54), 10.ix.1998, many ♂♂ ♀♀, IM. Radějov, village (70), 14.viii.1977, 2 ♂♂, RJ. Malá Vrbka, Výzkum hill (76), 16.viii.2000, 1 ♂, PK. Velká nad Veličkou, Zahrady pod Hájem NNR (84), 27.vii.2000, 2 ♂♂; 9.–10.ix.2000, 6 ♂♂ ♀♀; all IM. Javorník, Jazevčí NNR (92), 10.ix.2000, 5 ♂♂ ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common throughout the area; in scrub and along forest margins. **General distribution:** Europe, Caucasus, Central Asia. **Host plant:** *Rhamnus cathartica*. **Red List status:** –.

***Trioza abdominalis* Flor, 1861**

(VU)

Material examined. Poteč, Ploščiny NR (10), 4.vii.1999, 2 ♀♀; 1.vi.2002, 1 ♂; all IM. Nedašov, Kaňúr hill and Hrušová dolina valley (17), 3.vii.1999, 1 ♀, IM. Bylnice, Na Stráži (25), 16.vi.2006, 1 ♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 21.v.1999, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Restricted to pastures and meadows in the north-eastern part of the area, quite rare. **General distribution:** Europe, Siberia, Central Asia. **Host plants:** *Achillea* spp. **Red List status:** Vulnerable.

Comments. In the Czech Republic, *T. abdominalis* is a rare psychrophilous species occurring locally in some submontane regions and mountains. Published records come from the Bohemian-Moravian Highlands, the Nížký Jeseník Hills, the Doupovské hory Mts., and the Jizerské hory Mts. (VONDRÁČEK 1957; LAUTERER 1963, 2001).

***Trioza agrophila* Löw, 1888**

(EX)

Published records. HUBÁČEK (1979): Hluk, Kobyli hlava NM (33).

Distribution and frequency in the Bílé Karpaty PLA: Cited here based on a record of galls collected in 1966–1976 at a single site situated outside but close to the administrative borders of the area; not confirmed in recent years. **General distribution:** Northern, central and eastern Europe, Caucasus. **Host plant:** *Cirsium arvense*. **Red List status:** Regionally extinct in the Czech Republic.

Comments. Based on information published in literature (concerning particularly records of galls), *T. agrophila* used to be a widespread and common species throughout the Czech Republic (BAYER 1909, 1914; BAUDYŠ 1916, 1926a,b,c, 1944, 1954, 1960, 1962, 1964, 1965, 1966c, 1967a, 1969; VONDRÁČEK 1957; LAUTERER 1991) but disappeared after a period of massive applications of pesticides in the Czech agriculture in the second half of the 20th century (LAUTERER 1998). The last specimens documented in the collections were collected in 1968 (unpublished data from the Moravian Museum, Brno) and the species is currently considered as extinct in the country (LAUTERER & MALENOVSKÝ 2005).

Trioza anthrisci Burckhardt, 1886

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Radějovka brook valley (75).

Additional material examined. Valašské Klobouky, Brumovská street (3), 19.v.1999, 1 ♂, IM. Valašské Klobouky, U Rybníků (4), 22.v.1999, 1 ♂ 1 ♀, IM. Valašské Klobouky, Brumovka brook valley (7), 19.v.1999, 1 ♂, IM. Valašské Klobouky, Bílé potoky NR (11), 19.v.1999, 5 ♂♂ 10 ♀♀, IM. Horní Němčí, village (39), 15.v.1998, 1 ♀, IM. Starý Hrozenkov, Hrozenkovské terasy (64), 2.vii.2007, 1 ♂, IM. Výškovec, Výškovecké Bošačky (65), 21.v.2005, 1 ♂, IM. Javorník, Machová NR (97), 9.vii.1998, 1 ♂ 3 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area but quite uncommon; usually in quite eutrophicated grassland along roads and paths, in floodplains along brooks or at pasture margins; in most places probably associated with *Anthriscus silvestris* but once collected also on *Chaerophyllum hirsutum* (Valašské Klobouky, Bílé potoky NR). **General distribution:** Eurosiberian. **Host plants:** *Anthriscus silvestris* and some other Apiaceae (*Angelica silvestris*, *Heracleum sphondylium*, *Peucedanum ostruthium*, and *Pastinaca sativa*). **Red List status:** –.

Trioza apicalis Foerster, 1848

Material examined. Nedašov, Jalovcová stráž NR (15), 10.ix.1999, 1 ♀; 5.x.2004, 1 ♀; both IM. Bylnice, railway station environs (27), 11.ix.1999, 2 ♀♀, IM. Lopeník, Lopenické sedlo (59), 25.ix.2004, 1 ♀, IM. Suchov, Suchovské Mlýny (85), 23.vi.2004, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in the area but quite rare in pastures and abandoned fields. **General distribution:** Eurosiberian. **Host plants:** *Daucus carota* and some other Apiaceae (e.g. *Petroselinum crispum* and *Carum carvi*). **Red List status:** –.

Comments. *Trioza apicalis* is a serious pest of cultivated carrots in northern and occasionally also in central Europe (LÁSKA 1974, 2011)

Trioza cerastii* (Linnaeus, 1758)*(VU)**

Published records. BAUDYŠ (1966b): common on *Cerastium holosteoides* subsp. *triviale* in the environs of Bojkovice (20), Nivnice (34a) and Bánov (47; precise locations of all collecting sites unknown) [as *Trioza ceraszini*, misspelled].

Material examined. Valašské Klobouky, Dobšená NM (6), 2.vii.1999, 1 ♀, IM. Poteč, Ploštiny NR (10), 4.vii.1999, 2 ♀♀; 13.ix.1999, 1 ♂; 1.vi.2002, 1 ♀; all IM. Nedašov, Jalovcová stráž NR (15), 12.vii.2006, 1 ♂, IM. Nedašov, Kaňúr hill and Hrušová dolina valley (17), 3.vii.1999, 1 ♂ 1 ♀, IM. Brumov, Kloboucká street (24), 30.vi.2004, 1 ♂, IM. Lopeník, U Zvonice NM (58), 27.vi.2004, 1 ♀, IM. Lopeník, Lopenické sedlo (59), 27.vi.2004, 7 ♂♂ 12 ♀♀; 25.ix.2004, 1 ♀; all IM. Vyškovec, Vyškovecké Bošačky (65), 27.vi.2004, 1 ♀, IM. Vyškovec, Pod Hřibovňou NM (66), 28.vi.2004, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Restricted to pastures and meadows in the cooler north-eastern and central parts of the area, uncommon. **General distribution:** Eurosiberian. **Host plants:** *Cerastium* spp. **Red List status:** Vulnerable.

Comments. *Trioza cerastii* is probably a widespread species in the Czech Republic, at least in the highlands, submontane regions and mountains; most previously published records are based on galls (e.g. BAYER 1909, 1914; BAUDYŠ 1926a,b, 1954, 1966b; VONDRÁČEK 1957; MALENOVSKÝ & LAUTERER 1997).

***Trioza chenopodii* Reuter, 1876**

Published records. LAUTERER (1982): Bojkovice, town (20).

Additional material examined. Nedašov, Pod Cigánem NM (30), 28.vii.2005, 1 ♂, IM. Boršice u Blatnice, Boršický potok brook valley (37), 16.viii.1984, 1 ♂ 4 ♀♀, PL. Horní Němčí, Drahy NR (43), 21.vii.2002, 1 ♀, IM. Bánov, Skalky hill (47), 21.viii.1984, 4 ♂♂ 2 ♀♀, PL. Komňa, Nový Dvůr (48), 21.viii.1984, 3 ♂♂ 1 ♀, PL. Strání, Důbrava hill (57), 7.vii.1980, 1 ♂ 2 ♀♀, PL. Malá Vrbka, Výzkum hill (76), 16.xi.1999–4.iii.2000, 1 ♀; 4.iii.–8.iv.2000, 4 ♀♀; all pitfall traps, PBz; 17.iv.2000, 2 ♂♂; 27.vii.2000, 1 ♀; 2.v.2001, 1 ♀; 22.vi.2001, 1 ♀; 28.vii.2001, 1 ♂; all IM & PK.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in ruderal vegetation throughout the area. **General distribution:** Palaearctic, introduced into North and South America. **Host plants:** *Chenopodium* spp., *Atriplex* spp. and some other Chenopodioideae. **Red List status:** –.

Trioza chrysanthemi* Löw, 1878*(EN)****(Fig. 9)**

Material examined. Valašské Klobouky, Javorůvky NR (5), 22.v.1999, 1 ♀, IM. Nedašov, Jalovcová stráž NR (15), 20.v.1999, 1 ♀, IM. Nedašov, Kaňúr hill and Hrušová dolina valley (17), 20.v.1999, 1 ♀, IM. Horní Němčí, Hornoněmčanský háj forest (40), 10.ix.2002, 1 ♂, IM. Lopeník, Lopenické sedlo (59), 25.ix.2004, 1 ♀, IM. Starý Hrozenkov, Skalka quarry (63), 22.ix.2007, 1 ♀, IM. Vyškovec, Vyškovecké Bošačky (65), 27.vi.2004, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Restricted to the cooler north-eastern and central parts of the area with one isolated finding near Horní Němčí in the south-west; quite rare in pastures and meadows. **General distribution:** Central, northern, and eastern Europe. **Host plants:** *Leucanthemum* spp. **Red List status:** Endangered.

Comments. *Trioza chrysanthemi* is a rare species in the Czech Republic that seems to be restricted to species-rich grasslands in submontane and mountain regions (including

subalpine grassland). It has been recorded so far only from a few sites in the Jeseníky and Javorníky Mts. in northern and eastern Moravia and perhaps (based on a record of galls) also in the Krkonoše Mts. in north-eastern Bohemia (BAUDYŠ 1954, 1967b; LAUTERER 1963; MALENOVSKÝ & LAUTERER 1997).

Trioza cirsii Löw, 1881

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (74, 75).

Additional material examined. Valašské Klobouky, Javorůvky NR (5), 22.v.1999, 26 ♂♂ 32 ♀♀, IM; 2.vii.1999, 4 ♂♂ 3 ♀♀, IM; 11.ix.1999, 1 ♀, IM; 24.viii.2002, 1 ♀, PK. Valašské Klobouky, Dobšená NM (6), 22.v.1999, 1 ♂ 3 ♀♀, IM. Valašské Klobouky, Brumovka brook valley (7), 19.v.1999, 1 ♂, IM. Valašské Klobouky, Bílé potoky NR (11), 19.v.1999, 1 ♂ 5 ♀♀; 16.vi.2006, 2 ♂♂ 1 ♀; 11.vii.2006, many ♂♂ ♀♀; all IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Plánava hill (28), 1.vii.1999, 1 ♂ 1 ♀, PK. Suchov, Kazivec brook valley (42), 15.v.1998, 1 ♂ 2 ♀♀, IM. Horní Němčí, Drahy NR (43), 10.ix.2002, 1 ♂, IM. Vápenice, Trstná brook valley (50), 6.vii.2001, 1 ♂, IM & PK. Lopeník, U Zvonice NM (58), 25.ix.2004, 1 ♀, IM. Lopeník, Lopenické sedlo (59), 8.v.2004, 1 ♂ 1 ♀, IM. Výškovec, Pod Hřibovňou NM (66), 25.ix.2004, 1 ♀, PK. Radějov, village (70), 14.viii.1977, 1 ♂ 4 ♀♀, RJ. Malá Vrbka, Výzkum hill (76), 2.v.2001, 2 ♂♂ 2 ♀♀; 28.vii.2001, 1 ♂ 1 ♀; all IM & PK. Nová Lhota, Vápenky, Porážky NNR (95), 15.vii.1998, many ♂♂ ♀♀; 28.x.2011, 2 ♂♂ 3 ♀♀; all IM. Javorník, Machová NR (97), 14.v.1998, many ♂♂ ♀♀; 9.vii.1998, 2 ♂♂ 4 ♀♀; 8.v.2000, 1 ♂ 4 ♀♀; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area; quite common in wet meadows, rarely also at ruderal sites. **General distribution:** European. **Host plants:** *Cirsium* spp. (*C. oleraceum*, *C. palustre*, *C. heterophyllum*, *C. arvense*, and *C. erisithales*). **Red List status:** –.

Trioza dichroa Scott, 1879

Material examined. Komňa, Nový Dvůr (48), 21.viii.1984, 11 ♂♂ 10 ♀♀, PL.

Distribution and frequency in the Bílé Karpaty PLA: Known from only one finding on ruderal vegetation in the central part of the area. **General distribution:** Western Palearctic. **Host plant:** *Atriplex tatarica*. **Red List status:** –.

Trioza dispar Löw, 1878

(VU)

(Fig. 10)

Material examined. Poteč, Ploščiny NR (10), 13.ix.1999, 2 ♀♀, IM. Valašské Klobouky, Bílé potoky NR (11), 14.viii.2006, 1 ♀, PK. Nedašov, Jalovcová stráň NR (15), 3.vii.1999, 3 ♂♂ 9 ♀♀; 10.ix.1999, 9 ♂♂ 16 ♀♀; 5.x.2004, 1 ♂; 28.vii.2005, 1 ♀, 12.vii.2006, 3 ♀♀; all IM; 16.viii.2006, 3 ♀♀, PK. Nedašov, Kaňoury NM (16), 12.vii.2006, 1 ♂, IM. Nedašov, Pod Cigánem NM (30), 30.vi.2004, 3 ♂♂ 3 ♀♀; 5.x.2004, 1 ♂; all IM. Starý Hrozenkov, Skalka quarry (63), 8.viii.2007, 4 ♀♀, IM. Starý Hrozenkov, Hrozenkovské terasy (64), 2.vii.2007, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Restricted to the relatively cool north-eastern and central parts of the area, locally common there, particularly in pastures. **General distribution:** Eurosiberian. **Host plants:** *Taraxacum* spp., perhaps also *Leontodon hispidus*. **Red List status:** Vulnerable.

Comments. In the Czech Republic, *Trioza dispar* has been mostly found associated with *Taraxacum* sect. *Ruderalia* as locally common in a few submontane and mountain

regions (the Javorníky Mts., Králický Sněžník Mts., Rychlebské hory Mts., Jeseníky Mts. and Drahanská vrchovina Highlands in eastern, central and northern Moravia, and the Šumava Mts. in southern Bohemia; BAUDYŠ 1954, MALENOVSKÝ & LAUTERER 1997, LAUTERER & MALENOVSKÝ 2002, MALENOVSKÝ *et al.* 2008, and unpublished material from the Moravian Museum, Brno).

***Trioza flavipennis* Foerster, 1848**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (74).

Additional material examined. Valašské Klobouky, U Rybníků (4), 22.v.1999, 1 ♀; 10.ix.1999, 2 ♂♂; all IM. Valašské Klobouky, Javorůvky NR (5), 11.ix.1999, 1 ♀, IM. Valašské Klobouky, Brumovka brook valley (7), 19.v.1999, 1 ♀, IM. Valašské Klobouky, Na Nivách (8), 9.ix.1999, 1 ♀, IM. Valašské Klobouky, Bílé potoky NR (11), 19.v.1999, 1 ♂, IM. Nedašov, Kaňúr hill and Hrušová dolina valley (17), 20.v.1999, 1 ♂ 1 ♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 21.v.1999, 1 ♀, IM. Svatý Štěpán, Nadřičí (31), 21.v.1999, 1 ♂ 2 ♀♀, IM. Horní Němčí, Horní kopec hill (45), 23.v.2002, 1 ♀ and galls, IM. Radějov, Lučina (73), 7.v.2000, 1 ♂ and galls, IM. Suchov, Suchovské Mlýny (85), 6.v.2000, 2 ♂♂ 3 ♀♀, IM. Strání, Javorina NNR (102), 29.x.2011, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread and common throughout the area; usually in quite eutrophicated sites, e.g. along brooks and roads. **General distribution:** European. **Host plant:** *Aegopodium podagraria*. **Red List status:** –.

***Trioza foersteri* Meyer-Dür, 1871**

Material examined. Návojná, Vrchy hill (12), 12.vii.2006, larvae and galls, IM. Lopeník, Mikulčín vrch hill (60), 24.vii.2005, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Recorded only from two sites in the north-eastern and central parts of the area; in beech and spruce forest undergrowth. **General distribution:** Central and southern Europe, North Africa. **Host plant:** *Mycelis muralis*. **Red List status:** –.

***Trioza galii* Foerster, 1848**

Material examined. Valašské Klobouky, U Rybníků (4), 22.v.1999, 1 ♀; 10.ix.1999, 1 ♂; both IM. Bylnice, Bylničky (26), 24.vi.1982, 1 ♂, PL. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 1 ♀, IM. Horní Němčí, Drahy NR (43), 30.vi.2001, 1 ♀, IM. Bánov, Skalky hill (47), 21.viii.1984, 2 ♂♂ 1 ♀, PL. Komňa, Nový Dvůr (48), 21.viii.1984, 2 ♂♂ 1 ♀, PL.

Distribution and frequency in the Bílé Karpaty PLA: Perhaps widespread throughout the area, although not documented from its extreme south-western part; uncommon in various, wet to dry, open grassland sites (meadows and pastures, a shore of a pond, etc.). **General distribution:** Western Palaearctic and Central Asia (BURCKHARDT & LAUTERER 2006). **Host plants:** *Galium* spp. (*G. album*, *G. aparine*, and *G. palustre*) and *Asperula cynanchica*. **Red List status:** –.

Comments. A revision of previously published data on *T. galii* from the Czech Republic is needed because of the involvement of closely-related *T. velutina* (see BURCKHARDT &

LAUTERER 2006). Based on recently published data, *T. galii* is known from both Bohemia and Moravia (LAUTERER 2001, MALENOVSKÝ 2006, MALENOVSKÝ *et al.* 2011). The record from Čertoryje NNR (MALENOVSKÝ 2001) belongs to *T. velutina*.

Trioza proxima Flor, 1861

(VU)

Published records. BAYER (1909, 1914): Pozlovice, towards Horní Lhota (1a). LAUTERER & MALENOVSKÝ (2002): Nedašov, Jalovcová stráň NR (15); Nedašov, Kaňúr hill and Hrušová dolina valley (17).

Additional material examined. Nedašov, Jalovcová stráň NR (15), 25.vi.2002, 1 ♀, PK; 12.vii.2006, 1 ♂ 3 ♀♀, IM; 16.viii.2006, 1 ♂, PK.

Distribution and frequency in the Bílé Karpaty PLA: Recently recorded only from the north-easternmost part of the area; found there on *Hieracium pilosella* and as overwintering specimens on *Juniperus communis* at two small sites with sunny grassland on acidic soils. **General distribution:** Europe (except Scandinavia), Caucasus. **Host plants:** *Hieracium* spp. **Red List status:** Vulnerable.

Comments. *Trioza proxima* is currently probably quite rare in the Czech Republic and occurs only locally at sunny dry sites in highlands. Besides the Bílé Karpaty Mts., there have been recent records from the Bohemian-Moravian Highlands and several historical records based on galls (reviewed in LAUTERER & MALENOVSKÝ 2002).

Trioza remota Foerster, 1848

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (74, 75).

Additional material examined. Nedašov, Jalovcová stráň NR (15), 5.x.2004, 1 ♂, IM. Lopeník, U Zvonice NM (58), 25.ix.2004, 2 ♂♂, IM. Žitková, Hutě NR (61), 11.iv.–9.v.2007, 1 ♀, MT, PC, JJ & JM. Velká nad Veličkou, village (83), 22.x.2000, 1 ♂ 4 ♀♀, IM. Javorník, Jazevčí NNR (92), 6.v.2000, 2 ♀♀, IM. Strání, Javorina NNR (102), 29.x.2011, 16 ♂♂ 25 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area but quite rarely documented; associated with various habitats. Overwintering specimens were found also at the highest elevations: on the top of Mt Velká Javořina (ca. 950 m). **General distribution:** Palaearctic. **Host plants:** *Quercus* spp. (*Q. petraea*, *Q. robur*, and *Q. pubescens*). **Red List status:** –.

Trioza rhamni (Schrank, 1801)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (74).

Additional material examined. Valašské Klobouky, Dobšená NM (6), 2.vii.1999, 1 ♀, IM. Bylnice, Na Stráži (25), 16.vi.2006, 1 ♀; 11.vii.2006, 1 ♂; both IM. Horní Němčí, Drahy NR (43), 15.v.1998, several ♂♂ ♀♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (54), 10.ix.1998, 1 ♀, IM. Malá Vrbka, Výzkum hill (76), 2.v.2001, 1 ♀, IM & PK. Velká nad Veličkou, Zahrady pod Hájem NNR (84), 14.v.1998, 1 ♀, IM. Suchov, Suchovské Mlýny (85), 29.vi.2001, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, even if quite rarely documented; associated with forest margins and scrub scattered in meadows and pastures. **General distribution:** Europe, Caucasus, and Central Asia. **Host plant:** *Rhamnus cathartica*. **Red List status:** –.

***Trioza rotundata* Flor, 1861**

Material examined. Valašské Klobouky, Javorůvky NR (5), 22.v.1999, 1 ♀; 11.ix.1999, 1 ♀; both IM. Nedašov, Kaňur hill and Hrušová dolina valley (17), 20.v.1999, 2 ♂♂ 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Found only in shaded spring fens with *Cardamine amara* in the relatively cooler, north-easternmost part of the area: rare. **General distribution:** Europe and possibly also Caucasus (BURCKHARDT & LAUTERER 2002). **Host plants:** *Cardamine amara* and perhaps other *Cardamine* spp. **Red List status:** –.

***Trioza schrankii* Flor, 1861**

(EN)

(Fig. 11)

Published records. LAUTERER & MALENOVSKÝ (2002): Valašské Klobouky, Brumovka brook valley (7); Valašské Klobouky, Javorůvky NR (5); Nedašov, Kaňoury NM (16); Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28).

Additional material examined. Valašské Klobouky, U Rybníků (4), 10.ix.1999, 1 ♀, IM. Nedašov, Kaňoury NM (16), 17.vi.2006, 2 ♀♀; 12.vii.2006, 2 ♀♀; all IM. Lopeník, U Zvonice NM (58), 8.v.2004, 1 ♂ 7 ♀♀, IM; 27.vi.2004, 1 ♀, IM; 18.viii.2004, 2 ♀♀, PK; 21.v.2005, 5 ♂♂ 18 ♀♀, IM; 24.vii.2005, 7 ♂♂ 10 ♀♀, IM; 3.ix.2005, 1 ♂ 3 ♀♀, PK. Vyškovec, Pod Hřibovňou NM (66), 8.v.2004, 2 ♂♂ 1 ♀; 21.v.2005, 1 ♂ 1 ♀; all IM. Vyškovec, Ve Vlčí NR (67), 22.v.2005, 2 ♀♀, IM. Nová Lhota, Vápenky, Porážky NNR (95), 28.x.2011, 1 ♂ 3 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Locally common in mesic, species-rich meadows and along forest margins in the north-eastern and central parts of the area but apparently absent from the warmest south-western part despite the occurrence of its host plant. **General distribution:** Mountains of central, south-western and eastern Europe (LAUTERER & MALENOVSKÝ 2002). **Host plant:** *Astrantia major*. **Red List status:** Endangered.

Comments. In the Czech Republic, *T. schrankii* has been recorded so far only locally in a few submontane areas: the Bílé Karpaty Mts. and Hostýnské vrchy Hills in eastern Moravia and the Blanský les Mts. in southern Bohemia (LAUTERER & MALENOVSKÝ 2002).

***Trioza senecionis* (Scopoli, 1763)**

Material examined. Valašské Klobouky, Javorůvky NR (5), 22.v.1999, 5 ♂♂ 7 ♀♀, IM. Valašské Klobouky, Brumovka brook valley (7), 19.v.1999, 2 ♂♂ 4 ♀♀, IM. Valašské Klobouky, Bílé potoky NR (11), 19.v.1999, 8 ♂♂ 5 ♀♀, IM. Nedašov, Kaňur hill and Hrušová dolina valley (17), 20.v.1999, 6 ♂♂ 7 ♀♀, IM. Svatý Štěpán, Nadřičí (31), 21.v.1999, 1 ♀, IM. Strání, Javorina NNR (102), 29.x.2011, 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Recorded only from the cool, north-eastern part of the area and Mt Velká Javořina in the south-west; locally common in beech and spruce forest undergrowth. **General distribution:** Central and eastern Europe, Caucasus. **Host plant:** *Senecio ovatus*. **Red List status:** –.

***Trioza urticae* (Linnaeus, 1758)**

Published records. BAUDYŠ (1966b): Bojkovice, town (20). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (74, 75).

Additional material examined. Valašské Klobouky, Brumovská street (3), 19.v.1999, 4 ♀♀, IM. Valašské Klobouky, U Rybníků (4), 22.v.1999, 2 ♂♂ 2 ♀♀; 10.ix.1999, 1 ♀; all IM. Valašské Klobouky, Javorůvky NR (5), 22.v.1999, 1 ♀; 2.vii.1999, 2 ♂♂; all IM. Valašské Klobouky, Dobšená NM (6), 22.v.1999, 1 ♂; 2.vii.1999, 8 ♂♂ 3 ♀♀; all IM. Valašské Klobouky, Brumovka brook valley (7), 19.v.1999, 1 ♂ 1 ♀, IM. Poteč, Ploščíny NR (10), 4.vii.1999, 6 ♂♂ 5 ♀♀, IM; 1.vi.2002, 3 ♀♀, IM; 17.viii.2006, 1 ♂ 1 ♀, PK. Valašské Klobouky, Bílé potoky NR (11), 19.v.1999, 1 ♀, IM; 30.vi.1999, 1 ♂ 14 ♀♀, PK; 16.vi.2006, 1 ♀, IM; 11.vii.2006, 3 ♀♀, IM. Nedašov, village (14), 3.vii.1999, 1 ♂, IM. Nedašov, Jalovcová stráž NR (15), 20.v.1999, 1 ♂ 5 ♀♀; 3.vii.1999, 5 ♂♂ 1 ♀; all IM. Nedašov, Kaňur hill and Hrušová dolina valley (17), 20.v.1999, 2 ♂♂ 1 ♀, IM. Bylnice, Bylničky (26), 24.vi.1982, 1 ♂ 1 ♀, PL. Bylnice, railway station environs (27), 1.vii.1999, 2 ♂♂ 8 ♀♀, MH & PK; 11.ix.1999, 5 ♀♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 21.v.1999, 1 ♀, IM. Svatý Štěpán, Nadřičí (31), 21.v.1999, 2 ♀♀, IM. Sidonie, Vlárský průsmyk pass (32), 12.ix.1999, 1 ♀, IM. Boršice u Blatnice, Boršický potok brook valley (37), 16.viii.1984, 2 ♂♂, PL. Korytná, Březí (41), 5.vii.2001, 27 ♂♂ 20 ♀♀, IM. Suchov, Kazivec brook valley (42), 15.v.1998, 6 ♀♀, IM. Horní Němčí, Drahy NR (43), 30.vi.2001, 1 ♂ 1 ♀, IM. Horní Němčí, Vinohrádky (44), 10.ix.2002, 1 ♀, IM. Horní Němčí, Lesná hill (46), 15.v.1998, 2 ♀♀, IM. Komňa, Lom Rasová NM (49), 5.vii.2001, 1 ♂, IM. Vápenice, Trstná brook valley (50), 6.vii.2001, 2 ♂♂ 1 ♀, IM & PK. Korytná, Lubná pond environs (52), 5.vii.2001, 11 ♂♂ 3 ♀♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (54), 10.vii.1998, 1 ♀; 16.v.1998, 2 ♂♂ 2 ♀♀; all IM. Strání, Obecnice hill (55), 2.vii.2001, 278 ♂♂ 275 ♀♀; 23.v.2002, 2 ♀♀; all IM & PK. Strání, Důbrava hill (57), 7.vii.1980, 1 ♀, PL. Lopeník, U Zvonice NM (58), 27.vi.2004, 1 ♀, IM. Lopeník, Lopenické sedlo (59), 25.ix.2004, 1 ♀, IM. Lopeník, Mikulčín vrch hill (60), 25.ix.2004, 4 ♀♀, IM. Starý Hrozenkov, Skalka quarry (63), 2.vii.2007, 1 ♀, IM. Starý Hrozenkov, Hrozenkovské terasy (64), 2.vii.2007, 12 ♂♂ 7 ♀♀; 8.viii.2007, 2 ♂♂ 2 ♀♀; all IM. Vyškovec, Vyškovceké Bošačky (65), 27.vi.2004, 2 ♂♂ 2 ♀♀, IM. Radějov, Žerotín NM (68), 11.vii.1998, 1 ♂ 3 ♀♀, IM. Radějov, Lučina (73), 14.vii.1998, 1 ♂; 17.vi.2000, 3 ♂♂ 5 ♀♀; 28.vii.2000, 1 ♂ 2 ♀♀; 22.vi.2001, 3 ♂♂ 8 ♀♀; all IM & PK. Kněždub, Čertoryje NNR, Járkovec brook valley (74), 22.vi.2008, 1 ♂, KD & KF. Malá Vrbka, Výzkum hill (76), 17.iv.2000, 1 ♂; 18.vi.2000, 2 ♂♂ 1 ♀; 2.v.2001, 1 ♀; 22.vi.2001, 1 ♀; all IM & PK. Radějov, Veselka hill (81), 11.vii.1998, 1 ♂ 3 ♀♀, IM. Radějov, Měsíční údolí valley (80), 8.ix.1998, 1 ♂ 4 ♀♀, IM. Radějov, Kútky NR (82), 2.vi.1979, 1 ♀, PL. Velká nad Veličkou, village (83), 22.x.2000, 4 ♂♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (84), 18.iv.2000, 3 ♂♂ 1 ♀; 27.vii.2000, 1 ♀; all IM. Suchov, Suchovské Mlýny (85), 6.v.2000, 1 ♀; 29.vi.2001, 8 ♂♂ 8 ♀♀; all IM. Javorník, loampit W of village (91), 24.v.2002, 9 ♀♀, IM. Javorník, Jazevčí NNR (92), 15.vii.1998, 2 ♂♂ 2 ♀♀; 6.v.2000, 5 ♂♂ 13 ♀♀; 19.vi.2000, 9 ♂♂ 6 ♀♀; 10.ix.2000, 1 ♂ 1 ♀; all IM. Javorník, Petruchovy Mlýny (93), 23.ix.2001, 1 ♀, IM. Nová Lhota, Vápenky, Porážky NNR (95), 28.x.2011, 1 ♂ 2 ♀♀, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (96), 12.vii.1998, 8 ♂♂ 2 ♀♀, IM. Javorník, Machová NR (97), 14.v.1998, many ♂♂ ♀♀; 9.vii.1998, 8 ♂♂ 3 ♀♀; 8.v.2000, 2 ♂♂ 9 ♀♀; all IM. Strání, Záhumenice NM (99), 2.vii.2001, 3 ♂♂ 3 ♀♀, IM & PK; 23.v.2002, 1 ♂, PK. Strání, Javořina NNR (102), 17.viii.1979, 1 ♂, RJ; 4.vii.2001, 22 ♂♂ 18 ♀♀; 29.x.2011, 9 ♂♂ 18 ♀♀; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in various habitats (e.g. pastures, ruderal sites, forests, in the vicinity of standing and running water, etc.) throughout the area, from the lowest to the highest elevations.

General distribution: Palaearctic. **Host plants:** *Urtica dioica* and *U. urens*. **Red List status:** —.

***Trioza velutina* Foerster, 1848**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (74, 75) [as *Trioza galii*, misidentified].

Material examined. Valašské Klobouky, Brumovka brook valley (7), 19.v.1999, 1 ♀, IM. Nedašov, Jalovcová stráž NR (15), 20.v.1999, 6 ♂♂ 7 ♀♀; 28.v.2005, 3 ♂♂ 8 ♀♀; 28.vii.2005, 2 ♂♂ 1 ♀; 6.ix.2005, 1 ♂; all IM.

Nedašov, Kaňoury NM (16), 17.vi.2006, 1 ♀, IM; 16.viii.2006, 1 ♂ 1 ♀, PK. Brumov, Kloboucká street (24), 28.v.2005, 2 ♀♀, IM. Bylnice, Na Stráži (25), 16.vi.2006, 1 ♀, IM. Bylnice, Bylničky (26), 24.vi.1982, 1 ♂ 2 ♀♀, PL. Blatnička, Milejovské louky meadows (35), 24.v.2009, 5 ♀♀; 16.viii.2009, 1 ♀; all PB. Horní Němčí, Drahy NR (43), 15.v.1998, 1 ♀, IM; 23.v.2002, 2 ♀♀, IM & PK. Starý Hrozenkov, Skalka quarry (63), 22.ix.2007, 1 ♀, IM. Kněždub, Čertoryje NNR, Járkovec brook valley (74), 6.v.2000, 1 ♂ 1 ♀, IM; 2.vi.2008, 1 ♀, IM; 12.viii.2008, 1 ♀, KD & KF; 10.ix.2008, 1 ♀, IM. Kněždub, Čertoryje NNR (74, 75), 19.vi.1980, 1 ♀, PL. Malá Vrbka, Výzkum hill (76), 2.v.2001, 1 ♂ 1 ♀; 28.vii.2001, 1 ♂; all IM & PK. Radějov, village (70), 14.viii.1977, 2 ♂♂, RJ. Radějov, Měsíční údolí valley (80), 8.ix.1998, 1 ♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (84), 27.vii.2000, 1 ♀, IM. Suchov, Suchovské Mlýny (85), 16.viii.2004, 1 ♀, PK; 26.v.2005, 1 ♂ 4 ♀♀, IM; 27.vii.2005, 5 ♂♂, IM. Suchov, Trnovský Mlýn (86), 26.v.2005, 1 ♂, IM. Javorník, Jazevčí NNR (92), 6.v.2000, 3 ♀♀, IM. Javorník, Petruchovy Mlýny (93), 3.v.2001, 1 ♀; 17.vii.2002, 1 ♀; both IM. Javorník, Machová NR (97), 14.v.1998, several ♂♂ ♀♀; 8.v.2000, 2 ♀♀; all IM. Strání, Záhumenice NM (99), 24.v.2001, 5 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; in sunny, dry to mesic grassland (meadows, pastures, waysides, field balks, etc.). **General distribution:** Probably Palaearctic but this has to be checked (BURCKHARDT & LAUTERER 2006). **Host plants:** *Galium* spp. **Red List status:** –.

Comments. *Trioza velutina* was partly confused with *T. galii* in the past, so previous Czech records should be revised after BURCKHARDT & LAUTERER (2006). The species is, however, apparently widespread and fairly common in the Czech Republic (LAUTERER 2001, MALENOVSKÝ 2006, MALENOVSKÝ *et al.* 2011).

Discussion and conclusions

A total of 85 species of jumping plant-lice has been recorded to date from the Bílé Karpaty PLA and a few closely adjacent localities. The fauna of this region may be characterised as species-rich as it comprises 65% of all Psylloidea species known to occur in the Czech Republic. The number of species recorded in the Bílé Karpaty PLA also appears relatively high in comparison with three other areas in the Czech Republic where the fauna of Psylloidea has been the subject of detailed faunistic surveys: the Pálava Biosphere Reserve in its extended concept (65 species of Psylloidea, listed by LAUTERER 1995), the Jizerské hory Mts. (40 species; LAUTERER 2001), and the Kokořínsko Protected Landscape Area (41 species; MALENOVSKÝ 2006).

As well as many widely distributed and generally common species, the jumping plant-lice fauna of the Bílé Karpaty PLA includes several species noteworthy from biogeographical and conservationist viewpoints. Three of them, *Bactericera lyrata*, *B. substriola* and *Cacopsylla albipes*, are recorded here for the Czech Republic for the first time. *Bactericera lyrata* has been known so far only from the type series recently described from Slovenia (SELJAK *et al.* 2008) and a few additional specimens from Hungary (P. Lauterer, unpublished). Due to its close resemblance to related species, it may have been overlooked or misidentified also in other countries. Based on the few data available so far, *B. lyrata* occurs sporadically in mesic to slightly wet ruderal habitats (e.g. along ditches, drainage channels, and field margins) at low elevations in relatively warm regions. *Bactericera substriola* is a member of a taxonomically critical group of

similar species as well (OSSIANNILSSON 1992, BURCKHARDT & LAUTERER 1997b). It is a willow-feeder that is probably more widespread than currently known from published data. In central Europe, *Cacopsylla albipes* is a rare species confined to sunny forest margins or open forests, often in hilly situations or mountains (LAUTERER 1965, CONCI *et al.* 1993). Sunny forest margins in the Bílé Karpaty PLA, particularly its south-western part, are also inhabited by *Cacopsylla viburni*, *Eryngiofaga lautereri* and *Livilla radiata*, remarkable thermophilous elements in the local fauna, that extend into the Bílé Karpaty from neighbouring outskirts of the Pannonian lowland (LAUTERER 1963, 1979, 1999; MALENOVSKÝ *et al.* 2011). In contrast, several orophilous and/or psychrophilous species occur in the central and north-eastern parts of the Bílé Karpaty Mts., where they are restricted to floristically rich pastures (*Craspedolepta sonchi*, *Trioza abdominalis*, *T. cerastii*, *T. chrysanthemi*, *T. dispar*, and *T. proxima*), meadow margins (*Trioza schrankii*), spring fens (*Aphalara calthae*, *Cacopsylla elegantula*, and *Trioza rotundata*), and forests (*Trioza foersteri* and *T. senecionis*). Some of these species are widely distributed in northern Europe and/or Asia and restricted mountain areas in central Europe (perhaps presenting a boreomontane distribution: e.g. *Cacopsylla elegantula*, *Trioza abdominalis*, *T. cerastii*, *T. chrysanthemi*, and *T. dispar*), or they occur in the mountain complexes of central and southern Europe (the Alps, Carpathians, Pyrenees, Balkans, etc.), without being reported from Scandinavia and northern Siberia (*Trioza schrankii* and *T. senecionis*) (GEGECHKORI & LOGINOVA 1990, OSSIANNILSSON 1992, CONCI *et al.* 1996, LAUTERER 1999, LAUTERER & MALENOVSKÝ 2002, LAŠTŮVKA *et al.* 2008, BURCKHARDT 2011). Other local species also include the acidophilous *Strophingia ericae*, found on a fragment of heathland (*Calluna vulgaris*) only in the environs of Nedašov at the north-easternmost tip of the Bílé Karpaty and *Craspedolepta nebulosa* and *C. subpunctata*, both of which were recorded on *Epilobium angustifolium* on the top of Mt Velká Javořina, the highest point in the Bílé Karpaty Mts. Climatic and/or historical factors rather than the indigenous flora may provide possible explanations for differences in the fauna of Psylloidea between the south-western and north-eastern parts of the Bílé Karpaty, as the host plants of most of the above-mentioned species are generally common and widely distributed in the area. However, at least for *Cacopsylla viburni*, *Strophingia ericae* and *Trioza rotundata*, restricted distributions of their respective host plants, *Viburnum lantana*, *Calluna vulgaris* and *Cardamine amara*, must be the main cause for the local occurrence of these psyllid species in the Bílé Karpaty (HÁJEK 1998, JONGEPIER & JONGEPIEROVÁ 2006, JONGEPIER & PECHANEC 2006). Three species, *Cacopsylla hippophaes*, *Livilla variegata* and *Psylla buxi* (all allochthonous in the fauna of the Czech Republic: MALENOVSKÝ & LAUTERER 2005a,b,c), occur in the Bílé Karpaty PLA only in villages, on ornamental woody plants in gardens, parks, cemeteries, around churches, etc. and do not spread into natural habitats.

Altogether 17 species recorded in the Bílé Karpaty PLA appear in the Red List of threatened invertebrates of the Czech Republic (LAUTERER & MALENOVSKÝ 2005), categorised as: extinct – *Trioza agrophila*; endangered – *Bactericera kratochvili*, *B. modesta*, *Cacopsylla abdominalis*, *Eryngiofaga lautereri*, *Livilla radiata*, *T. chrysanthemi*, *T. schrankii*; vulnerable – *Aphalara calthae*, *Bactericera trigonica*,

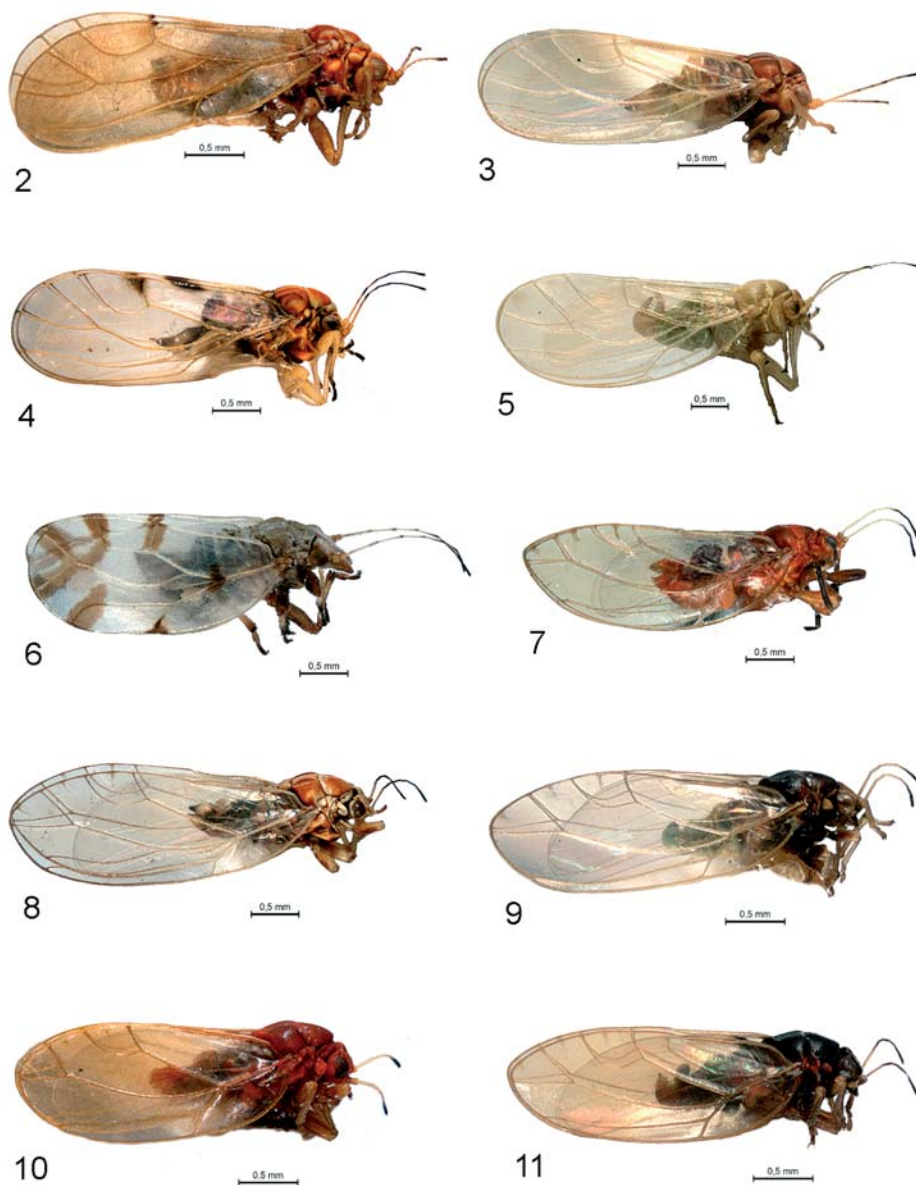
Cacopsylla viburni, *Craspedolepta sonchi*, *Trioza abdominalis*, *T. cerastii*, *T. dispar*, and *T. proxima*; and near-threatened – *Bactericera maura*. In addition to the species already mentioned in the preceding paragraph, *Bactericera modesta* is particularly noteworthy from a conservationist viewpoint as the Bílé Karpaty PLA probably represents one of the few remaining regions in the Czech Republic where it can still find relatively large areas of suitable habitats: non-intensively managed humid meadows with abundant populations of one of its host plants, *Sanguisorba officinalis*. *Trioza agrophila*, known from the close vicinity of the current Bílé Karpaty PLA (Kobylí hlava Hill near Hluk) based on past findings of galls (HUBÁČEK 1979) has not been confirmed in the area in recent years. *Trioza agrophila* also disappeared from other places in the Czech Republic after 1970 and has been assumed to be extinct in the whole country (LAUTERER 1998, LAUTERER & MALENOVSKÝ 2005).

The high diversity and the considerable number of threatened species of Psylloidea present in the area make the Bílé Karpaty PLA probably one of the most important regions for the conservation of this phytophagous insect group in the Czech Republic. As many species are dependent on the existence of species-rich grasslands, spring fens and forest margins, which need to be maintained by grazing, mowing and/or (selective) scrub removal, an active but sensible approach to the management of these habitats on the part of farmers and nature conservation authorities is essential to sustaining the rich regional jumping-plant louse fauna in the long term.

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Jumping plant-lice (Hemiptera: Psylloidea)



Figs 2–9. Some noteworthy jumping plant-lice species recorded in the Bílé Karpaty PLA. 2 – *Aphalara calthae* (Linnaeus); 3 – *Cacopsylla abdominalis* (Meyer-Dür); 4 – *Cacopsylla albipes* (Flor); 5 – *Cacopsylla viburni* (Löw); 6 – *Livilla radiata* (Foerster); 7 – *Bactericera lyrata* Seljak, Malenovský et Lauterer; 8 – *Bactericera substriola* Ossiannilsson; 9 – *Trioza chrysanthemi* Löw; 10 – *T. dispar* Löw; 11 – *T. schrankii* Flor. Scale bar 0.5 mm.

Souhrn

Mery (Hemiptera: Psylloidea) Chráněné krajinné oblasti a biosférické rezervace Bílé Karpaty.

Na základě faunistického průzkumu v letech 1998–2011, dřívějších sběrů uložených ve sbírkách Moravského zemského muzea v Brně a údajů publikovaných v literatuře bylo v Chráněné krajinné oblasti a biosférické rezervaci Bílé Karpaty a na několika blíže situovaných lokalitách dosud nalezeno celkem 85 druhů mer (Hemiptera: Sternorrhyncha: Psylloidea). Tři druhy, *Bactericera lyrata* Seljak, Malenovský et Lauterer, 2008, *Bactericera substriola* Ossiannilsson, 1992 a *Cacopsylla albipes* (Flor, 1861), jsou zde poprvé uvedeny z území České republiky. Faunu mer moravské strany Bílých Karpat lze charakterizovat jako výjimečně bohatou, jelikož zahrnuje 65 % ze všech druhů mer současně známých z České republiky. Kromě mnoha široce rozšířených a obecně hojných druhů bylo v Bílých Karpatech nalezeno i 17 druhů zařazených do Červeného seznamu ohrožených bezobratlých České republiky. Z pohledu ochrany přírody a biogeografie jsou obzvláště významné teplomilné druhy vázané na osluněné lesní okraje (*Cacopsylla albipes* a *C. viburni* (Löw, 1876)), případně suché trávníky (*Eryngiofaga lautereri* Loginova, 1977, *Livilla radiata* (Foerster, 1848)), vlhkomilné druhy obývající prameniště, vlhké louky a břehové porosty (*Aphalara calthae* (Linnaeus, 1761), *Bactericera maura* (Foerster, 1848), *B. modesta* (Foerster, 1848), *B. substriola*, *Cacopsylla abdominalis* (Meyer-Dür, 1871), *C. elegantula* (Zetterstedt, 1840)), ruderalní stanoviště (*Bactericera lyrata* and *B. trigonica* Hodkinson, 1981) a rovněž několik horských a chladnomilných druhů, které jsou zde převážně vázány na floristicky bohaté pastviny a louky ve střední a severovýchodní části Bílých Karpat (*Craspedolepta sonchi* (Foerster, 1848), *Trioza abdominalis* Flor, 1861, *T. cerastii* (Linnaeus, 1758), *T. chrysanthemi* Löw, 1878, *T. dispar* Löw, 1878, *T. proxima* Flor, 1861, *T. schrankii* Flor, 1861). Druh *Trioza agrophila* Löw, 1878 byl z oblasti uveden na základě nálezů hálek v 60.–70. letech 20. století a jeho výskyt se v současné době nepodařilo ověřit (je současně považován za vymizelý v celé ČR). Tři nepůvodní, zavlečené druhy, *Cacopsylla hippophaes* (Foerster, 1848), *Livilla variegata* (Löw, 1881) a *Psylla buxi* (Linnaeus, 1758), se v Bílých Karpatech vyskytují pouze na okrasných dřevinách ve vesnicích (parcích, zahradách, na hřbitvech apod.).

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Leafhoppers and planthoppers (Hemiptera: Auchenorrhyncha) of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic)

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MALENOVSKÝ I. & LAUTERER P. 2012: Leafhoppers and planthoppers (Hemiptera: Auchenorrhyncha) of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic). In: MALENOVSKÝ I., KMENT P. & KONVIČKA O. (eds.): Species inventories of selected insect groups in the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic). *Acta Musei Moraviae, Scientiae biologicae* (Brno) **96(2)** (2011): 155–322. – An account of leafhoppers and planthoppers (Hemiptera: Auchenorrhyncha) in the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (south-eastern Moravia, Czech Republic) is provided, based mainly on field surveys in 1998–2012, evaluation of previously collected museum material, and literature. A total of 352 species were recorded, making up 62% of the Auchenorrhyncha fauna of the Czech Republic. *Edwardsiana ulmiphagus* Wilson et Claridge, 1999 and *Idiocerus vicinus* Melichar, 1898 (both Cicadellidae) are reported here for the Czech Republic for the first time, as are *Muellerianella fairmairei* (Perris, 1857) (Delphacidae), *Fieberiella bohémica* Dlabola, 1965, *Macropsis gravesteini* Wagner, 1953, and *Zygina ordinaria* (Ribaut, 1936) (all Cicadellidae) for Moravia. A complete list of all records from the area is supplemented by short notes on the distribution, ecological requirements and the conservation status of each species. The regional Auchenorrhyncha fauna is briefly discussed from the viewpoints of nature conservation and biogeography. Altogether 86 species are classified in the Red List of threatened invertebrates of the Czech Republic, five of them as critically endangered: *Tettigometra leucophaea* (Preyssl, 1792) which has, however, probably become extinct in the Bílé Karpaty; *Criomorpha williamsi* China, 1939, *Delphax pulchellus* (Curtis, 1833), *Euides alpina* (Wagner, 1948), and *Zygina frauenfeldi* Lethierry, 1880. The Bílé Karpaty Protected Landscape Area is particularly remarkable for a species-rich Auchenorrhyncha fauna of semi-dry meadows and pastures, calcareous spring fens and forest margins, and the relatively frequent occurrence of several species (e.g. *Kelisia irregulata* Haupt, 1935; *Tettigometra virescens* (Panzer, 1799); *Cercopis arcuata* Fieber, 1844; *Athysanus quadrum* (Boheman, 1845); *Batracomorphus allionii* (Turton, 1802); *Eupteryx lelievrei* (Lethierry, 1874); *E. origani* Zachvatkin, 1948; and *Handianus flavovarius* (Herrich-Schäffer, 1835)) which are very rare or absent elsewhere in the Czech Republic.

Key words. Cicadomorpha, Fulgoromorpha, faunistics, new records, nature conservation, grassland fauna, spring fens, forest margins, White Carpathians, Moravia, central Europe

Introduction

The leafhoppers and planthoppers (Hemiptera: Auchenorrhyncha) make up a relatively species-rich group of phytophagous insects that feed by sucking plant sap. The central European fauna comprises more than 900 species (HOLZINGER *et al.* 1997, 2003), of which 572 species have been recorded in the Czech Republic to date (DLABOLA 1954, 1977; MALENOVSKÝ & LAUTERER 2010). The Auchenorrhyncha as a whole utilize almost every type of semi-aquatic and terrestrial habitat, ranging from wetlands to dry grassland

and vertically from the soil to tree canopy layers. Most species are, however, specialized in some way for distinct habitat types and host plants and/or show ecological preferences for a definite microclimate, vegetation architecture, or frequency of habitat disturbance (NICKEL *et al.* 2002, NICKEL 2003). For these reasons, Auchenorrhyncha are increasingly being used as bioindicators, particularly in grassland ecosystems (ACHTZIGER 1999, BIEDERMANN *et al.* 2005). A few central European species are of economic interest, particularly as vectors of phytopathogenic viruses and phytoplasmas causing yield losses in field crops and vineyards (AMMAR & NAULT 2002, WEINTRAUB & BEANLAND 2006, BŘEZÍKOVÁ & LINHARTOVÁ 2007, RIPL *et al.* 2008, ORSÁGOVÁ *et al.* 2011).

The Auchenorrhyncha fauna of the Czech Republic has been made relatively well-known by numerous contributions from several authors, especially Jiří Dlabola, Pavel Lauterer and Veleslav Lang. A large quantity of data from all over the country is also stored with specimens in museum collections, particularly the Moravian Museum, Brno, the National Museum, Prague, the Slovak National Museum, Bratislava, and the Muséum d'Histoire naturelle, Paris. Detailed faunistic surveys on a regional scale have, however, been quite rare (LAUTERER 1995a, MALENOVSKÝ 2006, MALENOVSKÝ *et al.* 2011), so information on the distribution of many species of Auchenorrhyncha in the country is still fragmentary and biogeographical patterns in the group remain unclear.

The Bílé Karpaty Mts. [the White Carpathians], which extend along the Czech-Slovak border in south-eastern Moravia, constitute a biologically interesting region, unique in the Czech Republic for its geographical situation (representing the westernmost headland of the Carpathian mountain system in contact with the Pannonian lowland), geology (largely based on calcareous flysch), a relatively warm climate, and post-glacial history, particularly long-term non-intensive anthropogenic exploitation since prehistoric times. The Czech part of the mountains is currently protected as the Bílé Karpaty Protected Landscape Area and UNESCO Biosphere Reserve (hereafter abbreviated to the Bílé Karpaty PLA) and harbours a characteristic fauna and a remarkably diverse flora. The grassland communities, in particular, are associated with the most species-rich vegetation in Europe (KUČA *et al.* 1992, CULEK 1996, MACKOVČIN & JATIOVÁ 2002, JONGEPIEROVÁ 2008, KONVIČKA *et al.* 2012).

Knowledge of the Auchenorrhyncha fauna of the Bílé Karpaty has been inadequate for many years. A start was provided by LANG (1945a), who recorded 64 species on a four-day visit in August 1944 to five localities in the environs of the villages of Slavkov (Porážky), Horní Němčí (Lesná Hill), Suchá Loz (Studený vrch Hill) and Korytná (Lipiny Forest). For the following 35 years, the Bílé Karpaty Mts. were neglected by most entomologists and further data on the Auchenorrhyncha were collected only in 1979–1985, when the Czech side of the mountains was visited several times by Pavel Lauterer and his helpers from the Department of Entomology of the Moravian Museum, Brno, in the course of their long-term investigations into the Hemiptera fauna of Moravia. Apart from three remarkable species found for the first time in Moravia (LAUTERER 1983), most of the records from these excursions have remained unpublished. Within a monograph on the natural history of the Bílé Karpaty Mts., OKÁLI (1992) reviewed data

available in literature from both Czech and Slovak sides of the mountains and listed altogether 82 species (14 of which were recorded only in Slovakia in the environs of the towns of Senica and Trenčín by MUSIL (1958) and LAUTERER (1984), respectively). Since 1998, extensive Auchenorrhyncha material has been collected from throughout the Bílé Karpaty PLA on numerous excursions and as part of several projects on the part of Igor Malenovský and other colleagues, particularly Petr Kment. MALENOVSKÝ (2001) provided a species list for one of the core zones in the area, the Čertoryje National Nature Reserve. General texts dealing with the Hemiptera fauna of grasslands in the Bílé Karpaty Mts. have been compiled by KMENT & MALENOVSKÝ (2008) and LAŠTŮVKA *et al.* (2008). Some faunistic data from the Bílé Karpaty dealing with introduced alien species and new additions to the fauna of the Czech Republic have also been included in papers by LAUTERER & MALENOVSKÝ (2006), MALENOVSKÝ & LAUTERER (2006b, 2010), and LAUTERER *et al.* (2011).

The present paper summarizes all previously published records from the Czech side of the Bílé Karpaty Mts. and, particularly, it collates extensive unpublished data, most of which have been collected in recent years. The aim is to provide an up-to-date annotated list of leafhopper and planthopper species occurring in the area which may serve as base information for local nature conservation authorities. We hope that, in addition to characterising the regional fauna, it also improves knowledge of the distribution of individual Auchenorrhyncha species in the Czech Republic.

Material and methods

The area covered in this paper largely corresponds to the current administrative demarcation of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (KONVIČKA *et al.* 2012). Samples from a few localities situated close to, but outside, these borders (in the environs of the villages of Bánov, Blatnička, Boršice u Blatnice, Hluk, Javorník, Lipov, Louka, and Luhačovice) have been evaluated and included as well. Altogether, the material comes from 108 collecting sites situated throughout the Czech side of the Bílé Karpaty Mts. and adjacent portions of the Hlucká pahorkatina Hills and Luhačovická vrchovina Highlands. Many collections were made particularly in the south-western and extreme north-eastern parts of the area. In contrast, the environs of the towns of Bojkovice, Luhačovice and Slavičín remain poorly explored (Fig. 1).

Most data were collected in 1998–2012 by sweeping herbal vegetation as well as shrubs and the lower branches of trees with a sweep net. Some species were sought and collected individually close to the ground in litter, or by investigating known host plants, their bases and tussocks. A relatively large amount of data were acquired within several projects monitoring the fauna of grasslands in the area, using semi-quantitative standardized sweeping. Pitfall traps were used as a supplementary collecting method at ten grassland and two forest sites (see MIKULA & TUF 2004, TAJOVSKÝ *et al.* 2008 for details). Prolific material was also collected in 2007–2010 by the use of Malaise traps operated at selected sites in the Bílé Karpaty PLA by the Department of Entomology,

National Museum, Praha (Pavel Chvojka, Jan Ježek, and Jan Macek); only a small proportion of it, however, could be identified and evaluated for this paper. Just a few specimens were found trapped at light in the lamp domes of a house in Valašské Klobouky.

Voucher specimens for most records are deposited in the collection of the Department of Entomology, Moravian Museum, Brno. A few specimens collected by Petr Kment are kept in the National Museum, Praha, and those collected by Zdeněk Malinka in his personal collection in Opava. As well as recent collections, material collected in the 1970s and 1980s in the Bílé Karpaty Mts. by Pavel Lauterer and his helpers is also evaluated and listed here, based on specimens in the collection of the Moravian Museum, Brno. Finally, the historical material collected in the Bílé Karpaty Mts. by Veleoslav Lang has been fully revised on the basis of his collection, which is deposited in the Slovak National Museum, Bratislava.

The task of identification was shared by Igor Malenovský and Pavel Lauterer. The nomenclature and classification of the Auchenorrhyncha in the paper mostly follows NICKEL & REMANE (2002), HOLZINGER *et al.* (2003) and HOCH (2012). These sources were also used to extract brief information on the general distribution of each species. The information on biology and host plants is largely based on NICKEL *et al.* (2002) and NICKEL (2003). The host plant nomenclature is derived from KUBÁT *et al.* (2002). Conservation status is based on the Red List of threatened invertebrates of the Czech Republic (MALENOVSKÝ & LAUTERER 2005a).

The following abbreviations are used in the paper: NM – Nature Monument, NNM – National Nature Monument, NNR – National Nature Reserve, NR – Nature Reserve, PLA – Protected Landscape Area (all of these are the various categories and terms specified by the Czech system of legally protected natural areas, Act No. 114/1992 coll.); LT – light trap, MT – Malaise trap, PT – pitfall trap; IM – Igor Malenovský leg., IT – Ivan H. Tuf leg., JJ – Jan Ježek leg., JM – Jan Macek leg., JT – Jana Tuřová leg., KD – Katarína Devánová leg., KF – Karel Fajmon leg., KR – Květoslav Resl leg., LP – L. Pospíšilová leg., MH – Michal Horsák leg., OK – Ondřej Konvička leg.; PB – Petr Baňář leg., PBz – Pavel Bezděčka leg., PC – Pavel Chvojka leg., PK – Petr Kment leg., PL – Pavel Lauterer leg., VL – Veleoslav Lang leg., ZM – Zdeněk Malinka leg.; CR – critically endangered species, EN – endangered species, VU – vulnerable species, NT – near-threatened species (the latter three all categories derived from the Red List of threatened invertebrates of the Czech Republic; MALENOVSKÝ & LAUTERER 2005a).

List of collecting sites

Each entry in the list of collecting sites is arranged as follows: number of locality, name of the nearest village or town, local name of the collecting site or name of a small-scale protected area (reserve) if appropriate, code of the field (in parentheses) in the faunistic and floristic grid mapping system of central Europe (EHRENDORFER & HAMANN 1965, PRUNER & MÍKA 1996, each basic field divided into 16 subfields, see KONVIČKA *et al.* 2012), GPS coordinates, altitude, and habitat.

Leafhoppers and planthoppers (Hemiptera: Auchenorrhyncha)

1. Luhačovice, Aloiska spring environs (6872d3), 49°06'08"N 17°45'54"E, 300 m a.s.l.; park.
2. Luhačovice (6872/6972); precise location of collecting sites unknown.
3. Petrůvka, U Petrůvky NM (6872d4), 49°06'35"N 17°48'38"E, 360–400 m a.s.l.; mesic meadows, pasture, forest margins.
4. Lipová, towards Haluzice (6873c2), 49°07'43"N 17°53'17"E, 490–500 m a.s.l.; beech forest, forest margins, clearings.
5. Valašské Klobouky, Brumovská street – 0.4–0.7 km SE from town centre (6874c1), 49°08'06"N 18°00'50"E, 380–400 m a.s.l.; mesic meadows and shrubs, gardens, ornamental and ruderal vegetation.
6. Valašské Klobouky, U Rybníků – valley of an unnamed brook on NW slopes of Královec hill (6874c1), 49°08'15"N 18°01'16"E, 430–510 m a.s.l.; shore vegetation around small ponds, alder carr, spruce monoculture forest.
7. Valašské Klobouky, Javorůvky NR (6874c1), 49°08'03"N 18°01'57"E, 510–575 m a.s.l.; mesic to wet meadows, spring fen, forest margins.
8. Valašské Klobouky, Dobšená NM (6874c1), 49°07'55"N 18°02'04"E, 525–580 m a.s.l.; dry to mesic meadows, spring fen, spruce monoculture margin.
9. Valašské Klobouky, Brumovka (=Kloboucký potok) brook valley – SW slopes of Královec hill 1.5 km SSE from town centre (6874c1), 49°07'47"N 18°01'03"E, 400–480 m a.s.l.; meadows, spring fens, forest margins.
10. Valašské Klobouky, Na Nivách – 1.3 km SWW from the top of the Královec hill (6874c1), 49°07'48"N 18°01'25"E, 555 m a.s.l.; spring fen, meadows, shrubs and trees, forest road vegetation.
11. Valašské Klobouky, Královec hill – main ridge and hilltop environs (6874c1/c2), 49°07'59"N 18°02'01"E, 570–650 m a.s.l.; spruce monoculture, forest glades.
12. Poteč, Ploščiny NR (6874c2), 49°08'22"N 18°03'42"E, 670–739 m a.s.l.; mesic to dry meadows, pastures, forest margins, forest glades.
13. Valašské Klobouky, Bílé potoky NR (6874c3), 49°07'01"N 18°01'25"E, 380–500 m a.s.l., mesic to wet meadows and pastures, spring fens, forest margins, forest undergrowth.
14. Brumov, Uhlíčky (6874c3), 49°06'16"N 18°01'57"E, 390–400 m a.s.l.; mesic meadows.
15. Nedašov, village (6874c4), 49°06'33"N 18°04'04"E, 410–430 m a.s.l.; ruderal and brook-side vegetation, meadows and pastures.
16. Nedašova Lhota, S foothills of Požár hill (6874d1), 49°08'13"N 18°04'44"E, 520 m a.s.l.; forest.
17. Nedašov, Jalovcová stráň NR (6874d3), 49°06'06"N 18°05'35"E, 580–650 m a.s.l.; dry pastures, spring fens, forest margins.
18. Nedašov, Kaňoury NM (6874d3), 49°06'52"N 18°06'21"E, 610–660 m a.s.l.; dry to mesic meadows, solitary trees and shrubs, forest margins.
19. Nedašov, Kaňúr hill and Hrušová dolina valley (6874d3), 49°06'23"N 18°06'35"E, 630–750 m a.s.l.; meadows, pastures, meadow and forest spring fens.
20. Bojkovice (6972); precise location of collecting site and habitat unknown.
21. Luhačovice, Luhačovická dolina valley (6972a2), 49°05'18"N 17°44'26"E, 230–300 m a.s.l.; forest margins, meadows.
22. Slavičín, town (6973a2), 49°04'55"N 17°53'11"E, 350 m a.s.l.; gardens and ruderal vegetation.
23. Rokytnice, Bukovina hill (6973a4), 49°03'31"N 17°53'31"E, 440–450 m; beech forest, clearings (locality cited as Slavičín-Hrádek na Vlárské dráze in MALENOVSKÝ & LAUTERER 2010).
24. Brumov, Kloboucká street (6974a1), 49°05'54"N 18°01'47"E, 350–400 m a.s.l.; dry to mesic sheep pastures.
25. Bylnice, Na Stráži (6974a1), 49°04'40"N 18°00'30"E, 350–390 m a.s.l.; dry grassland, shrubs.
26. Bylnice, Bylničky, S slopes of Tarandové hill towards Bylnička brook (6974a2/a4), 49°04'33"N 18°02'10"E, 360–530 m a.s.l.; streamside vegetation, pastures, dry to mesic meadows, birch stands (locality cited as "Bylnice, S slopes of the Na Tatrách Hill towards Bylnička brook" in LAUTERER 1983)
27. Bylnice, railway station environs (6974a3), 49°04'05"N 18°00'53"E, 300 m a.s.l.; dry to wet ruderal and riverside vegetation.

28. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (6974a3), 49°03'33"N 18°00'34"E, 380–425 m a.s.l.; mesic to wet meadows, spring fens, forest margins.
29. Nedašov, Na Salaši (6974b1), 49°05'41"N 18°06'10"E, 500–600 m a.s.l.; tall-sedge bed in beech forest, brook side vegetation.
30. Nedašov, Pod Cigánem NM (6974b1), 49°05'43"N 18°05'26"E, 575–605 m a.s.l.; mesic to wet meadows and pastures, spring fen.
31. Sidonie, Vlárka brook valley above village (6974b3), 49°03'33"N 18°05'30"E, 460–480 m a.s.l.; meadows on slopes, streamside vegetation, alder carr.
32. Svatý Štěpán, Nadřičí (6974c1), 49°02'29"N 18°02'14"E, 300–330 m a.s.l.; broad-leaved forest, vegetation along forest brook, river shore.
33. Sidonie, Vlárský průsmyk pass (6974c2), 49°01'53"N 18°03'06"E, 270 m a.s.l.; river shore vegetation [on the Czech-Slovak border near Horné Srnie-Rybníky].
34. Lipov (7070); precise location of collecting site and habitat unknown.
35. Hluk, Kobyli hlava NM (7071a3), 48°57'22"N 17°31'31"E, 330–340 m a.s.l.; dry grassland, forest glade, forest margins.
36. Hluk, Babí hora NM (7071a4), 48°57'23"N 17°33'47"E, 320–330 m a.s.l.; fragment of dry grassland, shrubs.
37. Hluk, Hlucké louky meadows – Horní louky and Dolní louky (7071a3/a4), 48°57'10"N 17°32'30"E, 230–260 m a.s.l.; meadows, fields.
38. Korytná, Lipiny forest (7071b4/d2), 48°56'58"N 17°39'00"E, 350 m a.s.l.; oak-hornbeam forest with a few clearings (locality cited as "Nivnice – Lipiny" in LANG 1945a).
39. Blatnička, Milejovské louky meadows (7071c1), 48°56'45"N 17°30'44"E, 270–295 m a.s.l.; dry meadows.
40. Blatnička, Jasenová hill (7071c2), 48°56'16"N 17°33'02"E, 270–400 m a.s.l.; oak-hornbeam forest, meadows.
41. Boršice u Blatnice, Boršický potok brook valley (7071c2), 48°56'46"N 17°34'04"E, 260–280 m a.s.l.; ruderal and streamside vegetation, dry grassland, forest undergrowth.
42. Louka, Hloží NR (7071c3), 48°54'39"N 17°30'26"E, 270–300 m a.s.l.; dry grassland, shrubs.
43. Suchov, Búrová NNM (7071c4), 48°54'04"N 17°33'06"E, 450–530 m a.s.l.; meadows.
44. Horní Němčí, village (7071d1), 48°55'42"N 17°37'40"E, 330–350 m a.s.l.; ruderal and ornamental vegetation.
45. Horní Němčí, Hornoněmčanský háj forest (7071d1), 48°55'02"N 17°37'43"E, 380–400 m a.s.l.; oak-hornbeam forest.
46. Korytná, Březí (7071d2), 48°55'32"N 17°39'48"E, 400–450 m a.s.l.; pastures, solitary trees and shrubs, forest margins.
47. Suchov, Kazivec brook valley (7071d3), 48°54'14"N 17°36'57"E, 480–550 m a.s.l.; mesic to wet meadows, brookside vegetation.
48. Horní Němčí, Drahy NR (7071d4), 48°55'20"N 17°38'13"E, 380–510 m a.s.l.; dry grassland, meadows and pastures, spring fens, solitary trees and shrubs, orchards.
49. Horní Němčí, Vínohrádky (7071d4), 48°55'19"N 17°38'35"E, 430–500 m a.s.l.; intensively used cattle pasture.
50. Horní Němčí, Horní kopec hill (7071d4), 48°54'60"N 17°39'12"E, 550–590 m a.s.l.; forest road margin, broad-leaved forest.
- 50a. Horní Němčí, Uvezené NM (7071d4), 48°54'33"N 17°38'52"E, 510–580 m a.s.l.; oak-hornbeam forest.
51. Horní Němčí, Lesná hill (7071d4/7171b2), 48°53'54"N 17°38'53"E, 550–690 m a.s.l.; meadows and pastures, solitary shrubs and trees, forest margins.
52. Bánov, Skalky hill (7072a2), 48°58'52"N 17°44'34"E, 350–380 m a.s.l.; ruderal vegetation, fields, dry grassland, shrubs.
53. Komňa, Nový Dvůr (7072b2), 48°58'43"N 17°48'15"E, 480–500 m a.s.l.; forest margins, meadow, roadside vegetation.
54. Komňa, Lom Rasová NM (7072b2), 48°58'34"N 17°48'42"E, 540–570 m a.s.l.; abandoned sandstone quarry with pond, dry grassland, spring fen, solitary trees and shrubs.

Leafhoppers and planthoppers (Hemiptera: Auchenorrhyncha)

55. Vápenice, Trstná brook valley (7072b4), 48°58'30"N 17°49'37"E, 430–500 m a.s.l.; spruce forest monoculture, forest glades, streamside vegetation.
56. Korytná, Lubná pond environs (7072c1), 48°56'48"N 17°40'51"E, 320 m a.s.l.; shore vegetation.
57. Suchá Loz, Studený vrch hill (7072c2), 48°56'28"N 17°43'36"E, 500–600 m a.s.l., meadow with scattered trees, shrubs and spring fens.
58. Březová, Kalábová NM (7072c2), 48°56'22"N 17°44'38"E, 500–550 m a.s.l.; spring fen (including the material cited by LANG 1945a from the site no. III: Suchá Loz – Studený vrch hill; based on Lang's indication that his collecting sites were small spring fens situated on the south-eastern slope of the Studený vrch hill, he collected probably close to the current Kalábová NM).
59. Strání, Hrnčárky NM and Žabka reservoir surroundings (7072c3), 48°54'32"N 17°40'34"E, 440–500 m a.s.l.; dry to mesic meadows, spring fen, disturbed wetland vegetation on reservoir shores, solitary trees and shrubs, forest margins, forest road.
60. Strání, Obecnice hill (7072c3), 48°54'51"N 17°40'55"E, 530–550 m a.s.l.; dry, intensively used sheep pasture.
61. Strání, village (7072c3), 48°54'13"N 17°42'06"E, 400 m a.s.l.; ornamental vegetation.
62. Strání, Důbrava hill (7072c4), 48°55'05"N 17°43'29"E, 540–550 m a.s.l.; forest glade.
63. Lopeník, U Zvonice NM (7072d1), 48°56'25"N 17°47'12"E, 630–670 m a.s.l.; mesic to wet meadows, spring fens, solitary trees and shrubs.
64. Lopeník, Lopenické sedlo (7072d2), 48°56'13"N 17°48'04"E, 700–720 m a.s.l.; cattle pasture, spring fen, solitary trees and shrubs.
65. Lopeník, Mikulčín vrch hill (7072d2), 48°56'40"N 17°48'26"E, 700–790 m a.s.l.; beech forest, spruce monoculture, forest glade.
66. Vápenice, Krátkovský potok brook valley (7073a3), 48°58'04"N 17°50'42"E, 550 m a.s.l.; streamside vegetation.
67. Starý Hrozenkov, Skalka (=Hrozenkovský lom) quarry (7073a3), 48°58'22"N 17°52'12"E, 550–580 m a.s.l.; dry grassland, forest margins, dry to wet ruderal vegetation in abandoned basalt quarry.
68. Starý Hrozenkov, Hrozenkovské terasy (7073a3), 48°58'15"N 17°51'51"E, 470–550 m a.s.l.; old orchard grazed by cattle, shrubs, disturbed spring fens.
69. Vyškovec, Vyškovecké Bošačky (7073c1), 48°55'52"N 17°49'55"E, 550 m a.s.l.; dry cattle pasture, mesic meadows, orchard.
70. Vyškovec, Pod Hřibovňou NM (7073c1), 48°55'58"N 17°50'43"E, 550–640 m a.s.l.; mesic meadows and pastures, forest margins.
71. Vyškovec, Ve Vlčí NR (7073c1), 48°55'46"N 17°51'25"E, 600–700 m a.s.l.; dry to mesic meadows, forest margins, small woods.
72. Petrov, Staré hory hill (7169b3), 48°51'41"N 17°17'56"E, 195–260 m a.s.l.; vineyards, field margins.
73. Radějov, Žerotín NM (7169b4), 48°51'44"N 17°19'34"E, 290–320 m a.s.l.; dry grassland, open thermophilous oak forest, solitary trees and shrubs, spring fen, fields.
74. Radějov, Holý vrch hill (7170a3), 48°51'03"N 17°20'01"E, 280–380 m a.s.l.; ruderal grassland, forest margins.
75. Kněždub, Kněždubský háj forest (7170a4), 48°52'14"N 17°24'31"E, 270–350 m a.s.l.; oak and hornbeam forest, forest margins.
76. Radějov, Lučina (7170a4), 48°51'46"N 17°23'45"E, 300 m a.s.l.; shrubs and trees, alder carr nitrophilous vegetation along brook and pond.
77. Kněždub, Čertoryje NNR – Járkovec brook valley (7170a4/c2), 48°51'18"N 17°24'44"E, 320–440 m a.s.l.; dry to wet meadows, spring fens, solitary trees and shrubs, forest margins.
78. Lipov, Hájová hill (7170b2), 48°53'49"N 17°28'35"E, 330–350 m a.s.l.; dry to mesic meadows.
79. Kněždub, Čertoryje NNR – Radějovka brook valley (7170b3), 48°51'38"N 17°25'43"E, 350–440 m a.s.l.; mesic to wet meadows, solitary trees and shrubs, streamside vegetation.
80. Malá Vrbka, Výzkum hill (7170b3), 48°52'03"N 17°26'27"E, 350–430 m a.s.l., restored grassland on arable land, disused fields, ruderal vegetation, forest margins.

81. Malá Vrbka, village (7170b3), 48°52'09"N 17°27'33"E, 280 m a.s.l.; ornamental gardens.
82. Hrubá Vrbka, football ground (7170b4), 48°52'07"N 17°28'08"E, 260 m a.s.l.; ruderal vegetation.
83. Hrubá Vrbka, village (7170b4), 48°52'13"N 17°28'49"E, 260 m a.s.l.; ruderal and ornamental vegetation.
84. Radějov, Měsíční údolí valley (7170c1), 48°50'28"N 17°20'54"E, 280–330 m a.s.l.; forest margins, shrubs and trees along stream.
85. Radějov, Veselka hill (7170c1/c2), 48°50'31"N 17°22'38"E, 300–495 m a.s.l.; oak and hornbeam forest.
86. Radějov, Kútky NR (7170c2), 48°49'58"N 17°23'13"E, 350–480 m a.s.l.; mesic meadows, spring fens.
87. Velká nad Veličkou, village (7171a1), 48°52'51"N 17°30'58"E, 290–330 m a.s.l.; ruderal vegetation, orchards and ornamental gardens.
88. Velká nad Veličkou, Zahrady pod Hájem NNR (7171a1), 48°52'58"N 17°31'52"E, 300–480 m a.s.l.; dry grassland, meadows, orchards, small fields, solitary trees and shrubs, forest margins.
89. Suchov, Suchové Mlýny (7171a2), 48°53'03"N 17°34'16"E, 360–380 m a.s.l.; dry sheep pasture, mesic meadow, spring fen, streamside vegetation.
90. Suchov, Trnovský Mlýn (7171a2), 48°53'44"N 17°34'46"E, 440–450 m a.s.l.; dry sheep pasture, mesic meadow.
91. Velká nad Veličkou, towards Javorník (7171a3), 48°52'22"N 17°31'58"E, 330–390 m a.s.l.; meadows.
92. Javorník, village (7171a3), 48°51'51"N 17°31'55"E, 310–320 m a.s.l.; ruderal and ornamental vegetation.
93. Javorník, SW slopes of Háj hill (7171a3), 48°52'06"N 17°32'10"E, 260–300 m a.s.l.; dry grassland, meadows.
94. Javorník, Nad Vápenkou NM (7171a3), 48°51'40"N 17°31'19"E, 360 m a.s.l.; dry grassland, shrubs.
95. Javorník, loampit W of village (proposed as Javorník-hliník NM) (7171a3), 48°51'43"N 17°30'59"E, 350–390 m a.s.l.; abandoned loampit, dry grassland, spring fen, ruderal vegetation, railway embankment.
96. Javorník, Jazevčí NNR (7171a4), 48°52'19"N 17°33'42"E, 340–475 m a.s.l.; mesic to dry meadows, spring fens, solitary trees and shrubs, forest margins.
97. Javorník, Petruchovy Mlýny (7171a4), 48°52'00"N 17°33'07"E, 370 m a.s.l.; dry to mesic meadows, cattle pasture.
98. Nová Lhota, Fojtické Mlýny (7171b1), 48°52'44"N 17°36'32"E, 440–480 m a.s.l.; meadows.
99. Nová Lhota, Vápenky, Porážky NNR (7171b1/b2), 48°53'08"N 17°37'24"E, 550–640 m a.s.l.; meadows, forest fringes (locality cited as "Slavkov – Porážky" in LANG 1945a).
100. Nová Lhota, Vápenky, Vápenky NM (7171b2), 48°52'34"N 17°38'26"E, 470–570 m a.s.l.; beech forest.
101. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (7171b4), 48°52'04"N 17°38'43"E, 470–900 m a.s.l.; streamside vegetation, beech forest.
102. Javorník, Machová NR (7171c1), 48°49'47"N 17°31'56"E, 380–575 m a.s.l.; meadows, spring fens, solitary trees and shrubs, forest margins.
103. Javorník, Výzkum hill – W and SW slopes (7171c1), 48°50'15"N 17°32'04"E, 460–500 m a.s.l.; meadows, shrubs.
- 103a. Javorník, Filipovské údolí (7171c2), 48°50'50"N 17°33'07"E, 400 m a.s.l.; habitat unknown.
104. Strání, Záhumenice NM (7172a1), 48°53'40"N 17°41'09"E, 450–510 m a.s.l.; mesic to wet meadows, cattle pasture, forest margins, small woods.
105. Strání, Nová hora NR (7172a2), 48°53'23"N 17°43'34"E, 400–490 m a.s.l.; mesic meadows, forest margins.
106. Strání, Javorina NNR (7172a3), 48°51'32"N 17°40'33"E, 830–970 m a.s.l.; montane meadow, beech and ravine forests, forest glades.

Leafhoppers and planthoppers (Hemiptera: Auchenorrhyncha)

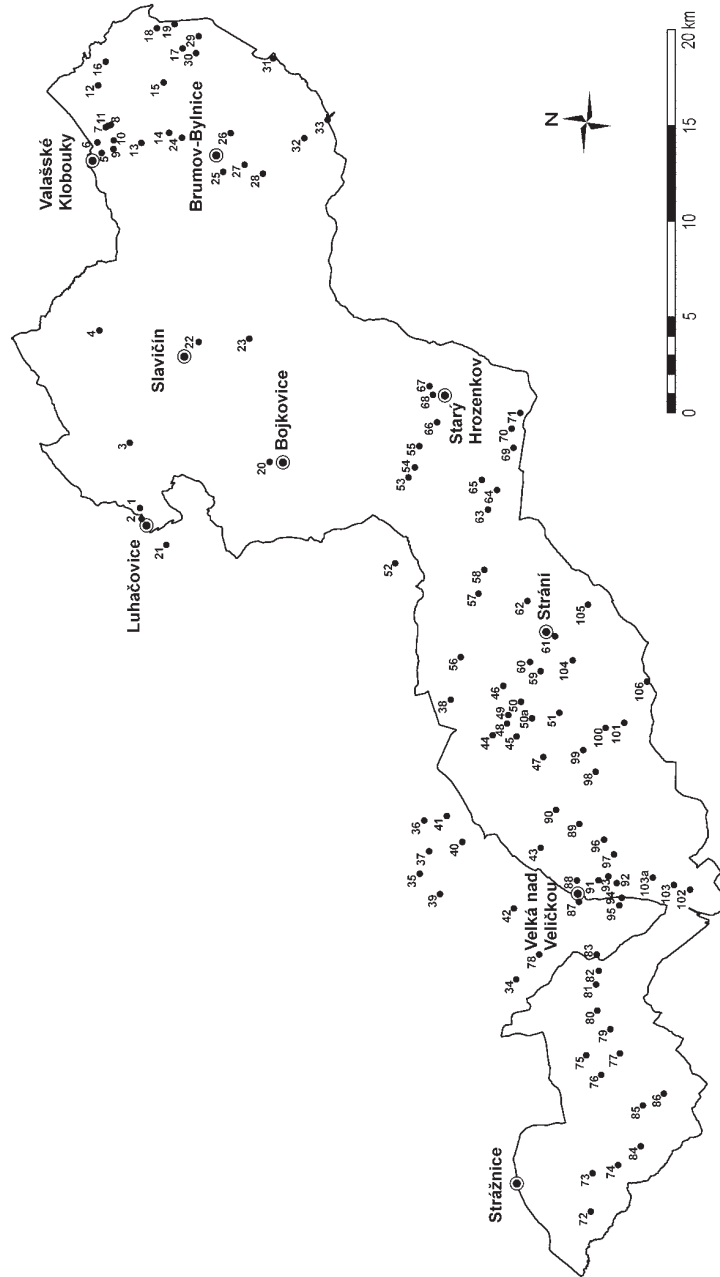


Fig. 1. A simplified map of the Bílé Karpaty PLA with the locations of collecting sites studied.

Annotated list of species

The individual species are listed in descending order from suborders to families (as in HOLZINGER *et al.* 2003), and, within each family, alphabetically. All material examined for each species is listed with individual records ordered according to the number of the collecting site. Each record is arranged as follows: name of the collecting site and its number (in parentheses), date(s) of collection(s), number of specimens, collecting method (if other than sweeping or individual search), and collector(s). For previously published records, only the name and number of the collecting site are given; other details of these records can mostly be found in the corresponding papers. All of the revised Lang specimens from the Bílé Karpaty Mts. are deposited in his collection in the Slovak National Museum, Bratislava, and bear uniformly printed locality labels “Korytná, 1944”. They clearly correspond, however, to the information published in the paper (LANG 1945a) where species are assigned to four different collecting sites (data from Porážky and Lesná Hill mixed together), a scheme that is also respected here.

Suborder FULGOROMORPHA

Family CIXIIDAE

Cixius (Acanthocixius) sticticus Rey, 1891 f. *alpestris* Wagner, 1939 (EN)

Published records. MALENOVSKÝ & LAUTERER (2010): Valašské Klobouky, Bílé potoky NR (13); Lopeník, Mikulčín vrch hill (65).

Distribution and frequency in the Bílé Karpaty PLA: Collected at forest margins in two relatively cool sites in the north-eastern and central parts of the area: sporadic. **General distribution:** Southern half of central and eastern Europe, Mediterranean region. **Host plants:** Probably polyphagous on shrubs and tall herbs. **Red List status:** Endangered.

Comments. HOLZINGER *et al.* (2003) treat *Cixius sticticus* as a species group including four distinct morphotypes with unclear taxonomic status. Two of them have been recorded for the Czech Republic: the morphotype *alpestris* which has been known so far only from the two above cited records from the Bílé Karpaty PLA and the morphotype *vindobonensis* Wagner, 1939, documented from two sites in the Pavlovské vrchy Hills and the Bobravská vrchovina Highlands (MALENOVSKÝ & LAUTERER 2010).

Cixius (Acanthocixius) stigmaticus (Germar, 1818) (VU)

Material examined. Valašské Klobouky, Brumovka brook valley (9), 19.v.1999, 2 ♀♀, IM. Valašské Klobouky, Bílé potoky NR (13), 19.v.1999, 1 ♀, IM. Vyskovec, Ve Vlčí NR (71), 22.v.2005, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Known only from the north-eastern and central parts of the area; rarely found at forest margins and in the interior of a hornbeam forest. **General distribution:** European. **Host plants:** Probably polyphagous on deciduous woody plants. **Red List status:** Vulnerable.

Comments. *Cixius stigmaticus* is probably a widespread but rarely collected species in the Czech Republic; the few previously published records are from southern Bohemia and the Moravskoslezské Beskydy Mts. in north-eastern Moravia (DLABOLA 1954).

Cixius (Ceratocixius) cunicularius (Linnaeus, 1767)

Material examined. Valašské Klobouky, Javorůvky NR (7), 22.v.1999, 1 ♂, IM. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 2 ♂♂, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 1 ♂, IM; 13.viii.2001, 1 ♂, PK; 21.ix.2001, 1 ♂, PK. Březová, Kalábová NM (58), 4.vii.2001, 1 ♂, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♀, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂, IM; 22.vi.2001, 1 ♂, IM & PK. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area but uncommon; mostly found in relatively humid sites such as brook valleys and spring fens. **General distribution:** Palaearctic. **Host plants:** Various deciduous trees and shrubs. **Red List status:** –.

Cixius (Ceratocixius) simplex (Herrich-Schäffer, 1835)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Dobšená NM (8), 10.ix.1999, 1 ♀, IM. Valašské Klobouky, Brumovka brook valley (9), 9.ix.1999, 1 ♀, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 2 ♂♂ 1 ♀, IM. Valašské Klobouky, Bílé potoky NR (13), 9.ix.1999, 1 ♀, IM. Nedašov, Jalovcová stráň NR (17), 10.ix.1999, 1 ♀, IM. Bylnice, railway station environs (27), 11.ix.1999, 1 ♂, IM. Hluk, Babí hora NM (36), 24.viii.2002, 1 ♀, IM. Louka, Hloží NR (42), 7.ix.1998, 1 ♂, IM. Horní Němčí, village (44), 10.ix.1998, 4 ♂♂ 1 ♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 2 ♀♀, IM. Starý Hrozenkov, Skalka quarry (67), 22.ix.2007, 1 ♂ 2 ♀♀, IM. Kněždub, Čertoryje NNR, Járkovec brook valley (77), 10.ix.2008, 1 ♂ 1 ♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 2 ♂♂ 3 ♀♀, IM. Javorník, loampit W of village (95), 7.ix.1998, 1 ♂ 1 ♀, IM. Javorník, Jazevčí NNR (96), 10.ix.2000, 5 ♀♀, IM. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 1 ♂ 1 ♀, IM. Strání, Záhumenice NM (104), 21.ix.2001, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area; quite common in dry to mesic grasslands with scattered shrubs and along forest margins. **General distribution:** Southern parts of western Palaearctic. **Host plants:** Probably polyphagous on various woody plants. **Red List status:** –.

Cixius (Cixius) nervosus (Linnaeus, 1758)

Published records. LANG (1945a): Suchá Loz, Studený vrch hill (57). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Dobšená NM (8), 2.vii.1999, 2 ♀♀, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 1 ♀, IM. Poteč, Ploštiny NR (12), 4.vii.1999, 1 ♂ 1 ♀, IM. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 1 ♀, IM; 14.viii.2006, 1 ♀, PK. Brumov, Uhličky (14), 1.ix.2004, 1 ♀, IM. Bylnice, railway station environs (27), 1.vii.1999, 1 ♀, MH & PK. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 1 ♀, IM. Korytná, Březí (46), 5.vii.2001, 1 ♀, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 3 ♀♀, IM. Březová, Kalábová NM (58), 4.vii.2001, 1 ♀, IM. Strání, Obecnice hill (60), 9.viii.2001, 1 ♀, PK. Vyškovec, Vyškovecké Bošačky (69), 24.vii.2005, 1 ♀; 3.ix.2005, 1 ♀; both PK. Radějov, Žerotín NM (73), 11.vii.1998, 2 ♀♀, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 3 ♂♂, IM. Radějov, Lučina (76),

13.v.1998, 1 ♂; 14.vii.1998, 2 ♀♀; all IM. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 1 ♀; 27.vii.2000, 1 ♂; both IM & PK. Radějov, Měsíční údolí valley (84), 20.viii.2002, 1 ♀, PK. Radějov, Veselka hill (85), 11.vii.1998, 2 ♀♀, IM. Radějov, Kútky NR (86), 11.vii.1998, 2 ♀♀, IM. Velká nad Veličkou, village (87), 19.vi.2000, 2 ♂♂ 1 ♀, PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 1 ♀, IM; 19.vi.2000, 2 ♂♂, PK. Javorník, Jazevčí NNR (96), 19.vi.2000, 2 ♂♂ 7 ♀♀, IM. Javorník, Petruchovy Mlýny (97), 17.vii.2002, 1 ♀, IM; 17.vi.–19.vii.2003, 1 ♀, PT, KR. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 1 ♀, IM. Javorník, Machová NR (102), 9.vii.1998, 2 ♂♂ 1 ♀, IM. Strání, Záhumenice NM (104), 9.viii.2001, 1 ♀, PK; 15.vi.2010, 1 ♂, MT, JM & PC. Strání, Javorina NNR (106), 4.vii.2001, 2 ♂♂ 1 ♀, IM & PK.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area in various dry to wet habitats: mostly along forest margins, in grasslands with scattered trees and shrubs and on streamside vegetation. **General distribution:** Holarctic. **Host plants:** Various deciduous shrubs and trees. **Red List status:** –.

Cixius (Paracixius) distinguendus Kirschbaum, 1868 (VU)

Published records. MALENOVSKÝ & LAUTERER (2010): Rokytnice, Bukovina hill (23).

Distribution and frequency in the Bílé Karpaty PLA: Known from only one finding in a beech forest in the north-eastern part of the area. **General distribution:** Western Palaearctic. **Host plants:** Probably polyphagous on various woody plants. **Red List status:** Vulnerable.

Comments. *Cixius distinguendus* is probably a widely distributed species in the Czech Republic; it is, however, only rarely collected (MALENOVSKÝ & LAUTERER 2010).

Hyalesthes obsoletus Signoret, 1865

Material examined. Javorník, Petruchovy Mlýny (97), 27.vii.2005, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Documented from only one site (a dry cattle pasture) in the south-western part of the area. **General distribution:** Southern parts of western Palaearctic. **Host plants:** Polyphagous on dicotyledonous herbs, frequently associated with *Convolvulus arvensis* or *Urtica dioica*. **Red List status:** –.

Comments. *Hyalesthes obsoletus* is a vector of phytoplasmas causing the stolbur disease of solanaceous plants (BŘEZÍKOVÁ & LINHARTOVÁ 2007, ORSÁGOVÁ *et al.* 2011) and the “bois noir” grapevine yellow disease. Its distribution in the Czech Republic is scattered in warm areas with oscillating abundance in different years (LAUTERER & BŘEZÍKOVÁ 2006, MALENOVSKÝ *et al.* 2011, ŠAFÁŘOVÁ *et al.* 2011).

Reptalus panzeri (Löw, 1883) (NT)

Material examined. Bylnice, Na Stráži (25), 11.vii.2006, 1 ♂ 3 ♀♀, IM. Lipov (34), 10.vii.2009, 1 ♂ 4 ♀♀, ZM. Horní Němčí, Drahy NR (48), 30.vi.2001, 2 ♂♂ 4 ♀♀, IM. Starý Hrozenkov, Skalka quarry (67),

2.vii.2007, 2 ♂♂ 6 ♀♀, IM. Vyškovec, Vyškovecké Bošačky (69), 27.vi.2004, 1 ♂ 1 ♀, IM. Radějov, Žerotín NM (73), 11.vii.1998, 1 ♀, IM. Kněždub, Kněždubský háj forest (75), 22.vi.2001, 3 ♂♂ 2 ♀♀, IM & PK. Malá Vrbka, Výzkum hill (80), 28.vii.2001, 2 ♀♀, IM & PK. Malá Vrbka, village (81), 19.vi.2000, 1 ♀, IM & PK. Hrubá Vrbka, village (83), 28.vii.2001, 1 ♂, IM. Velká nad Veličkou, village (87), 19.vi.2000, 1 ♂, PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 19.vi.2000, 1 ♀, PK. Javorník, Nad Vápenkou NM (94), 9.vii.1998, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed, extending from the south-western part to the environs of Bylnice in the north-east but quite uncommon and restricted to the warmest and driest sites; in disturbed dry grassland, dry ruderal sites and on waysides. **General distribution:** Southern parts of western Palaearctic. **Host plants:** Polyphagous on herbs and shrubs. **Red List status:** Near-threatened.

***Reptalus quinquecostatus* (Dufour, 1833)**

(VU)

Material examined. Suchov, Suchovské Mlýny (89), 23.vi.2004, 2 ♂♂, IM; 16.viii.2004, 1 ♂, PK; 27.vii.2005, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Collected only in one site (a dry sheep pasture) in the south-western part of the area. **General distribution:** Southern parts of western Palaearctic. **Host plants:** Probably polyphagous on herbs and shrubs. **Red List status:** Vulnerable.

Comments. *Reptalus quinquecostatus* is a sporadic species in the Czech Republic that has been documented only from the Pannonian part of southern Moravia so far: the Pavlovské vrchy Hills, the environs of Lednice and the Výchon hill near Židlochovice (DLABOLA 1956, LAUTERER 1957, MALENOVSKÝ *et al.* 2011).

***Tachycixius pilosus* (Olivier, 1791)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Luhačovice, Aloiska spring environs (1), 12.v.2011, 2 ♂♂ 2 ♀♀, MH. Valašské Klobouky, Brumovská street (5), 19.v.1999, 1 ♀, IM. Valašské Klobouky, Brumovka brook valley (9), 19.v.1999, 2 ♂♂ 1 ♀, IM. Poteč, Ploščiny NR (12), 1.vi.2002, 1 ♂, IM. Valašské Klobouky, Bílé potoky NR (13), 16.vi.2006, 1 ♂ 4 ♀♀, IM. Bylnice, Na Stráži (25), 16.vi.2006, 1 ♂ 1 ♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 21.v.1999, 1 ♀, IM. Blatnička, Milejovské louky meadows (39), 24.v.2009, 1 ♀, PB. Korytná, Březí (46), 5.vii.2001, 1 ♀, IM. Horní Němčí, Drahy NR (48), 15.v.1998, 1 ♀; 30.vi.2001, 1 ♂ 1 ♀; all IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 16.v.1998, 1 ♂, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂, IM; 22.vi.2001, 2 ♀♀, IM & PK. Kněždub, Čertoryje NNR (77, 79), 22.v.2000, 2 ♀♀, PK. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 1 ♂, MT, JM & PC. Malá Vrbka, Výzkum hill (80), 22.vi.2001, 1 ♀, IM & PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 14.v.1998, 1 ♂ 1 ♀; 9.–10.ix.2000, 1 ♀; all IM. Javorník, loampit W of village (95), 24.v.2002, 1 ♂ 1 ♀, IM. Javorník, Jazevečí NNR (96), 6.v.2000, 7 ♂♂ 3 ♀♀; 19.vi.2000, 1 ♂♂ 4 ♀♀; all IM. Javorník, Petruchovy Mlýny (97), 3.v.2001, 2 ♂♂, IM. Javorník, Machová NR (102), 14.v.1998, several ♂♂ ♀♀, IM; 14.vi.2010, 11 ♂♂ 12 ♀♀, MT, JM & PC. Strání, Záhumenice NM (104), 24.v.2001, 1 ♀, IM; 15.vi.2010, 8 ♂♂ 4 ♀♀, MT, JM & PC.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common at forest margins and on shrubs scattered in grasslands throughout the area. **General**

distribution: Western Palaearctic. **Host plants:** Polyphagous on deciduous woody plants. **Red List status:** –.

***Trigonocranus emmeae* Fieber, 1876**

Published records. MALENOVSKÝ & LAUTERER (2010): Starý Hrozenkov, Skalka quarry (67); Starý Hrozenkov, Hrozenkovské terasy (68).

Distribution and frequency in the Bílé Karpaty PLA: Known only from two small, adjacent sites in the environs of Starý Hrozenkov in the central part of the area; collected as macropterous females in sunny places with sparse, low herbaceous vegetation and bare ground (an abandoned quarry and a margin of a cattle pasture). **General distribution:** Central Europe, Great Britain, Croatia and Caucasus. **Host plants:** Unknown; larvae and brachypterous adults living in the topsoil and leaf litter. **Red List status:** Not evaluated.

Comments. In the Czech Republic, *Trigonocranus emmeae* is so far known only from the Bílé Karpaty PLA but may be overlooked elsewhere because of its cryptic way of life (MALENOVSKÝ & LAUTERER 2010).

Family DELPHACIDAE

***Acanthodelphax spinosa* (Fieber, 1866)**

Published records. LANG (1945a): Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79). KMENT & MALENOVSKÝ (2008): Lopeník, Lopenické sedlo (64).

Additional material examined. Petrůvka, U Petrůvky NM (3), 6.viii.1999, 1 ♂, PK. Valašské Klobouky, Javorůvky NR (7), 22.v.1999, 8 ♂♂ 1 ♀; 2.vii.1999, 1 ♀; all IM. Valašské Klobouky, Dobšená NM (8), 10.ix.1999, 1 ♂, IM. Valašské Klobouky, Brumovka brook valley (9), 19.v.1999, 2 ♂♂ 1 ♀, IM. Poteč, Ploščiny NR (12), 4.vii.1999, 1 ♀, IM; 1.vi.2002, 2 ♀♀, IM; 24.viii.2002, 1 ♀, PK. Valašské Klobouky, Bílé potoky NR (13), 16.vi.2006, 1 ♀; 11.vii.2006, 19 ♂♂ 15 ♀♀; all IM. Nedašov, village (15), 3.vii.1999, 1 ♂, IM. Nedašov, Jalovcová stráň NR (17), 20.v.1999, 6 ♂♂; 3.vii.1999, 1 ♂; 10.ix.1999, 1 ♂; 1.ix.2004, 3 ♂♂; 28.v.2005, 9 ♂♂ 7 ♀♀; 28.vii.2005, 5 ♂♂ 4 ♀♀ 2 larvae; 6.ix.2005, 1 ♀; 17.vi.2006, 1 ♂; all IM. Nedašov, Kaňoury NM (18), 12.vii.2006, 1 ♂ 1 ♀, IM. Nedašov, Kaňúr hill and Hrušová dolina valley (19), 20.v.1999, 10 ♂♂ 2 ♀♀, IM. Brumov, Kloboucká street (24), 2.ix.2004, 3 ♂♂ 1 ♀, IM; 28.v.2005, 2 ♂♂, IM; 28.vii.2005, 1 ♂ 2 ♀♀, PK; 4.vii.–6.viii.2005, 1 ♂, PT, KR; 4.ix.2005, 1 ♂, PK. Bylnice, Na Stráži (25), 11.vii.2006, 7 ♂♂, IM. Nedašov, Pod Cigánem NM (30), 30.vi.2004, 3 ♂♂; 1.ix.2004, 72 ♂♂ 18 ♀♀ 1 larva; 5.x.2004, 56 larvae; 28.v.2005, 26 ♂♂ 27 ♀♀ 1 larva; 28.vii.2005, 515 ♂♂ 236 ♀♀ 3 larvae; 6.ix.2005, 10 ♂♂ 6 ♀♀ 1 larva; all IM. Hluk, Babí hora NM (36), 24.viii.2002, 1 ♂, IM. Blatnička, Milejovské louky meadows (39), 24.v.2009, 2 ♂♂; 16.viii.2009, 1 ♂; all PB. Horní Němčí, Drahy NR (48), 13.viii.2001, 1 ♂, PK; 23.v.2002, 1 ♂, IM; 21.vii.2002, 12 ♂♂ 3 ♀♀, IM; 10.ix.2002, 1 ♀, IM. Horní Němčí, Vinohrádky (49), 20.vii.2002, 1 ♂ 1 ♀; 10.ix.2002, 3 ♂♂; all IM. Strání, Obecnice hill (60), 20.vii.2002, 1 ♂ 5 ♀♀, IM. Lopeník, U Zvonice NM (63), 27.vi.2004, 2 ♀♀; 16.iv.–20.v.2005, 1 ♀, PT, KR; 21.v.2005, 5 ♂♂ 4 ♀♀ 2 larvae; 24.vii.2005, 8 ♂♂ 13 ♀♀; all IM. Lopeník, Lopenické sedlo (64), 27.vi.2004, 8 ♂♂ 4 ♀♀, IM; 25.ix.2004, 1 ♂ 1 ♀, IM; 21.v.2005, 47 ♂♂ 29 ♀♀, IM; 24.vii.2005, 43 ♂♂ 29 ♀♀, IM; 3.ix.2005, 15 ♂♂ 10 ♀♀, PK. Lopeník, Mikulčín vrch hill (65), 24.vii.2005, 1 ♀, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♂ 2 ♀♀, IM. Vyškovec, Vyškovecké Bošačky (69), 19.viii.2004, 8 ♂♂ 3 ♀♀, PK; 21.v.2005, 6 ♂♂ 5 ♀♀ 1 larva, IM; 3.ix.2005, 1 ♂ 1 ♀, PK. Vyškovec, Pod Hřibovňou NM (70), 19.viii.2004, 2 ♂♂ 1 ♀, PK; 21.v.2005, 4 ♂♂ 2 ♀♀, IM; 24.vii.2005, 1 ♂ 1 ♀, PK; 8.ix.2005, 3 ♂♂ 1 ♀, IM. Vyškovec, Ve Vlčí NR (71), 22.v.2005, 1 ♂, IM. Radějov, Žerotín NM (73), 11.vii.1998, 1 ♂ 1 ♀; 19.iv.2012, 3 ♂♂ 2 ♀♀; all IM. Kněždub, Čertoryje NNR, Járkovec brook valley (77), 2.vi.2008, 1 ♂; 7.vi.2010, 1 ♂; both IM. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 3 ♂♂ 3 ♀♀, IM & PK.

Leafhoppers and planthoppers (Hemiptera: Auchenorrhyncha)

Radějov, Kútky NR (86), 11.vii.1998, 1 ♂ 1 ♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 16 ♂♂ 23 ♀♀; 18.iv.2000, 11 ♂♂ 9 ♀♀; all IM. Suchov, Suchovské Mlýny (89), 1.x.2004, 1 ♂; 26.v.2005, 2 ♂♂; 27.vii.2005, 17 ♂♂ 14 ♀♀; 1.ix.2005, 38 ♂♂ 28 ♀♀; all IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 2 ♂♂, IM; 16.viii.2004, 11 ♂♂ 2 ♀♀, PK; 1.x.2004, 1 ♂, IM; 26.v.2005, 96 ♂♂ 53 ♀♀, IM; 27.vii.2005, 323 ♂♂ 143 ♀♀ 5 larvae, IM; 1.ix.2005, 7 ♂♂ 1 larva, IM. Javorník, Nad Vápenkou NM (94), 6.v.2000, 1 ♂, IM. Javorník, Jazevčí NNR (96), 6.v.2000, 10 ♂♂ 2 ♀♀, IM. Javorník, Petruchovy Mlýny (97), 2.ix.2004, 3 ♂♂ 1 ♀; 1.x.2004, 2 ♂♂; 26.v.2005, 3 ♂♂ 5 ♀♀; 27.vii.2005, 16 ♂♂ 12 ♀♀; 1.ix.2005, 14 ♂♂ 4 ♀♀; all IM. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 19 ♂♂ 18 ♀♀, IM. Strání, Záhumenice NM (104), 24.v.2001, 6 ♂♂ 5 ♀♀, IM; 9.viii.2001, 2 ♂♂ 1 ♀, PK; 20.vii.2001, 43 ♂♂ 17 ♀♀, IM. Strání, Javorina NNR (106), 4.vii.2001, 4 ♂♂ 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in sunny, dry to mesic pastures and meadows from low to the highest elevations. **General distribution:** Europe except the north and the Mediterranean region. **Host plants:** Fine-leaved *Festuca* spp. (*F. rubra* and *F. ovina* group). **Red List status:** –.

Anakelisia perspicillata (Boheman, 1845)

(VU)

Published records. DLABOLA (1954): Javorník, Filipovské údolí (103a).

Additional material examined. Nedašov, Jalovcová stráž NR (17), 10.ix.1999, 1 ♂; 1.ix.2004, 1 ♀; 6.ix.2005, 2 ♂♂ 1 ♀; all IM; 25.vi.2002, 1 ♀, PK. Nedašov, Kaňoury NM (18), 16.viii.2006, 1 ♀, PK. Horní Němčí, Drahy NR (48), 13.viii.2001, 1 ♀, PK; 21.ix.2001, 1 ♀, IM; 10.ix.2002, 1 ♀, IM. Vyškovec, Vyškovecké Bošacky (69), 3.ix.2005, 2 ♂♂ 3 ♀♀, PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 2 ♀♀, IM. Suchov, Suchovské Mlýny (89), 1.x.2004, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed throughout the area but quite rare and restricted to species-rich dry grassland sites with short vegetation (e.g. pastures and landslides on dry hillsides). **General distribution:** Palaearctic. **Host plants:** *Carex flacca* and *C. pilulifera*. **Red List status:** Vulnerable.

Comments. *Anakelisia perspicillata* is a widespread but quite local species in the Czech Republic that has been recorded e.g. from the foothills of the Krkonoše Mts. in north-eastern Bohemia, Třeboňsko PLA in southern Bohemia and the Bohemian-Moravian Highlands in western Moravia (DLABOLA 1954 and unpublished records from the Moravian Museum, Brno).

Asiraca clavicornis (Fabricius, 1794)

Material examined. Hluk, Kobyly hlava NM (35), 24.viii.2002, 1 ♂ 1 ♀, IM. Hluk, Babí hora NM (36), 24.viii.2002, 1 ♂ 3 ♀♀ 1 larva, IM. Louka, Hloží NR (42), 24.iv.1999, 1 ♂ 1 ♀, MH. Vyškovec, Vyškovecké Bošacky (69), 8.v.2004, 1 ♂ 2 ♀♀, IM; 25.ix.2004, 1 ♂, PK; 21.v.2005, 3 ♂♂, IM; 3.ix.2005, 2 ♂♂, PK. Petrov, Staré hory hill (72), 19.viii.2002, 2 ♂♂, PK. Radějov, Žerotín NM (73), 9.viii.2002, 1 ♂ 1 ♀, PK. Malá Vrbka, Výzkum hill (80), 17.iv.2000, 1 ♀, IM; 4.x.2002, 1 ♀, PK. Hrubá Vrbka, football ground (82), 20.ix.2001, 1 ♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 18.iv.2000, 3 ♂♂ 1 ♀; 27.vii.2000, 1 larva; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Largely restricted to xerothermic sites in the south-western part of the area with isolated records from the Bošacká dolina near Vyškovec in the central part; uncommon in dry grassland, ruderal sites and on waysides. **General distribution:** Palaearctic. **Host plants:** Probably polyphagous on herbs. **Red List status:** –.

Chloriona smaragdula (Stål, 1853)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Dobšená NM (8), 2.vii.1999, 13 ♂♂ 3 ♀♀, IM. Valašské Klobouky, Bílé potoky NR (13), 19.v.1999, 1 ♂; 16.vi.2006, 25 ♂♂ 18 ♀♀; 11.vii.2006, 8 ♂♂ 2 ♀♀; all IM. Blatnička, Milejovské louky meadows (39), 24.v.2009, 4 ♂♂, PB. Kněždub, Čertoryje NNR (77, 79), 19.vi.1980, 1 ♂, PL. Suchov, Suchovské Mlýny (89), 6.v.2000, 8 ♂♂, IM. Javorník, loampit W of village (95), 24.v.2002, 59 ♂♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Probably scattered throughout the area although not recorded from its central part; locally common in spring fens overgrown with reed. **General distribution:** Western Palaearctic. **Host plants:** *Phragmites australis*. **Red List status:** –.

Chloriona unicolor (Herrich-Schäffer, 1835) (VU)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79). MALENOVSKÝ & LAUTERER (2010): Blatnička, Milejovské louky meadows (39); Kněždub, Čertoryje NNR (77, 79); Suchov, Suchovské Mlýny (89); Javorník, Machová NR (102).

Additional material examined. Javorník, loampit W of village (95), 24.v.2002, 18 ♂♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Recorded only from several calcareous spring fens in the south-western part of the area, quite rare. **General distribution:** Southern parts of central Europe, Mediterranean region and central Asia. **Host plants:** *Phragmites australis*. **Red List status:** Vulnerable.

Comments. *Chloriona unicolor* appears to be fairly frequent on reed in lowlands and hills in south-eastern Moravia but sporadic elsewhere in the Czech Republic (MALENOVSKÝ & LAUTERER 2010).

Conomelus anceps (Germar, 1821)

Published records. LANG (1945a): Korytná, Lipiny forest (38); Březová, Kalábová NM (58). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, U Rybníků (6), 10.ix.1999, 3 ♀♀, IM. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 7 ♂♂ 11 ♀♀, IM; 24.viii.2002, 2 ♂♂, PK. Valašské Klobouky, Dobšená NM (8), 10.ix.1999, 2 ♂♂ 4 ♀♀, IM. Valašské Klobouky, Brumovka brook valley (9), 9.ix.1999, 1 ♂ 4 ♀♀, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 2 ♀♀, IM. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 1 ♂; 10.ix.1999, 1 ♂ 6 ♀♀; all IM; 16.viii.2006, 1 ♂ 1 ♀, PK. Bylnice, Lazy NR and surrounding meadows on N slopes of Plánava hill (28), 12.ix.1999, 2 ♂♂ 1 ♀, IM. Nedašov, Na Salaši (29), 3.vii.1999, 2 ♂♂, IM. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 2 ♂♂; 5.x.2004, 1 ♂♂ 2 ♀♀; 28.vii.2005, 2 ♀♀; all IM. Horní Němčí, Drahy NR (48), 21.ix.2001, 2 ♀♀, PK; 10.ix.2002, 1 ♂ 2 ♀♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 1 ♂ 1 ♀, IM. Lopeník, Lopenické sedlo (64), 25.ix.2004, 1 ♀, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♂, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 2 ♂♂ 3 ♀♀; 8.viii.2007, 2 ♂♂ 1 ♀; all IM. Radějov, Veselka hill (85), 11.vii.1998, 2 ♀♀, IM. Radějov, Kútky NR (86), 11.vii.1998, 5 ♀♀; 8.ix.1998, 1 ♂ 1 ♀; all IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 3 ♂♂ 1 ♀; 10.ix.2000, 1 ♂; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common in spring fens, wet meadows and pastures, on shores of ponds and forest roads throughout the area. **General distribution:** Europe except the north, the Apennine and Balkan peninsulas. **Host plants:** *Juncus* spp. **Red List status:** –.

***Criomorpha albomarginatus* Curtis, 1833**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Javorůvky NR (7), 22.v.1999, 3 ♂♂ 2 ♀♀; 11.ix.1999, 1 ♀; all IM. Valašské Klobouky, Bílé potoky NR (13), 16.vi.2006, 1 ♀, IM. Nedašov, Jalovcová stráž NR (17), 20.v.1999, 5 ♂♂ 6 ♀♀; 28.v.2005, 2 ♀♀; all IM. Nedašov, Kaňúr hill and Hrušová dolina valley (19), 20.v.1999, 2 ♂♂ 1 ♀, IM. Brumov, Kloboucká street (24), 28.v.2005, 1 ♂ 2 ♀♀ 1 larva, IM. Bylnice, Bylničky (26), 24.vi.1982, 1 ♀, PL. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 21.v.1999, 1 ♀, IM. Nedašov, Pod Cigánem NM (30), 30.vi.2004, 1 ♂; 28.v.2005, 3 ♂♂; all IM. Korytná, Lubná pond environs (56), 5.vii.2001, 1 ♂, IM. Lopeník, U Zvonice NM (63), 21.v.2005, 2 ♂♂ 2 ♀♀ 5 larvae, IM. Lopeník, Lopenické sedlo (64), 27.vi.2004, 1 ♂ 1 ♀; 21.v.2005, 1 ♂; 24.vii.2005, 1 ♂; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♀, IM. Vyškovec, Pod Hřibovňou NM (70), 21.v.2005, 1 ♂, IM. Radějov, Kútky NR (86), 2.vi.1979, 2 ♀♀, PL. Suchov, Suchovské Mlýny (89), 26.v.2005, 1 ♂, IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 3 ♀♀; 26.v.2005, 4 ♂♂ 3 ♀♀; all IM. Javorník, Jazevčí NNR (96), 6.v.2000, 2 ♂♂ 3 ♀♀, IM. Nová Lhota, Fojtické Mlýny (98), 7.vii.1980, 1 ♀, PL. Javorník, Machová NR (102), 14.v.1998, several ♂♂ ♀♀, IM. Javorník, Výzkum hill (103), 10.vi.1985, 1 ♀, PL. Strání, Záhumenice NM (104), 24.v.2001, 1 ♂, IM. Strání, Javorina NNR (106), 4.vii.2001, 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common in meadows, pastures, and at forest margins throughout the area, including the highest elevations. **General distribution:** European. **Host plants:** Poaceae (e.g. *Festuca rubra*, *Deschampsia cespitosa*, *Avenella flexuosa*, *Calamagrostis arundinacea*). **Red List status:** –.

***Criomorpha williamsi* China, 1939**

(CR)

(Fig. 2)

Published records. KMENT & MALENOVSKÝ (2008), MALENOVSKÝ & LAUTERER (2010): Javorník, Machová NR (102).

Distribution and frequency in the Bílé Karpaty PLA: Known from only one site in the south-western part of the area (a quite eutrophicated wet meadow in the Rybnický potok brook floodplain). **General distribution:** Central Europe, Great Britain, central Russia, Kazakhstan. **Host plants:** Poaceae (perhaps *Poa palustris* or *P. trivialis*). **Red List status:** Critically endangered.

Comments. *Criomorpha williamsi* is a sporadic species in the Czech Republic that has been recorded altogether from four isolated localities in southern Moravia: the environs of Hlohovec in the Pannonian Plain, the River Dyje valley near Vranov nad Dyjí, Sobůlky near Kyjov, and the above cited locality in the Bílé Karpaty PLA (LAUTERER 1992; MALENOVSKÝ & LAUTERER 2010).

***Delphacinus mesomelas* (Boheman, 1850)**

(NT)

Published records. KMENT & MALENOVSKÝ (2008): Lopeník, Lopenické sedlo (64).

Additional material examined. Valašské Klobouky, Bílé potoky NR (13), 30.vi.1999, 1 ♂, PK; 16.vi.2006, 1 ♂ 1 ♀, IM. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 1 ♂, IM. Lopeník, U Zvonice NM (63), 27.vi.2004, 1 ♂; 21.v.2005, 3 larvae; 24.vii.2005, 1 ♂; all IM. Lopeník, Lopenické sedlo (64), 27.vi.2004, 6 ♂♂ 8 ♀♀; 21.v.2005, 1 larva; 24.vii.2005, 3 ♂♂ 4 ♀♀ 1 larva; all IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 1 ♂ 2 ♀♀, IM; 16.viii.2004, 1 ♀, PK; 26.v.2005, 10 larvae, IM; 27.vii.2005, 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread but local: restricted to dry to mesic pastures and meadows in relatively cool sites. **General distribution:** Europe, except the north and the Mediterranean region, Kazakhstan. **Host plants:** Fine-leaved *Festuca* spp. (*F. rubra* and *F. ovina* group). **Red List status:** Near-threatened.

Comments. In the Czech Republic, *D. mesomelas* is mostly found in highlands and submontane regions with a few records also from xerothermic dry grassland sites at lower elevations (DLABOLA 1954, LAUTERER 1980).

***Delphacodes capnodes* (Scott, 1870) (EN)**

Material examined. Horní Němčí, Hornoněmčanský háj forest (45), 7.vii.1985, 10 ♀♀, PL. Suchov, Trnovský Mlýn (90), 1.x.2004, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Recorded only as macropterous specimens in two sites in the south-western part of the area. **General distribution:** Europe except the north and south-west. **Host plants:** *Carex* spp. (*C. acuta*, *C. acutiformis* and *C. riparia*), *Eriophorum angustifolium*. **Red List status:** Endangered.

Comments. *Delphacodes capnodes* is a widespread but rarely documented species in the Czech Republic; this may be at least partly due to its cryptic way of life close to the ground. Published records from the country include fens, peatbogs and salt marshes in western, southern and central Bohemia, and western and southern Moravia (DLABOLA 1964, LAUTERER 1980, MALENOVSKÝ 2006).

***Delphacodes venosus* (Germar, 1830) (NT)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Radějovka brook valley (79). **Additional material examined.** Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Documented only from two wet grassland sites in the south-western and central parts of the area; perhaps overlooked elsewhere for its cryptic way of life close to the ground. **General distribution:** Europe except the south-west. **Host plants:** Poaceae (e.g. *Deschampsia cespitosa*, *Festuca arundinacea*, *Agrostis* spp., *Molinia caerulea* agg.) and *Carex* spp. **Red List status:** Near-threatened.

Comments. In the Czech Republic, *Delphacodes venosus* is a widespread species at least in southern and south-western Moravia and northern Bohemia (LAUTERER 1980, MALENOVSKÝ 2006).

***Delphax crassicornis* (Panzer, 1796) (EN)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Distribution and frequency in the Bílé Karpaty PLA: Documented only from one spring fen overgrown with reed in the south-western part of the area: sporadic. **General**

distribution: Palaearctic. **Host plant:** *Phragmites australis*. **Red List status:** Endangered.

Comments. *Delphax crassicornis* is a rarely recorded species in the Czech Republic; most previous findings come from the Pannonian part of southern Moravia (LAUTERER 1980, MALENOVSKÝ *et al.* 2011). The material published under this name from the Čertoryje NNR by MALENOVSKÝ (2001) had been partly misidentified (see *D. pulchellus*).

***Delphax pulchellus* (Curtis, 1833)**

(CR)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Radějovka brook valley (79) [as *Delphax crassicornis*, misidentified].

Material examined. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 18.vi.2000, 1 ♂, 1 larva, IM & PK.

Distribution and frequency in the Bílé Karpaty PLA: Known only from reeds in the Radějovka brook floodplain in the south-western part of the area: sporadic. **General distribution:** Europe, except the boreal north and the south-west. **Host plant:** *Phragmites australis*. **Red List status:** Critically endangered.

Comments. *Delphax pulchellus* is a very sporadic species in the Czech Republic: there have been only two previous records from the Pannonian part of southern Moravia (LANG 1945b, MALENOVSKÝ & LAUTERER 2010). In Germany, the species inhabits salt marshes and low-input meadows and pastures with scattered reeds and avoids flooded sites (NICKEL 2003, KUNZ *et al.* 2011).

***Dicranotropis (Dicranotropis) hamata* (Boheman, 1847)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Petrůvka, U Petrůvky NM (3), 6.viii.1999, 3 ♂♂ 3 ♀♀, PK. Valašské Klobouky, Javorůvky NR (7), 22.v.1999, 1 ♂; 11.ix.1999, 1 ♂; both IM. Valašské Klobouky, Dobšená NM (8), 10.ix.1999, 1 ♂, IM. Valašské Klobouky, Brumovka brook valley (9), 19.v.1999, 3 ♂♂, IM; 30.vi.1999, 2 ♂♂, MH; 9.ix.1999, 2 ♂♂ 2 ♀♀, IM. Poteč, Ploščiny NR (12), 4.vii.1999, 1 ♂ 1 ♀, IM; 13.ix.1999, 1 ♀, IM; 1.vi.2002, 3 ♀♀, IM; 24.viii.2002, 6 ♂♂ 4 ♀♀, PK. Valašské Klobouky, Bílé potoky NR (13), 16.vi.2006, 1 ♀, IM; 11.vii.2006, 1 ♂ 2 ♀♀, IM; 14.viii.2006, 1 ♂ 1 ♀, PK. Brumov, Uhličky (14), 1.ix.2004, 4 ♂♂ 7 ♀♀ 1 larva; 5.x.2004, 2 larvae; 28.v.2005, 3 ♂♂ 6 ♀♀; all IM; 28.vii.2005, 8 ♂♂ 8 ♀♀ 22 larvae; 4.ix.2005; 3 ♀♀; all PK. Nedašov, village (15), 3.vii.1999, 1 ♀, IM. Nedašov, Jalovcová stráň NR (17), 20.v.1999, 2 ♂♂; 3.vii.1999, 1 ♀; 10.ix.1999, 1 ♂; 6.ix.2005, 1 ♀; all IM. Nedašov, Kaňoury NM (18), 16.viii.2006, 2 ♂♂, PK. Bylnice, Bylničky (26), 24.vi.1982, 2 ♂♂ 1 ♀, PL. Bylnice, railway station environs (27), 11.ix.1999, 1 ♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 21.v.1999, 1 ♂; 12.ix.1999, 2 ♂♂ 1 ♀; all IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 1 ♀, IM. Horní Němčí, Drahy NR (48), 15.v.1998, 1 ♀; 21.vii.2002, 1 ♂ 1 ♀; all IM. Horní Němčí, Vinohrádky (49), 13.viii.2001, 4 ♂♂ 6 ♀♀ 3 larvae, PK; 23.v.2002, 2 ♂♂, IM & PK; 20.vii.2002, 4 ♀♀ 1 larva, IM. Bánov, Skalky hill (52), 21.viii.1984, 1 ♂, PL. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♀, IM & PK. Korytná, Lubná pond environs (56), 5.vii.2001, 1 ♂, IM. Strání, Obecnice hill (60), 23.v.2002, 1 ♂ 2 ♀♀, IM & PK. Strání, Důbrava hill (62), 7.vii.1980, 1 ♂, PL. Lopeník, U Zvonice NM (63), 3.ix.2005, 1 ♂, PK. Starý Hrozenkov, Skalka quarry (67), 8.viii.2007, 1 ♂ 1 ♀, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 8.viii.2007, 6 ♂♂ 7 ♀♀, IM. Vyškovec, Vyškovecké Bošačky (69), 27.vi.2004, 1 ♂, IM; 19.viii.2004, 4 ♂♂ 2 ♀♀, PK; 25.ix.2004, 2 ♀♀, PK; 21.v.2005, 4 ♂♂ 1 ♀ 4 larvae, IM; 3.ix.2005, 2 ♂♂ 1 ♀, PK. Vyškovec, Pod Hřibovňou NM (70), 28.vi.2004, 1 ♀, IM;

19.viii.2004, 2 ♂♂, PK; 21.v.2005, 1 ♂ 1 ♀ 2 larvae, IM; 8.ix.2005, 3 ♂♂ 4 ♀♀, IM. Radějov, Lučina (76), 13.v.1998, several ♂♂ ♀♀, IM. Kněždub, Čertoryje NNR (77, 79), 19.vi.1980, 1 ♀, PL; 22.v.2000, 5 ♂♂ 1 ♀, PK. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 10 ♂♂ 8 ♀♀, IM & PK. Radějov, Měsíční údolí valley (84), 20.viii.2002, 2 ♀♀, PK. Radějov, Kútky NR (86), 2.vi.1979, 3 ♂♂ 1 ♀, PL. Velká nad Veličkou, village (87), 9.ix.2000, 1 ♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 14.v.1998, 1 ♂; 13.vii.1998, 1 ♂; both IM. Suchov, Suchovské Mlýny (89), 6.v.2000, 1 ♀, IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 1 ♀, IM; 16.viii.2004, 3 ♂♂ 1 ♀, PK; 26.v.2005, 4 ♂♂, IM; 27.vii.2005, 2 ♂♂ 1 ♀ 7 larvae, IM; 1.ix.2005, 14 ♂♂ 12 ♀♀, IM. Javorník, loampit W of village (95), 24.v.2002, 1 ♂ 3 ♀♀, IM. Javorník, Jazevčí NNR (96), 6.v.2000, 10 ♂♂ 2 ♀♀; 19.vi.2000, 4 ♀♀; 10.ix.2000, 2 ♀♀; all IM. Javorník, Petruchovy Mlýny (97), 2.ix.2004, 6 ♀♀; 1.x.2004, 1 larva; 26.v.2005, 7 ♂♂ 1 ♀; 27.vii.2005, 7 ♂♂ 6 ♀♀ 5 larvae; 1.ix.2005, 1 ♂ 1 ♀; all IM. Javorník, Machová NR (102), 14.v.1998, 2 ♂♂, IM. Strání, Záhumenice NM (104), 24.v.2001, 10 ♂♂ 12 ♀♀, IM; 8.vi.2001, 2 ♂♂ 1 ♀, PL; 2.vii.2001, 6 ♂♂ 7 ♀♀, IM & PK; 9.viii.2001, 68 ♂♂ 59 ♀♀ 9 larvae, PK; 21.ix.2001, 4 ♂♂ 5 ♀♀, IM. Strání, Javorina NNR (106), 4.vii.2001, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in various grassland habitats throughout the area. **General distribution:** Palaearctic. **Host plants:** Poaceae (e.g. *Elytrigia repens*, *Dactylis glomerata*, *Holcus lanatus*, *H. mollis*, *Festuca arundinacea*). **Red List status:** –.

Dicranotropis (Leimonodite) divergens Kirschbaum, 1868

Published records. KMENT & MALENOVSKÝ (2008): Lopeník, Lopenické sedlo (64).

Additional material examined. Valašské Klobouky, Brumovka brook valley (9), 9.ix.1999, 1 ♀, IM. Poteč, Ploščiny NR (12), 24.viii.2002, 1 ♂, PK. Valašské Klobouky, Bílé potoky NR (13), 16.vi.2006, 21 ♂♂ 8 ♀♀; 11.vii.2006, 1 ♂; all IM. Nedašov, Jalovcová stráž NR (17), 6.ix.2005, 2 ♂♂ 1 ♀, IM. Nedašov, Kaňoury NM (18), 17.vi.2006, 3 ♂♂ 8 ♀♀, IM; 12.vii.2006, 10 ♂♂ 2 ♀♀, IM; 16.viii.2006, 4 ♂♂ 4 ♀♀, PK. Bylnice, Na Stráži (25), 16.vi.2006, 3 ♂♂ 7 ♀♀, IM. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 23 ♂♂ 13 ♀♀; 5.x.2004, 1 ♀; 28.v.2005, 3 ♂♂ 2 larvae; 28.vii.2005, 3 ♂♂ 5 ♀♀; 6.ix.2005, 14 ♂♂ 5 ♀♀; all IM. Lopeník, U Zvonice NM (63), 3.ix.2005, 1 ♂, PK. Lopeník, Lopenické sedlo (64), 27.vi.2004, 9 ♂♂ 5 ♀♀, IM; 25.ix.2004, 3 ♂♂, IM; 3.ix.2005, 13 ♂♂ 22 ♀♀, PK. Starý Hrozenkov, Skalka quarry (67), 8.viii.2007, 1 ♂, IM. Vyškovec, Vyškovecké Bošačky (69), 24.vii.2005, 1 ♂; 3.ix.2005, 3 ♀♀; all PK. Vyškovec, Pod Hřibovňou NM (70), 28.vi.2004, 2 ♂♂ 1 ♀; 8.ix.2005, 2 ♂♂ 3 ♀♀; all IM. Strání, Záhumenice NM (104), 24.v.2001, 1 ♂; 20.vii.2001, 1 ♂ 1 ♀; all IM. Strání, Javorina NNR (106), 4.vii.2001, 29 ♂♂ 19 ♀♀, IM & PK.

Distribution and frequency in the Bílé Karpaty PLA: Common in meadows and pastures in the relatively cool north-eastern and central parts of the area, absent from the south-west except the meadow on the top of the Mt Velká Javořina. **General distribution:** Mountain regions of Great Britain, central and south-eastern Europe, Caucasus, Kazakhstan. **Host plant:** *Festuca rubra*. **Red List status:** –.

Ditropis pteridis (Spinola, 1839)

Material examined. Bylnice, Bylničky (26), 24.vi.1982, 9 ♂♂ 10 ♀♀, PL.

Distribution and frequency in the Bílé Karpaty PLA: Documented from only one locality in the north-eastern part of the area. **General distribution:** European. **Host plant:** *Pteridium aquilinum*. **Red List status:** –.

Comments. *Ditropis pteridis* is an acidophilous species occurring locally only in some regions of the Czech Republic, namely northern and perhaps also southern Bohemia and the environs of Bzenec in south-eastern Moravia (LAUTERER 1980, MALENOVSKÝ 2006).

***Ditropsis flavipes* (Signoret, 1865)**

(VU)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79). MALENOVSKÝ & LAUTERER (2010): Bylnice, Na Stráži (25); Hluk, Babí hora NM (36); Blatnička, Milejovské louky meadows (39); Horní Němčí, Drahy NR (48); Strání, Obecnice hill (60); Lopeník, Mikulčín vrch hill (65); Vyskovec, Ve Vlčí NR (71); Radějov, Lučina (76); Kněždub, Čertoryje NNR (77, 79); Malá Vrbka, Výzkum hill (80); Velká nad Veličkou, Zahrady pod Hájem NNR (88); Suchov, Trnovský Mlýn (90); Velká nad Veličkou, towards Javorník (91); Javorník, SW slopes of Háj hill (93); Javorník, Nad Vápenkou NM (94); Javorník, Jazevčí NNR (96); Javorník, Výzkum hill (103); Strání, Záhumenice NM (104).

Additional material examined. Brumov, Uhličky (14), 28.v.2005, 1 ♂, IM. Nedašov, Kaňoury NM (18), 17.vi.2006, 1 ♂ 1 ♀, IM. Horní Němčí, Drahy NR (48), 15.v.1998, 2 ♂♂, IM; 13.viii.2001, 11 ♂♂ 10 ♀♀, PK; 21.ix.2001, 2 ♂♂, PK; 21.ix.2001, 1 ♀, PK; 21.vii.2002, 9 ♂♂ 6 ♀♀ 3 larvae, IM; 10.ix.2002, 3 ♂♂, IM; 22.v.–22.vi.2003, 1 ♂ 4 ♀♀, PT, KR; 24.vii.–22.viii.2003, 1 larva, PT, KR; 22.viii.–27.ix.2003, 1 ♀, PT, KR. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 1 ♀, IM. Radějov, Žerotín NM (73), 9.viii.2002, 1 ♂ 1 ♀, PK; 19.iv.2012, 1 larva, IM. Kněždub, Čertoryje NNR (77, 79), 22.v.2000, 1 ♀, PK. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♀, IM; 20.viii.2002, 2 ♂♂, PK. Radějov, Kútky NR (86), 2.vi.1979, 1 ♀, PL. Suchov, Suchovské Mlýny (89), 16.viii.2004, 1 ♀, PK; 1.ix.2005, 7 ♂♂ 1 ♀, IM. Nová Lhota, Fojtické Mlýny (98), 7.vii.1980, 1 ♀, PL. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread in dry grassland sites and warm species-rich meadows throughout the area; quite common in the south-western part, more local and rare in the north-east. **General distribution:** Europe (except the north), Asia Minor, southern Siberia, Kazakhstan, Mongolia. **Host plant:** *Bromus erectus*. **Red List status:** Vulnerable.

Comments. Most records of *Ditropsis flavipes* in the Czech Republic come from south-eastern Moravia; the species is, however, also known from some localities in northern and southern Bohemia (MALENOVSKÝ & LAUTERER 2010).

***Euconomelus lepidus* (Boheman, 1847)**

(EN)

Material examined. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 5 ♂♂ 2 ♀♀; 8.viii.2007, 2 ♂♂; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Sporadic and extremely local: recorded from a small stand of *Eleocharis palustris* subsp. *palustris* in only one site in the central part of the area (a wet depression in an abandoned quarry). **General distribution:** Palaearctic except the south-west. **Host plant:** *Eleocharis palustris*. **Red List status:** Endangered.

Comments. *Euconomelus lepidus* is probably a quite rare and local species in the Czech Republic; the few available records are from western and central Bohemia (Soos NNR near Františkovy Lázně and Čelákovice – DLABOLA 1954 and unpublished records from the Moravian Museum, Brno) and southern Moravia (Mohelno, Valeč, Brno, and Milovice – LAUTERER 1980).

***Euides alpina* (Wagner, 1948)**

(CR)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Radějovka brook valley (79) [as *Euides basilinea*, misidentified].

Material examined. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 18.vi.2000, 2 ♀♀ 1 larva, IM & PK. Javorník, loampit W of village (95), 24.v.2002, 1 ♂ 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Collected in only two small sites in the south-western part of the area: in the floodplain of the Radějovka brook and in a spring fen in an abandoned loampit. **General distribution:** Central Europe, Caucasus, central Asia. **Host plant:** *Phragmites australis*. **Red List status:** Critically endangered.

Comments. In central Europe, *E. alpina* is only known from a few records but may be under-recorded (HOLZINGER *et al.* 2003). In the Czech Republic, its distribution appears largely restricted to lowlands of southern Moravia: the only two previously known localities include the Allahovy rybníky ponds between Charvátská Nová Ves and Hlohovec in the Dolnomoravský úval Lowland, and Litobratčice in the Dyjsko-svratecký úval Lowland (LAUTERER 1980, 1983).

***Euides basilinea* (Germar, 1821)**

(NT)

Material examined. Suchov, Suchovské Mlýny (89), 6.v.2000, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Recorded from only one site in the south-western part of the area: a spring fen overgrown with reed. **General distribution:** Europe except the Iberian and Appenine peninsulas, Kazakhstan. **Host plant:** *Phragmites australis*. **Red List status:** Near-threatened.

Comments. Based on material in museum collections, *Euides basilinea* is widely distributed in the Czech Republic, although quite local (published data are scarce, e.g. MALENOVSKÝ 2006). The specimens published under this name from the Čertoryje NNR by MALENOVSKÝ (2001) had been misidentified and belong to *E. alpina* (see above).

***Eurybregma nigrolineata* Scott, 1875**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Radějovka brook valley (79).

Additional material examined. Valašské Klobouky, Bílé potoky NR (13), 16.vi.2006, 1 ♀, IM. Nedašov, Jalovcová stráň NR (17), 20.v.1999, 1 larva, IM. Lopeník, Lopenické sedlo (64), 21.v.2005, 1 ♀, IM. Malá Vrbka, Výzkum hill (80), 18.v.2002, 1 ♀, IM. Velká nad Veličkou, towards Javorník (91), 10.vi.1982, 1 ♂, PL. Javorník, Jazevčí NNR (96), 6.v.2000, 7 ♂♂ 12 ♀♀; 19.vi.2000, 1 ♀; all IM. Strání, Záhumenice NM (104), 8.vi.2001, 1 ♀, PL. Strání, Javorina NNR (106), 4.vii.2001, 1 ♀, PK.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area but quite uncommon; largely concentrated along waysides and in ruderal or eutrophicated grassland. **General distribution:** Eurosiberian. **Host plants:** Tall-growing Poaceae, particularly *Elytrigia repens*. **Red List status:** –.

***Eurysella brunnea* (Melichar, 1896)**

(VU)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Nedašov, Jalovcová stráň NR (17), 3.vii.1999, 1 ♂, IM. Strání, Důbrava hill (62), 7.vii.1980, 1 ♂, PL. Radějov, Kútky NR (86), 2.vi.1979, 1 ♀, PL.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread throughout the area but rare and local or under-recorded due to an epigeic way of life; in meadows in warm and dry sites. **General distribution:** Europe except the north and south-west. **Host plant:** *Brachypodium pinnatum*. **Red List status:** Vulnerable.

Comments. Most Czech records of *E. brunnea* are from undergrowth of open xerothermophilous woodland in southern Moravia (LAUTERER 1980) but the species is present also in dry grasslands of the České středohoří Hills in northern Bohemia (PREISLER & LAUTERER 2003).

Eurysula lurida (Fieber, 1866)

Material examined. Valašské Klobouky, Javorůvky NR (7), 24.viii.2002, 1 ♀, PK. Valašské Klobouky, Dobšená NM (8), 22.v.1999, 1 ♀, IM. Blatnička, Milejovské louky meadows (39), 24.v.2009, 2 ♀♀, PB. Strání, Důbrava hill (62), 7.vii.1980, 1 ♂ 2 ♀♀, PL. Vyškovec, Vyškovecké Bošačky (69), 27.vi.2004, 1 ♀, IM. Javorník, Petruchovy Mlýny (97), 26.v.2005, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread throughout the area but quite rare and local or under-recorded due to an epigeic way of life; in neglected grassland and forest clearings. **General distribution:** Palearctic. **Host plants:** *Calamagrostis epigejos*, *C. canescens*. **Red List status:** –.

Florodelphax leptosoma (Flor, 1861)

(NT)

Material examined. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 2 ♂♂ 3 ♀♀, IM. Valašské Klobouky, Brumovka brook valley (9), 9.ix.1999, 1 ♂, IM. Nedašov, Jalovcová stráň NR (17), 10.ix.1999, 1 ♂, IM; 25.vi.2002, 1 ♀, PK. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 1 ♀, IM. Nedašov, Pod Cigánem NM (30), 5.x.2004, 2 ♀♀, IM. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 1 ♂, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 2 ♂♂, IM; 10.ix.2002, 3 ♂♂ 4 ♀♀, IM. Komňa, Lom Rasová NM (54), 5.vii.2001, 6 ♂♂ 6 ♀♀, IM. Lopeník, U Zvonice NM (63), 25.ix.2004, 7 ♂♂ 2 ♀♀, IM. Radějov, Kútky NR (86), 8.ix.1998, 1 ♀, IM. Javorník, loampit W of village (95), 24.v.2002, 1 ♀, IM. Javorník, Jazevčí NNR (96), 6.v.2000, 1 ♀; 10.ix.2000, 1 ♀; both IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common in spring fens throughout the area. **General distribution:** Europe except the north, Asia Minor. **Host plants:** *Juncus* spp. **Red List status:** Near-threatened.

Hyledelphax elegantula (Boheman, 1847)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Valašské Klobouky, Brumovka brook valley (9), 19.v.1999, 1 ♂, IM. Poteč, Ploščiny NR (12), 17.viii.2006, 1 ♂, PK. Valašské Klobouky, Bílé potoky NR (13), 16.vi.2006, 1 ♂ 1 ♀, IM. Nedašov, Jalovcová stráň NR (17), 1.ix.2004, 1 ♂; 28.v.2005, 4 ♂♂ 1 ♀; 6.ix.2005, 1 ♂; all IM. Nedašov, Kaňúr hill and Hrušová dolina valley (19), 20.v.1999, 5 ♂♂, IM. Lopeník, Lopenické sedlo (64), 21.v.2005, 1 ♀, IM. Vyškovec, Pod Hřibovňou NM (70), 19.viii.2004, 1 ♂, PK. Javorník, Jazevčí NNR (96), 6.v.2000, 2 ♂♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area; mostly found in shaded grassland under solitary trees and shrubs scattered in meadows.

General distribution: Eurosiberian. **Host plants:** Poaceae (e.g. *Avenella flexuosa*, *Brachypodium pinnatum*, *Calamagrostis arundinacea*, *Molinia caerulea* agg., *Holcus mollis*). **Red List status:** –.

***Jassidaeus lugubris* (Signoret, 1865)**

(VU)

Material examined. . Kněždub, Čertoryje NNR, Járkovec brook valley (77), 10.ix.2008, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Only one macropterous specimen was recorded at a meadow margin in the south-western part of the area.

General distribution: Southern Europe, Kazakhstan. **Host plants:** Fine-leaved *Festuca* spp. **Red List status:** Vulnerable.

Comments. *Jassidaeus lugubris* is a characteristic species for narrow-leaved dry grasslands, usually on rocky hillsides. It is locally common e.g. in south-western Moravia, the Pavlovské vrchy Hills, the environs of Brno, and in central Bohemia (e.g. DLABOLA 1954, LAUTERER 1957, MALENOVSKÝ 2006) but its presence in the Bílé Karpaty PLA appears only accidental.

***Javesella discolor* (Boheman, 1847)**

Material examined. Poteč, Ploščiny NR (12), 4.vii.1999, 2 ♀♀, IM. Nedašov, Kaňúr hill and Hrušová dolina valley (19), 20.v.1999, 4 ♂♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Restricted to the cool, north-easternmost tip of the area, apparently absent in the south-west; in shaded grassland at forest margins. **General distribution:** Holarctic. **Host plants:** Poaceae (e.g. *Avenella flexuosa*, *Deschampsia cespitosa*, *Calamagrostis canescens*). **Red List status:** –.

***Javesella dubia* (Kirschbaum, 1868)**

Published records. LANG (1945a): Březová, Kalábová NM (58) [cited as “*Liburnia forcipata* Boh.”, misidentified]. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, U Rybníků (6), 22.v.1999, 1 ♂; 10.ix.1999, 1 ♂ 1 ♀; all IM. Valašské Klobouky, Javorůvky NR (7), 22.v.1999, 1 ♂ 2 ♀♀, IM. Valašské Klobouky, Brumovka brook valley (9), 19.v.1999, 1 ♂ 1 ♀, IM. Valašské Klobouky, Královec hill (11), 10.ix.1999, 2 ♂♂ 4 ♀♀, IM. Poteč, Ploščiny NR (12), 1.vi.2002, 2 ♂♂ 2 ♀♀, IM; 17.viii.2006, 2 ♂♂ 2 ♀♀, PK. Valašské Klobouky, Bílé potoky NR (13), 14.viii.2006, 2 ♂♂, PK. Brumov, Uhličky (14), 30.vi.2004, 1 ♂, IM. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 1 ♂; 5.x.2004, 1 larva; 6.ix.2005, 3 ♂♂ 1 ♀; all IM. Korytná, Březi (46), 5.vii.2001, 1 ♂ 2 ♀♀, IM. Horní Němčí, Drahý NR (48), 10.ix.2002, 2 ♀♀, IM. Horní Němčí, Lesná hill (51), 15.v.1998, 1 ♂, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 16.v.1998, several ♂♂ ♀♀, IM. Lopeník, Lopenické sedlo (64), 21.v.2005, 1 ♂, IM; 3.ix.2005, 1 ♂ 1 ♀, PK. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♂ 1 ♀; 8.viii.2007, 4 ♂♂ 1 ♀; 22.ix.2007, 1 ♂; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 2 ♂♂ 3 ♀♀; 8.viii.2007, 22 ♂♂ 18 ♀♀; 22.ix.2007, 1 ♀; all IM. Vyškovec, Vyškovecké Bošačky (69), 21.v.2005, 1 ♂, IM. Vyškovec, Pod Hřibovňou NM (70), 25.ix.2004, 6 ♂♂ 3 ♀♀, PK; 21.v.2005, 1 ♂ 2 ♀♀; 8.ix.2005, 1 ♂, IM. Radějov, Kútky NR (86), 2.vi.1979, 1 ♀, PL. Javorník, village (92), 8.viii.2001, 7 ♂♂ 11 ♀♀, PK. Javorník, loampit W of village (95), 24.v.2002, 1 ♂ 1 ♀, IM. Javorník, Jazevčí NNR (96), 6.v.2000, 4 ♂♂ 2 ♀♀, IM. Strání, Záhumenice NM (104), 16.v.1998, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in spring fens, wet depressions in meadows and pastures, wet ruderal sites, on shores of ponds, and in forest clearings throughout the area. **General distribution:** Palaearctic. **Host plants:** Poaceae (e.g. *Agrostis stolonifera*, *A. capillaris*). **Red List status:** –.

***Javesella forcipata* (Boheman, 1847)**

Material examined. Valašské Klobouky, U Rybníků (6), 22.v.1999, 1 ♂, IM. Valašské Klobouky, Javorůvky NR (7), 22.v.1999, 4 ♂♂ 2 ♀♀, IM. Valašské Klobouky, Brumovka brook valley (9), 9.ix.1999, 1 ♂, IM. Nedašov, Kaňúr hill and Hrušová dolina valley (19), 20.v.1999, 1 ♂, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 21.v.1999, 1 ♂, IM; 1.vii.1999, 2 ♂♂ 1 ♀, PK. Starý Hrozenkov, Hrozenkovské terasy (68), 8.viii.2007, 1 ♂ 2 ♀♀, IM. Javorník, Jazevčí NNR (96), 6.v.2000, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area but probably more common only in its north-eastern part and local and rare in the south-west; mostly found in spring fens and wet depressions in meadows and pastures. **General distribution:** Palaearctic except the south. **Host plants:** Poaceae (e.g. *Deschampsia cespitosa*, *Holcus mollis*). **Red List status:** –.

***Javesella obscurella* (Boheman, 1847)**

Published records. LANG (1945a): Březová, Kalábová NM (58).

Additional material examined. Nedašov, Kaňúr hill and Hrušová dolina valley (19), 20.v.1999, 5 ♂♂, IM. Horní Němčí, Vinohrádky (49), 13.viii.2001, 1 ♂ 1 ♀, PK.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed but rare and local; in spring fens disturbed by cattle. **General distribution:** Holarctic. **Host plants:** Poaceae (e.g. *Alopecurus geniculatus* and *Glyceria fluitans*). **Red List status:** –.

***Javesella pellucida* (Fabricius, 1794)**

Published records. LANG (1945a): Korytná, Lipiny forest (38); Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99); Suchá Loz, Studený vrch hill (57). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79). KMENT & MALENOVSKÝ (2008): Lopeník, Lopenické sedlo (64).

Additional material examined. Petrůvka, U Petrůvky NM (3), 6.viii.1999, 1 ♂, PK. Valašské Klobouky, Brumovská street (5), 19.v.1999, 1 ♂ 1 ♀, IM. Valašské Klobouky, U Rybníků (6), 22.v.1999, 2 ♂♂ 1 ♀, IM. Valašské Klobouky, Javorůvky NR (7), 22.v.1999, 5 ♂♂ 5 ♀♀; 2.vii.1999, 1 ♂; 11.ix.1999, 2 ♀♀, all IM. Valašské Klobouky, Brumovka brook valley (9), 19.v.1999, 4 ♂♂ 2 ♀♀; 9.ix.1999, 1 ♀; all IM. Poteč, Ploščiny NR (12), 4.vii.1999, 1 ♀, IM; 1.vi.2002, 1 ♂ 2 ♀♀, IM; 17.viii.2006, 1 ♂, PK. Valašské Klobouky, Bílé potoky NR (13), 19.v.1999, 1 ♀, IM; 30.vi.1999, 1 ♂, PK. Brumov, Uhličky (14), 28.vii.2005, 2 ♂♂, PK. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 2 ♂♂, IM. Nedašov, Kaňoury NM (18), 12.vii.2006, 1 ♀, IM. Nedašov, Kaňúr hill and Hrušová dolina valley (19), 20.v.1999, 7 ♂♂ 2 ♀♀, IM. Brumov, Kloboucká street (24), 28.vii.2005, 2 ♀♀, PK. Bylnice, Bylničky (26), 24.vi.1982, 1 ♂, PL. Bylnice, railway station environs (27), 21.v.1999, 1 ♀, IM. Nedašov, Pod Cigánem NM (30), 28.vii.2005, 1 ♀, IM. Blatnička, Milejovské louky meadows (39), 11.vii.2009, 3 ♂♂ 3 ♀♀, PB. Suchov, Búrová NNM (43), 13.vii.1998, 1 ♂ 1 ♀, IM. Horní Němčí, Hornoněmčanský háj forest (45), 7.vii.1980, 1 ♀, PL. Korytná, Březí (46), 5.vii.2001, 1 ♀, IM. Suchov, Kazivec brook valley (47), 15.v.1998, 1 ♀, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 1 ♀, IM; 13.viii.2001, 1 ♂ 1 ♀, PK; 21.vii.2002, 27 ♂♂ 23 ♀♀, IM. Horní Němčí, Vinohrádky (49), 13.viii.2001, 6 ♂♂ 4 ♀♀, PK; 20.vii.2002, 42 ♂♂ 55 ♀♀, IM; 10.ix.2002, 2 ♀♀, IM; 24.vii.–22.viii.2003, 1 ♀, PT, KR. Horní

Němčí, Lesná hill (51), 15.v.1998, 1 ♀, IM. Komňa, Lom Rasová NM (54), 5.vii.2001, 1 ♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 16.v.1998, several ♂♂ ♀♀; 10.vii.1998, 1 ♀; all IM. Strání, Obecnice hill (60), 20.vii.2002, 6 ♂♂, IM. Lopeník, U Zvonice NM (63), 24.vii.2005, 1 ♀, IM. Lopeník, Lopenické sedlo (64), 27.vi.2004, 1 ♀; 21.v.2005, 14 ♂♂ 11 ♀♀; 24.vii.2005, 7 ♂♂ 2 ♀♀; all IM. Lopeník, Mikulčin vrch hill (65), 25.ix.2004, 1 ♀; 24.vii.2005, 1 ♂ 1 ♀; all IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 3 ♂♂ 5 ♀♀; 8.viii.2007, 1 ♂; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 11 ♂♂ 15 ♀♀; 8.viii.2007, 1 ♀; all IM. Výškovec, Pod Hřibovňou NM (70), 19.viii.2004, 3 ♀♀, PK; 21.v.2005, 1 ♂ 5 ♀♀ 1 larva, IM. Výškovec, Ve Vlčí NR (71), 22.v.2005, 2 ♂♂ 1 ♀, IM. Radějov, Žerotín NM (73), 19.iv.2012, 7 ♂♂ 2 ♀♀, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♀; 28.vii.2000, 1 ♀; both IM. Radějov, Lučina (76), 13.v.1998, several ♂♂ ♀♀; 14.vii.1998, 1 ♂; all IM. Lipov, Hájová hill (78), 19.iv.2012, 7 ♂♂ 5 ♀♀, IM. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 19 ♂♂ 14 ♀♀, IM & PK. Hrubá Vrbka, football ground (82), 28.vii.2001, 1 ♂, IM. Radějov, Veselka hill (85), 11.vii.1998, 5 ♂♂ 3 ♀♀, IM. Radějov, Kútky NR (86), 2.vi.1979, 1 ♀, PL; 11.vii.1998, 13 ♂♂ 1 ♀, IM; 8.ix.1998, 1 ♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 14.v.1998, several ♂♂ ♀♀; 13.vii.1998, 4 ♂♂ 6 ♀♀; all IM. Suchov, Suchovské Mlýny (89), 18.viii.2004, 1 ♂ 3 ♀♀, PK; 26.v.2005, 1 ♀, IM; 27.vii.2005, 3 ♀♀, IM. Suchov, Trnovský Mlýn (90), 16.viii.2004, 2 ♂♂ 2 ♀♀, PK; 26.v.2005, 1 ♂, IM; 27.vii.2005, 2 ♂♂ 2 ♀♀, IM; 1.ix.2005, 1 ♀, IM. Javorník, village (92), 8.viii.2001, 3 ♂♂ 1 ♀, PK. Javorník, Nad Vápenkou NM (94), 9.vii.1998, 1 ♂, IM. Javorník, loampit W of village (95), 24.v.2002, 1 ♂, IM. Javorník, Jazevčí NNR (96), 6.v.2000, 10 ♂♂ 5 ♀♀; 19.vi.2000, 3 ♂♂; all IM. Javorník, Petruchovy Mlýny (97), 2.ix.2004, 1 ♂ 1 ♀; 27.vii.2005, 5 ♂♂ 8 ♀♀; 1.ix.2005, 1 ♂; all IM. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 12 ♂♂ 4 ♀♀, IM. Javorník, Machová NR (102), 14.v.1998, many ♂♂ ♀♀, IM. Strání, Záhumenice NM (104), 24.v.2001, 1 ♀, IM; 9.viii.2001, 5 ♂♂ 5 ♀♀, PK. Strání, Javorina NNR (106), 12.vii.1998, 3 ♂♂; 4.vii.2001, 1 ♂ 1 ♀; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; eurytopic in various grassland, wetland and ruderal habitats. **General distribution:** Holarctic. **Host plants:** Various Poaceae, Cyperaceae and Juncaceae. **Red List status:** —.

Kelisia confusa Linnavuori, 1957

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79) [cited as *Kelisia pallidula*, misidentified]. MALENOVSKÝ & LAUTERER (2010): Kněždub, Čertoryje NNR, Járkovec brook valley (77); Kněždub, Čertoryje NNR, Radějovka brook valley (79); Radějov, Kútky NR (86).

Distribution and frequency in the Bílé Karpaty PLA: Restricted to the south-western part of the area; rare and local in quite eutrophicated spring fens and wet depressions in brook floodplains. **General distribution:** Europe except the north and south-west. **Host plants:** *Carex acutiformis* and *C. elata*. **Red List status:** Not evaluated.

Comments. In the Czech Republic, *K. confusa* has been recorded to date only from southern Moravia (MALENOVSKÝ & LAUTERER 2010).

Kelisia guttula (Germar, 1818)

(VU)

Published records. LANG (1945a): Suchá Loz, Studený vrch hill (57); Březová, Kalábová NM (58). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 2 ♂♂ 3 ♀♀, IM. Valašské Klobouky, Brumovka brook valley (9), 9.ix.1999, 3 ♂♂, IM. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 2 ♂♂ 4 ♀♀, IM. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 2 ♂♂ 2 ♀♀, IM; 25.vi.2002, 1 ♀, PK. Bojkovice (20), 1943, 1 ♂ 2 ♀♀, VL. Brumov, Kloboucká street (24), 5.x.2004, 1 ♀, IM. Nedašov, Pod Cigánem NM (30), 28.vii.2005, 2 ♀♀, IM. Korytná, Břeží (46), 5.vii.2001, 2 ♂♂ 3 ♀♀, IM. Horní Němčí,

Drahy NR (48), 30.vi.2001, 8 ♂♂ 6 ♀♀, IM & PK; 13.viii.2001, 2 ♀♀, PK; 21.ix.2001, 4 ♂♂ 8 ♀♀, PK; 21.vii.2002, 1 ♂ 2 ♀♀, IM; 10.ix.2002, 17 ♂♂ 17 ♀♀, IM. Komňa, Lom Rasová NM (54), 5.vii.2001, 7 ♂♂ 7 ♀♀, IM. Březová, Kalábová NM (58), 4.vii.2001, 1 ♂ 1 ♀, IM. Starý Hrozenkov, Skalka quarry (67), 22.ix.2007, 1 ♂, IM. Radějov, Žerotín NM (73), 11.vii.1998, 1 ♂, IM. Kněždub, Čertoryje NNR, Járkovec brook valley (77), 22.vi.2008, 1 ♂, KD & KF. Radějov, Kútky NR (86), 8.ix.1998, 2 ♂♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 19.vi.2000, 1 ♂, PK. Suchov, Suchovské Mlýny (89), 1.x.2004, 5 ♂♂ 2 ♀♀, IM. Javorník, Nad Vápenkou NM (94), 7.ix.2002, 3 ♂♂, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂ 1 ♀; 10.ix.2000, 2 ♂♂; all IM. Javorník, Petruchovy Mlýny (97), 29.vi.2001, 1 ♀; 23.ix.2001, 3 ♂♂; 7.ix.2001, 1 ♀; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common throughout the area; in spring fens and dry or intermittently wet grassland. **General distribution:** Eurosiberian. **Host plant:** *Carex flacca*. **Red List status:** Vulnerable.

Comments. *Kelisia guttula* is generally a quite local species in the Czech Republic, largely restricted to regions with heavy calcareous soils. Besides the Bílé Karpaty PLA, it is also known e.g. from the Elbe River lowland in central Bohemia, Jičín environs in north-eastern Bohemia, and the Hostýnské vrchy Hills and the Moravskoslezské Beskydy Mts. in eastern Moravia (DLABOLA 1954 and unpublished data from the Moravian Museum, Brno and Muséum national d'Histoire naturelle, Paris).

***Kelisia guttulifera* (Kirschbaum, 1868)**

(EN)

Material examined. Nedašov, Pod Cigánem NM (30), 5.x.2004, 1 ♀, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 8.viii.2007, 1 ♂; 22.ix.2007, 1 ♂ 3 ♀♀; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Sporadic and local: found only at two small sites in the north-eastern and central parts of the area; in both cases associated with spring fens disturbed by cattle. **General distribution:** Europe, except the north. **Host plants:** *Carex* spp. (*C. sylvatica*, *C. remota*, *C. elongata*, *C. vulpina*, *C. distans*, and *C. paniculata*). **Red List status:** Endangered.

Comments. *Kelisia guttulifera* is a poorly documented species in the Czech Republic; besides the above cited records from the Bílé Karpaty PLA, the only confirmed findings from the country are from the Hostýnské vrchy Hills and the Svitava river valley near Brno (DLABOLA 1956 and unpublished material from the Moravian Museum, Brno).

***Kelisia irregulata* Haupt, 1935**

(VU)

(Fig. 3)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77); Kněždub, Čertoryje NNR, Radějovka brook valley (79).

Additional material examined. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 3 ♂♂ 2 ♀♀, IM. Valašské Klobouky, Dobšená NM (8), 10.ix.1999, 3 ♂♂ 3 ♀♀, IM. Valašské Klobouky, Brumovka brook valley (9), 9.ix.1999, 1 ♀, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 1 ♂ 3 ♀♀, IM. Nedašov, Jalovcová stráň NR (17), 10.ix.1999, 10 ♂♂ 11 ♀♀; 1.ix.2004, 2 ♂♂; 6.ix.2005, 1 ♂ 1 ♀; all IM; 25.vi.2002, 2 ♂♂ 3 ♀♀; 16.viii.2006, 2 ♂♂ 2 ♀♀; all PK. Horní Němčí, Drahy NR (48), 13.viii.2001, 1 ♂ 2 ♀♀, PK; 21.ix.2001, 1 ♂, IM; 24.vii.–22.viii.2003, 1 ♀, PT, KR. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 2 ♂♂, IM. Lopeník, U Zvonice NM (63), 25.ix.2004, 1 ♂ 4 ♀♀, IM; 3.ix.2005, 1 ♀, PK. Kněždub, Kněždubský háj forest (75), 17.viii.2000, 1 ♂ 1 ♀, PK. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 1 ♂, IM & PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 1 ♂, IM. Suchov, Trnovský Mlýn (90), 1.x.2004,

1 ♀; 1.ix.2005, 1 ♀; both IM. Javorník, loampit W of village (95), 7.ix.1998, 1 ♀, IM. Javorník, Jazevčí NNR (96), 10.ix.2000, 3 ♂♂ 5 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common in calcareous spring fens and dry to intermittently wet grassland throughout the area. **General distribution:** Central Europe. **Host plant:** *Carex flacca*. **Red List status:** Vulnerable.

Comments. *Kelisia irregulata* has not been recorded in the Czech Republic outside of the Bílé Karpaty PLA yet.

Kelisia monoceros Ribaut, 1934

(EN)

Published records. MALENOVSKÝ (2001), MALENOVSKÝ & LAUTERER (2010): Kněždub, Čertoryje NNR, Radějovka brook valley (79).

Distribution and frequency in the Bílé Karpaty PLA: Recorded from only one small site in the south-western part of the area: a disturbed wet depression in the Radějovka brook floodplain in the Čertoryje NNR. **General distribution:** European. **Host plants:** *Carex* spp. (*C. muricata* agg., *C. otrubae*, and *C. sempervirens*). **Red List status:** Endangered.

Comments. *Kelisia monoceros* is quite widely distributed in the Czech Republic, occurring locally e.g. in disturbed wet meadows, salt marshes, dry grassland and open woodland in southern and central Moravia and central and northern Bohemia (MALENOVSKÝ & LAUTERER 2010).

Kelisia pallidula (Boheman, 1847)

(VU)

Published records. LANG (1945a): Korytná, Lipiny forest (38).

Additional material examined. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 7 ♂♂ 3 ♀♀, IM. Valašské Klobouky, Dobšená NM (8), 10.ix.1999, 1 ♂ 3 ♀♀, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 1 ♂ 2 ♀♀, IM. Nedašov, Jalovcová stráž NR (17), 10.ix.1999, 7 ♂♂ 7 ♀♀; 1.ix.2004, 1 ♀; 6.ix.2005, 2 ♂♂ 3 ♀♀; all IM; 25.vi.2002, 1 ♂; 16.viii.2006, 3 ♂♂ 1 ♀; all PK. Horní Němčí, Drahy NR (48), 13.viii.2001, 2 ♂♂ 1 ♀; 21.ix.2001, 1 larva; both PK; 10.ix.2002, 1 ♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 1 ♂, IM. Lopeník, U Zvonice NM (63), 25.ix.2004, 15 ♂♂ 5 ♀♀, IM; 3.ix.2005, 2 ♂♂, PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 1 ♂ 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area; locally common in calcareous spring fens. **General distribution:** Eurosiberian. **Host plant:** *Carex panicea*. **Red List status:** Vulnerable.

Comments. The distribution of *K. pallidula* in the Czech Republic has been insufficiently documented in literature so far; based on unpublished museum material and recent field surveys, the species appears quite widespread even if local, e.g. in the Krkonoše, Jizerské hory and Jeseníky Mts., the Bohemian-Moravian Highlands as well as the lowlands of the Elbe River in central Bohemia and the Třeboň basin in southern Bohemia.

***Kelisia praecox* Haupt, 1935**

(VU)

Published records. MALENOVSKÝ & LAUTERER (2010): Valašské Klobouky, Javorůvky NR (7); Valašské Klobouky, Brumovka brook valley (9); Valašské Klobouky, Bílé potoky NR (13); Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28); Sidonie, Vlárský průsmyk pass (33); Suchov, Trnovský Mlýn (90); Javorník, Jazevčí NNR (96); Javorník, Machová NR (102).

Additional material examined. Valašské Klobouky, U Rybníků (6), 10.ix.1999, 1 ♀, IM. Valašské Klobouky, Dobšená NM (8), 10.ix.1999, 15 ♂♂ 13 ♀♀, IM. Valašské Klobouky, Brumovka brook valley (9), 19.v.1999, 3 ♀♀; 9.ix.1999, 1 ♂ 6 ♀♀; all IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 1 ♂ 1 ♀, IM. Bylnice, railway station environs (27), 11.ix.1999, 4 ♂♂ 1 ♀, IM. Sidonie, Vlárka brook valley above village (31), 8.ix.1981, 1 ♂, LP. Horní Němčí, Drahy NR (48), 21.ix.2001, 1 ♂, PK; 10.ix.2002, 1 ♂ 3 ♀♀, IM. Malá Vrbka, Výzkum hill (80), 4.x.2002, 2 ♂♂, PK.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area; locally common in spring fens and intermittently wet places in meadows. **General distribution:** Eurosiberian. **Host plants:** *Carex* spp. (e.g. *C. brizoides* and *C. caryophyllea* or *C. praecox*). **Red List status:** Vulnerable.

Comments. *Kelisia praecox* is a local but quite frequent species in south-eastern Moravia; it appears widespread in Bohemia as well (MALENOVSKÝ & LAUTERER 2010).

***Kelisia sima* Ribaut, 1934**

(EN)

Published records. MALENOVSKÝ & LAUTERER (2010): Valašské Klobouky, Javorůvky NR (7).

Distribution and frequency in the Bílé Karpaty PLA: Known from only one calcareous spring fen in the north-easternmost part of the area. **General distribution:** European. **Host plant:** *Carex flava*. **Red List status:** Endangered.

Comments. Despite a common occurrence of its host plant in the Bílé Karpaty PLA, *K. sima* appears to be extremely rare in the region. Most other records from the Czech Republic are from peaty soils in the Bohemian-Moravian Highlands, Šumava Mts. and the environs of Česká Lípa in northern Bohemia (MALENOVSKÝ & LAUTERER 2010).

***Kelisia vittipennis* (J. Sahlberg, 1868)**

(VU)

Published records. LANG (1945a): Březová, Kalábová NM (58) [cited as "*Kelisia guttula* Germ.", partly misidentified]. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 9 ♂♂ 16 ♀♀, IM; 24.viii.2002, 5 ♂♂ 14 ♀♀, PK. Valašské Klobouky, Dobšená NM (8), 10.ix.1999, 3 ♂♂ 7 ♀♀, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 10 ♂♂ 30 ♀♀, IM. Nedašov, Jalovcová stráň NR (17), 3.vii.1999, 1 ♂ 1 ♀; 10.ix.1999, 6 ♂♂ 18 ♀♀; all IM; 25.vi.2002, 9 ♂♂ 12 ♀♀; 16.viii.2006, 3 ♂♂ 2 ♀♀; all PK. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 1 ♀, IM. Nedašov, Pod Cigánem NM (30), 28.vii.2005, 1 ♂ 1 ♀; 6.ix.2005, 1 ♀; all IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 3 ♂♂ 3 ♀♀; 10.ix.2002, 10 ♂♂ 7 ♀♀; all IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 1 ♂ 7 ♀♀, IM. Lopeník, U Zvonice NM (63), 25.ix.2004, 1 ♂ 1 ♀, IM. Radějov, Kútky NR (86), 11.vii.1998, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area; locally common in calcareous spring fens with stands of *Eriophorum angustifolium* and *E. latifolium*. **General distribution:** Eurosiberian. **Host plants:** *Eriophorum* spp. **Red List status:** Vulnerable.

Comments. *Kelisia vittipennis* is a stenotopic species of raised and intermediate bogs, peaty meadows and calcareous spring fens. It is widespread and often locally abundant in the Czech Republic, particularly in mountains and highlands, but invariably confined to habitats generally valuable from a nature conservationist viewpoint.

***Kosswigianella exigua* (Boheman, 1847)**

(NT)

Material examined. Lopeník, U Zvonice NM (63), 24.vii.2005, 1 ♀, IM. Lopeník, Lopenické sedlo (64), 24.vii.2005, 1 ♀, IM. Radějov, Žerotín NM (73), 19.iv.2012, 1 ♀, IM. Malá Vrbka, Výzkum hill (80), 27.vi.2002, 2 ♂♂, IM. Suchov, Trnovský Mlýn (90), 16.viii.2004, 1 ♂ 1 ♀, PK; 27.vii.2005, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Known from a few records in the central and south-western part of the area; rare and local on low grass in pastures and on xerothermic hillsides. **General distribution:** European. **Host plants:** Fine-leaved *Festuca* spp. (e.g. *F. ovina*). **Red List status:** Near-threatened.

***Laodelphax striatella* (Fallén, 1826)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 2 ♂♂ 1 ♀; 13.ix.1999, LT, 1 ♂; all IM. Valašské Klobouky, U Rybníků (6), 10.ix.1999, 1 ♀, IM. Valašské Klobouky, Javorůvky NR (7), 22.v.1999, 1 ♀; 11.ix.1999, 3 ♀♀; all IM. Valašské Klobouky, Brumovka brook valley (9), 19.v.1999, 3 ♀♀; 9.ix.1999, 1 ♂ 5 ♀♀; all IM. Valašské Klobouky, Královec hill (11), 10.ix.1999, 1 ♂ 1 ♀, IM. Poteč, Ploščiny NR (12), 13.ix.1999, 1 ♂ 10 ♀♀, IM; 24.viii.2002, 8 ♂♂ 1 ♀, PK; 17.viii.2006, 1 ♂ 2 ♀♀, PK. Valašské Klobouky, Bílé potoky NR (13), 9.ix.1999, 1 ♂; 11.vii.2006, 4 ♀♀; all IM. Brumov, Uhličky (14), 1.ix.2004, 4 ♂♂ 1 ♀, IM; 28.vii.2005, 4 ♀♀, PK. Nedašov, Jalovcová stráň NR (17), 10.ix.1999, 2 ♂♂; 1.ix.2004, 2 ♂♂ 2 ♀♀; 6.ix.2005, 1 ♂ 1 ♀; all IM; 16.viii.2006, 2 ♂♂ 1 ♀, PK. Nedašov, Kaňoury NM (18), 12.vii.2006, 2 ♂♂ 2 ♀♀, IM. Brumov, Kloboucká street (24), 2.ix.2004, 1 ♂ 3 ♀♀, IM; 28.vii.2005, 2 ♀♀, PK. Bylnice, railway station environs (27), 11.ix.1999, 5 ♂♂ 5 ♀♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 1 ♂ 2 ♀♀, IM. Nedašov, Pod Cigánem NM (30), 10.ix.1999, 1 ♀; 1.ix.2004, 2 ♂♂ 10 ♀♀; 5.x.2004, 1 ♂ 1 ♀; 28.vii.2005, 2 ♀♀; 6.ix.2005, 2 ♀♀; all IM. Sidonie, Vlárka brook valley above village (31), 8.ix.1981, 1 ♀, LP. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 4 ♂♂ 6 ♀♀, IM. Hluk, Kobylí hlava NM (35), 24.viii.2002, 1 ♀, IM. Hluk, Babí hora NM (36), 24.viii.2002, 1 ♂ 1 ♀, IM. Korytná, Březí (46), 5.vii.2001, 1 ♀, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 1 ♂ 1 ♀, IM. Horní Němčí, Drahy NR (48), 13.viii.2001, 1 ♀, PK; 21.vii.2002, 3 ♂♂ 3 ♀♀, IM; 10.ix.2002, 3 ♂♂, IM. Horní Němčí, Vinohrádky (49), 13.viii.2001, 5 ♂♂ 9 ♀♀ 2 larvae, PK; 21.ix.2001, 1 ♂ 4 ♀♀, PK; 20.vii.2002, 17 ♂♂ 15 ♀♀, IM; 10.ix.2002, 24 ♂♂ 23 ♀♀, IM. Horní Němčí, Lesná hill (51), 15.v.1998, 1 ♂, IM. Komňa, Nový Dvůr (53), 21.viii.1984, 1 ♂, PL. Komňa, Lom Rasová NM (54), 5.vii.2001, 1 ♂ 3 ♀♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♂ 1 ♀; 10.ix.1998, 1 ♀; all IM. Strání, Obecnice hill (60), 9.viii.2001, 1 ♂ 1 ♀, PK; 21.ix.2001, 8 ♂♂ 3 ♀♀, IM; 20.vii.2002, 7 ♂♂ 5 ♀♀, IM; 12.ix.2002, 2 ♂♂, IM. Lopeník, U Zvonice NM (63), 18.viii.2004, 3 ♀♀, PK; 25.ix.2004, 4 ♂♂ 1 ♀, IM; 21.v.2005, 2 ♂♂, IM; 24.vii.2005, 4 ♂♂ 1 ♀, IM. Lopeník, Lopenické sedlo (64), 25.ix.2004, 2 ♂♂ 4 ♀♀, IM; 21.v.2005, 1 ♂ 4 ♀♀, IM; 24.vii.2005, 8 ♂♂ 1 ♀, IM; 3.ix.2005, 2 ♂♂, PK. Lopeník, Mikulčín vrch hill (65), 25.ix.2004, 1 ♂ 1 ♀; 24.vii.2005, 1 ♂ 1 ♀, all IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♀; 8.viii.2007, 1 ♂ 1 ♀; both IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 6 ♂♂ 2 ♀♀; 8.viii.2007, 3 ♂♂ 6 ♀♀; all IM. Výškovec, Výškovecké Bošačky (69), 19.viii.2004, 2 ♂♂ 6 ♀♀, PK; 25.ix.2004, 1 ♂; 24.vii.2005, 2 ♂♂; 3.ix.2005, 2 ♂♂ 1 ♀; all PK. Výškovec, Pod Hribovňou NM (70), 19.viii.2004, 1 ♀, PK; 25.ix.2004, 3 ♀♀, PK; 21.v.2005, 1 ♂ 2 ♀♀; 8.ix.2005, 4 ♀♀, all IM. Výškovec, Ve Vlčí NR (71), 22.v.2005, 1 ♂ 1 ♀, IM. Radějov, Žerotín NM (73), 11.vii.1998, 2 ♂♂, IM; 9.viii.2002, 3 ♀♀, PK. Radějov, Holý vrch hill (74), 8.ix.1998, 1 ♀, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 2 ♀♀; 28.vii.2000, 1 ♂; all IM. Radějov, Lučina (76), 14.vii.1998, 1 ♀, IM. Lipov, Hájová hill (78), 19.iv.2012, 1 ♂,

Leafhoppers and planthoppers (Hemiptera: Auchenorrhyncha)

IM. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 1 ♂ 1 ♀; 27.vii.2000, 18 ♂♂ 11 ♀♀; all IM & PK. Hrubá Vrbka, football ground (82), 28.vii.2001, 1 ♀; 20.ix.2001, 1 ♀; both IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 2 ♂♂ 1 ♀, IM; 20.viii.2002, 1 ♀, PK. Radějov, Kútky NR (86), 8.ix.1998, 3 ♀♀, IM. Velká nad Veličkou, village (87), 9.ix.2000, 1 ♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 14.v.1998, 1 ♀; 13.vii.1998, 1 ♂; 9.–10.ix.2000, 1 ♂ 1 ♀; all IM. Suchov, Suchovské Mlýny (89), 16.viii.2004, 10 ♂♂ 7 ♀♀, PK; 26.v.2005, 1 ♂ 1 ♀, IM; 27.vii.2005, 2 ♂♂ 7 ♀♀, IM; 1.ix.2005, 2 ♀♀, IM. Suchov, Trnovský Mlýn (90), 16.viii.2004, 4 ♂♂ 3 ♀♀, PK; 1.x.2004, 1 ♂, IM; 27.vii.2005, 3 ♀♀, IM; 1.ix.2005, 3 ♀♀, IM. Javorník, Nad Vápenkou NM (94), 7.ix.2002, 2 ♀♀, IM. Javorník, loampit W of village (95), 7.ix.1998, 1 ♂, IM. Javorník, Jazevčí NNR (96), 6.v.2000, 1 ♀; 19.vi.2000, 1 ♂ 2 ♀♀; 10.ix.2000, 1 ♂♂ 2 ♀♀; all IM. Javorník, Petruchovy Mlýny (97), 2.ix.2004, 16 ♂♂ 18 ♀♀; 1.x.2004, 1 ♀; 27.vii.2005, 2 ♀♀; 1.ix.2005, 7 ♀♀; all IM. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 1 ♂ 1 ♀; 9.ix.1998, 1 ♂ 1 ♀; all IM. Strání, Záhumenice NM (104), 9.viii.2001, 5 ♀♀, PK; 21.ix.2001, 2 ♂♂ 4 ♀♀, IM. Strání, Javorina NNR (106), 12.vii.1998, 3 ♂♂ 1 ♀; 4.vii.2001, 2 ♂♂ 1 ♀; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area from the lowest to the highest elevations; common in various open grassland habitats including ruderal sites. **General distribution:** Palaearctic and Oriental. **Host plants:** Various Poaceae and perhaps also Cyperaceae and Juncaceae. **Red List status:** –.

Megadelphax sordidula (Stål, 1853)

Published records. LANG (1945a): Korytná, Lipiny forest (38). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79). KMENT & MALENOVSKÝ (2008): Kněždub, Čertoryje NNR, Járkovec brook valley (77); Strání, Záhumenice NM (104).

Additional material examined. Petrůvka, U Petrůvky NM (3), 6.viii.1999, 1 ♀, PK. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 1 ♀, IM. Valašské Klobouky, Javorůvky NR (7), 22.v.1999, 7 ♂♂ 1 ♀, IM. Valašské Klobouky, Dobšená NM (8), 22.v.1999, 2 ♂♂; 10.ix.1999, 1 ♂ 3 ♀♀; all IM. Valašské Klobouky, Brumovka brook valley (9), 19.v.1999, 10 ♂♂ 1 ♀, IM; 30.vi.1999, 1 ♀, MH; 9.ix.1999, 1 ♀, IM. Poteč, Ploštiny NR (12), 13.ix.1999, 2 ♂♂ 2 ♀♀, IM; 1.vi.2002, 2 ♂♂ 4 ♀♀, IM; 24.viii.2002, 1 ♂ 1 ♀, PK. Valašské Klobouky, Bílé potoky NR (13), 16.vi.2006, 1 ♂, IM; 14.viii.2006, 1 ♂ 1 ♀, PK. Brumov, Uhličky (14), 28.v.2005, 1 ♂ 2 ♀♀, IM; 28.vii.2005, 2 ♂♂ 1 larva; 4.ix.2005, 1 ♂ 1 ♀; all PK. Nedašov, Jalovcová stráž NR (17), 20.v.1999, 1 ♂ 1 ♀; 3.vii.1999, 1 ♂; 1.ix.2004, 1 ♂; 28.v.2005, 1 ♂; 28.vii.2005, 1 ♂ 1 ♀ 2 larvae; 6.ix.2005, 3 ♂♂ 2 ♀♀; all IM; 16.viii.2006, 1 ♀, PK. Nedašov, Kaňoury NM (18), 12.vii.2006, 2 ♀♀, IM; 16.viii.2006, 4 ♂♂ 2 ♀♀, PK. Nedašov, Kaňur hill and Hrušová dolina valley (19), 20.v.1999, 3 ♂♂ 1 ♀, IM. Brumov, Kloboucká street (24), 2.ix.2004, 2 ♂♂, IM; 28.vii.2005, 1 ♂ 1 larva, PK. Bylnice, Na Stráži (25), 16.vi.2006, 8 ♂♂, IM; 11.vii.2006, 1 ♂, IM; 18.viii.2006, 1 ♀, PK. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 21.v.1999, 1 ♂; 12.ix.1999, 1 ♂ 2 ♀♀; all IM. Blatnička, Milejovské louky meadows (39), 24.v.2009, many ♂♂ ♀♀; 16.viii.2009, 6 ♂♂ 6 ♀♀; all PB. Horní Němčí, Drahy NR (48), 30.vi.2001, 4 ♂♂ 2 ♀♀, IM & PK; 13.viii.2001, 12 ♂♂ 20 ♀♀ 1 larva, PK; 21.ix.2001, 2 ♂♂ 2 ♀♀, PK; 23.v.2002, 5 ♂♂ 15 ♀♀, IM & PK; 21.vii.2002, 23 ♂♂ 20 ♀♀ 121 larvae, IM. Horní Němčí, Vinohrádky (49), 30.vi.2001, 1 ♂, IM; 13.viii.2001, 3 ♀♀, PK; 23.v.2002, 1 ♂ 1 ♀, IM & PK; 20.vii.2002, 21 ♀♀ 11 larvae, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♂, IM & PK. Strání, Obecnice hill (60), 24.v.2001, 1 ♂ 2 ♀♀, IM; 23.v.2002, 1 ♂ 3 ♀♀, IM; 20.vii.2002, 3 larvae, IM. Lopeník, U Zvonice NM (63), 27.vi.2004, 2 ♀♀, IM; 25.ix.2004, 6 ♂♂ 1 ♀, IM; 16.iv.–20.v.2005, 1 larva, PT, KR; 24.vii.2005, 1 larva, IM; 3.ix.2005, 4 ♂♂, PK. Lopeník, Lopenické sedlo (64), 27.vi.2004, 2 ♂♂ 2 ♀♀, IM; 25.ix.2004, 1 ♀, IM; 21.v.2005, 1 ♂ 3 larvae, IM; 3.ix.2005, 1 ♂, PK. Starý Hrozenkov, Skalka quarry (67), 8.viii.2007, 3 ♂♂ 2 ♀♀, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 2 ♂♂ 1 ♀, IM. Vyškovec, Vyškovecké Bošačky (69), 19.viii.2004, 3 ♀♀, PK; 25.ix.2004, 1 ♂, PK; 21.v.2005, 1 ♂ 9 ♀♀, IM; 24.vii.2005, 2 larvae, PK; 3.ix.2005, 3 ♂♂ 4 ♀♀, PK. Vyškovec, Pod Hřibovnou NM (70), 28.vi.2004, 1 ♂ 3 ♀♀, IM; 19.viii.2004, 5 ♂♂ 10 ♀♀ 6 larvae, PK; 25.ix.2004, 1 ♀, PK; 21.v.2005, 1 ♂ 1 ♀, IM; 8.ix.2005, 2 ♀♀, IM. Vyškovec, Ve Vlčí NR (71), 22.v.2005, 3 ♀♀, IM. Radějov, Lučina (76), 13.v.1998, several ♂♂ ♀♀, IM. Radějov, Žerotín NM (73), 9.viii.2002, 1 ♀, PK; 19.iv.2012, 2 larvae, IM. Kněždub, Čertoryje NNR (77, 79), 19.vi.1980, 3 ♂♂ 3 ♀♀, PL; 22.v.2000, 3 ♀♀, PK. Lipov, Hájová hill (78), 19.iv.2012, 2 larvae, IM. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 35 ♂♂ 50

♀♀, IM & PK. Hrubá Vrbka, football ground (82), 28.vii.2001, 3 ♂♂ 1 ♀, IM & PK. Radějov, Měsíční údolí valley (84), 20.viii.2002, 2 ♂♂, PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 14.v.1998, many ♂♂ ♀♀, IM; 18.viii.2000, 1 ♂ 1 ♀, PK. Suchov, Suchovské Mlýny (89), 16.viii.2004, 13 ♂♂ 13 ♀♀ 2 larvae, PK; 26.v.2005, 13 ♂♂ 18 ♀♀, IM; 27.vii.2005, 18 ♂♂ 12 ♀♀ 25 larvae, IM; 1.ix.2005, 3 ♂♂ 4 ♀♀, IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 1 ♂ 1 ♀, IM; 16.viii.2004, 5 ♂♂ 5 ♀♀, PK; 26.v.2005, 39 ♂♂ 71 ♀♀ 3 larvae, IM; 27.vii.2005, 19 ♂♂ 13 ♀♀ 51 larva, IM; 1.ix.2005, 29 ♂♂ 30 ♀♀ 5 larvae, IM. Velká nad Veličkou, towards Javorník (91), 10.vi.1982, 3 ♂♂ 2 ♀♀ 2 larvae, PL. Javorník, Nad Vápenkou NM (94), 6.v.2000, 1 ♂, IM. Javorník, village (92), 8.viii.2001, 1 ♂ 1 ♀, PK. Javorník, loampit W of village (95), 24.v.2002, 4 ♂♂ 5 ♀♀, IM. Javorník, Jazevčí NNR (96), 6.v.2000, 11 ♂♂ 4 ♀♀; 19.vi.2000, 3 ♂♂ 9 ♀♀; 10.ix.2000, 1 ♂ 1 ♀; all IM. Javorník, Petruchovy Mlýny (97), 2.ix.2004, 2 ♂♂; 26.v.2005, 13 ♂♂ 10 ♀♀; 27.vii.2005, 6 ♂♂ 2 ♀♀ 4 larvae; 1.ix.2005, 1 ♂ 2 ♀♀; all IM. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 1 ♂, IM. Javorník, Machová NR (102), 14.v.1998, many ♂♂ ♀♀, IM; 14.vi.2010, 1 ♀, MT, JM & PC. Strání, Záhumenice NM (104), 24.v.2001, 192 ♂♂ 191 ♀♀ 36 larvae, IM; 8.vi.2001, 2 ♀♀, PL; 2.vii.2001, 12 ♂♂ 16 ♀♀, PK; 9.viii.2001, 230 ♂♂ 218 ♀♀ 131 larvae, PK; 21.ix.2001, 11 ♂♂ 7 ♀♀ 10 larvae, IM. Strání, Nová hora NR (105), 16.v.1998, many ♂♂ ♀♀, IM. Strání, Javorina NNR (106), 4.vii.2001, 1 ♂ 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area in meadows, pastures, orchards and along waysides. **General distribution:** Eurosiberian. **Host plant:** *Arrhenatherum elatius*. **Red List status:** –.

Megamelodes quadrimaculatus (Signoret, 1865) (EN)

Material examined. Valašské Klobouky, Javorůvky NR (7), 22.v.1999, 2 ♂♂ 1 ♀, IM; 2.vii.1999, 1 ♂, IM; 24.viii.2002, 1 ♀, PK. Valašské Klobouky, Dobšená NM (8), 10.ix.1999, 1 ♂, IM. Valašské Klobouky, Brumovka brook valley (9), 19.v.1999, 1 ♀, IM. Valašské Klobouky, Bílé potoky NR (13), 16.vi.2006, 4 ♀♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 1.vii.1999, 1 ♂, PK. Horní Němčí, Drahý NR (48), 10.ix.2002, 1 ♂, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 8.viii.2007, 4 ♂♂ 5 ♀♀; 22.ix.2007, 1 ♂; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Quite rare and local in spring fens; most records are from the north-eastern part of the area. **General distribution:** Western Palaearctic. **Host plants:** Poaceae (perhaps *Festuca* spp. or *Poa* spp.), often found among *Juncus* and *Carex* spp. **Red List status:** Endangered.

Comments. The few previously published records of *M. quadrimaculatus* from the Czech Republic are from the environs of Brno and the Nesyt pond in southern Moravia and the Kokořínsko PLA in northern Bohemia (LAUTERER 1980, MALENOVSKÝ 2006). The species may, however, be under-recorded because of its cryptic way of life close to the ground.

Megamelus notula (Germar, 1830)

Material examined. Nedašov, Na Salaši (29), 10.ix.1999, 4 ♂♂ 2 ♀♀ 1 larva, IM. Strání, Důbrava hill (62), 7.vii.1980, 1 ♂, PL.

Distribution and frequency in the Bílé Karpaty PLA: Rare and local: known from only two isolated records: in a tall-sedge fen in the north-eastern part of the area and an accidental finding of a macropterous specimen in a forest glade near Strání. **General distribution:** Eurosiberian. **Host plants:** *Carex* spp. (e.g. *C. acutiformis*, *C. acuta*, *C. rostrata*, *C. nigra* and *C. disticha*). **Red List status:** –.

***Mirabella albifrons* (Fieber, 1879)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Radějovka brook valley (79).

Additional material examined. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 1 ♂, IM. Nedašov, Jalovcová stráň NR (17), 1.ix.2004, 1 ♀; 28.v.2005, 3 ♀♀; 28.vii.2005, 2 ♂♂ 2 ♀♀ 1 larva; 6.ix.2005, 3 ♀♀; all IM. Blatnička, Milejovské louky meadows (39), 11.vii.2009, 1 ♀, PB. Lopeník, Lopenické sedlo (64), 21.v.2005, 2 ♀♀, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♀; 8.viii.2007, 1 ♀; both IM. Lipov, Hájová hill (78), 19.iv.2012, 1 ♂ 1 ♀, IM. Radějov, Kútky NR (86), 11.vii.1998, 3 ♂♂ 1 ♀, IM. Suchov, Suchovské Mlýny (89), 27.vii.2005, 1 ♂, IM. Suchov, Trnovský Mlýn (90), 16.viii.2004, 1 ♂, PK; 27.vii.2005, 6 ♂♂ 14 ♀♀, IM. Javorník, loampit W of village (95), 10.vii.2008, 1 ♀, ZM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread in neglected wet to dry meadows throughout the area but quite uncommon. **General distribution:** Central, eastern and south-eastern Europe, Kazakhstan. **Host plants:** *Calamagrostis epigejos* and *C. canescens*. **Red List status:** –.

***Muellerianella brevipennis* (Boheman, 1847)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 1 ♂ 7 ♀♀, IM. Valašské Klobouky, Dobšená NM (8), 10.ix.1999, 2 ♀♀, IM. Valašské Klobouky, Brumovka brook valley (9), 9.ix.1999, 2 ♀♀, IM. Valašské Klobouky, Bílé potoky NR (13), 9.ix.1999, 1 ♀; 11.vii.2006, 1 ♀; both IM. Nedašov, Jalovcová stráň NR (17), 3.vii.1999, 1 ♂ 1 ♀; 10.ix.1999, 4 ♂♂ 9 ♀♀; all IM. Bynice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 5 ♀♀, IM. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 1 ♀; 28.vii.2005, 1 ♀; 6.ix.2005, 5 ♀♀; all IM. Korytná, Březí (46), 5.vii.2001, 2 ♂♂ 5 ♀♀, IM. Komňa, Lom Rasová NM (54), 5.vii.2001, 1 ♂ 1 ♀, IM. Suchov, Trnovský Mlýn (90), 1.ix.2005, 1 ♂, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 4 ♀♀; 10.ix.2000, 1 ♂ 7 ♀♀; all IM. Strání, Javorina NNR (106), 4.vii.2001, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread (even if quite local) in wet grassland and spring fens throughout the area. **General distribution:** European. **Host plant:** *Deschampsia cespitosa*. **Red List status:** –.

***Muellerianella extrusa* (Scott, 1871)**

(VU)

Published records. LANG (1945a): Suchá Loz, Studený vrch hill (57) [cited as "*Liburnia Faiermairi* Perr.", misidentified]. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Korytná, Březí (46), 5.vii.2001, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread but insufficiently documented because of its predominantly cryptic way of life close to the ground and critical taxonomy (most specimens recorded were females which cannot be identified with certainty – see the Material examined under *Muellerianella* sp. below). **General distribution:** Palaearctic. **Host plant:** *Molinia caerulea* agg. **Red List status:** Vulnerable.

Comments. Based on recent field surveys, *M. extrusa* is probably widespread and locally common in the Czech Republic in regions where its host plant occurs commonly, e.g. in the Třeboňská pánev Basin and the Šumava Mts. in southern Bohemia and the Elbe River lowland in central Bohemia. However, it has been only poorly documented in literature so far (LAUTERER & NOVOTNÝ 1991, DLABOLA 1997).

***Muellerianella fairmairei* (Perris, 1857)**

Material examined. Brumov, Uhličky (14), 30.vi.2004, 4 ♀♀; 5.x.2004, 1 ♂; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Reliably identified specimens were collected in only one locality (a mesic meadow) in the north-eastern part of the area.

General distribution: Southern and western Europe. **Host plants:** *Holcus lanatus* and *H. mollis*. **Red List status:** –.

Comments. Most records previously published from the Czech Republic under this name were misidentified and refer to *M. extrusa* (DLABOLA 1997). Recently, *M. fairmairei* has been confirmed in a few localities in central and southern Bohemia (MALENOVSKÝ 2006 and additional unpublished material from the Moravian Museum, Brno). Here we provide the first reliable record also for Moravia. *M. fairmairei* may be widespread in the country but its identification is generally difficult as males are rare and females cannot be identified with certainty unless provided with definite host plant data (BOOIJ 1981, 1982a,b; BOOIJ & GULDEMOND 1984).

***Muellerianella* sp.**

Material examined. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 2 ♀♀, IM. Valašské Klobouky, Javorůvky NR (7), 2.vii.1999, 1 ♀, IM. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 1 ♀, MH; 9.ix.1999, 2 ♀♀, IM. Poteč, Ploščiny NR (12), 4.vii.1999, 1 ♀, IM. Nedašov, Jalovcová stráž NR (17), 6.ix.2005, 1 ♀, IM. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 1 ♀; 5.x.2004, 13 ♀♀; 6.ix.2005, 3 ♀♀; all IM. Horní Němčí, Hornoněmčanský háj forest (45), 10.ix.2002, 2 ♀♀, IM. Korytná, Lubná pond environs (56), 5.vii.2001, 1 ♀, IM. Lopeník, U Zvonice NM (63), 25.ix.2004, 2 ♀♀, IM. Vyškovec, Vyškovecké Bošačky (69), 25.ix.2004, 2 ♀♀; 3.ix.2005, 2 ♀♀; all PK. Strání, Záhumenice NM (104), 2.vii.2001, 7 ♀♀; 9.viii.2001, 2 ♀♀; all PK. Strání, Javorina NNR (106), 4.vii.2001, 1 ♀; 29.x.2011, 1 ♀; both IM.

Comments. Most of the above listed specimens probably belong to *Muellerianella extrusa* but some of them may also represent *M. fairmairei*. The females of these two species cannot be identified with certainty unless associated with males or definite host plant data.

***Paradelphacodes paludosus* (Flor, 1861)**

(EN)

Material examined. Valašské Klobouky, Dobšená NM (8), 10.ix.1999, 1 ♂ 1 ♀, IM. Valašské Klobouky, Na Nivách, 19.v.1999, 2 ♂♂ 2 ♀♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Rare and local, present only in well-preserved calcareous spring fens. **General distribution:** Eurosiberian. **Host plants:** *Carex* spp. (e.g. *C. rostrata* and *C. panicea*). **Red List status:** Endangered.

Comments. *Paradelphacodes paludosus* is locally abundant in intermediate bogs and peaty meadows in south-western Moravia but rather sporadic elsewhere in the Czech Republic (DLABOLA 1954, LAUTERER 1980).

***Paraliburnia adela* (Flor, 1861)**

(VU)

Material examined. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 8 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Collected only on the banks of the Vlára River on the Czech-Slovak border. **General distribution:** Eurosiberian. **Host plant:** *Phalaris arundinacea*. **Red List status:** Vulnerable.

Comments. In the Czech Republic, *P. adela* has been recorded e.g. in floodplains and wet meadows of the Dyjsko-svratecký and Dolnomoravský úval Lowlands in southern Moravia, the Jihlavské vrchy Hills and Mohelno environs in south-western Moravia, as well as Frýdlantsko region in northern Bohemia and the Třeboňská pánev Basin in southern Bohemia (LAUTERER 1980 and unpublished data from the Moravian Museum, Brno). It usually dwells in the stands of its host plant close to the ground and is rarely caught in sweep-nets. It may be a widespread species which is, however, overlooked at many sites.

***Ribautodelphax albostrata* (Fieber, 1866)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79). KMENT & MALENOVSKÝ (2008): Lopeník, Lopenické sedlo (64).

Additional material examined. Petrůvka, U Petrůvky NM (3), 6.viii.1999, 2 ♂♂, PK. Valašské Klobouky, Brumovská street (5), 19.v.1999, 2 ♂♂, IM. Valašské Klobouky, Brumovka brook valley (9), 9.ix.1999, 1 ♂, IM. Poteč, Ploščiny NR (12), 1.vi.2002, 1 ♂, IM. Brumov, Uhličky (14), 1.ix.2004, 1 ♂; 5.x.2004, 1 ♂ 4 larvae; all IM; 5.iv.–4.v.2005, 1 ♂; 4.vii.–6.viii.2005, 1 ♂; both PT, KR; 28.vii.2005, 11 ♂♂ 2 ♀♀, PK. Nedašov, Kaňoury NM (18), 12.vii.2006, 1 ♂, IM. Nedašov, Kaňúr hill and Hrušová dolina valley (19), 20.v.1999, 15 ♂♂ 8 ♀♀, IM. Brumov, Kloboucká street (24), 2.ix.2004, 7 ♂♂ 2 ♀♀ 1 larva, IM; 28.vii.2005, 6 ♂♂, PK; 4.vii.–6.viii.2005, 2 ♂♂; 6.viii.–7.ix.2005, 1 ♂; all PT, KR; 4.ix.2005, 3 ♂♂, PK. Hluk, Babí hora NM (36), 24.viii.2002, 1 ♂ 1 ♀, IM. Blatnička, Milejovské louky meadows (39), 24.v.2009, 2 ♂♂; 11.vii.2009, 1 ♂; both PB. Suchov, Búrová NNM (43), 13.vii.1998, 1 ♂, IM. Horní Němčí, Drahy NR (48), 13.viii.2001, 1 ♂ 1 ♀, PK; 21.vii.2002, 9 ♂♂, IM. Horní Němčí, Vinohrádky (49), 13.viii.2001, 1 ♂, PK; 21.ix.2001, 1 ♂, PK; 20.vii.2002, 4 ♂♂, IM; 10.ix.2002, 4 ♂♂ 2 ♀♀, IM; 22.viii.–27.ix.2003, 1 ♂, PT, KR. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♂, IM & PK. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♀, IM. Strání, Obecnice hill (60), 9.viii.2001, 1 ♂, PK; 12.ix.2002, 1 ♂, IM. Lopeník, Lopenické sedlo (64), 27.vi.2004, 1 ♂, IM; 25.ix.2004, 4 ♂♂, IM; 21.v.2005, 11 ♂♂, IM; 24.vii.2005, 13 ♂♂, IM; 3.ix.2005, 3 ♂♂, PK. Lopeník, Mikulčín vrch hill (65), 24.vii.2005, 1 ♂, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 2 ♂♂ 2 ♀♀, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 5 ♂♂ 7 ♀♀; 8.viii.2007, 4 ♂♂ 1 ♀; all IM. Vyškovec, Vyškovecké Bošačky (69), 19.viii.2004, 1 ♂, PK; 25.ix.2004, 2 ♀♀, PK; 21.v.2005, 1 ♂, IM; 24.vii.2005, 1 ♂; PK. Radějov, Žerotín NM (73), 11.vii.1998, 2 ♂♂ 8 ♀♀; 19.iv.2012, 4 ♂♂ 2 ♀♀; all IM. Lipov, Hájová hill (78), 19.iv.2012, 10 ♂♂ 3 ♀♀, IM. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 4 ♂♂ 7 ♀♀, IM & PK. Radějov, Kútky NR (86), 11.vii.1998, 7 ♂♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 14.v.1998, several ♂♂ ♀♀; 13.vii.1998, 2 ♂♂; 18.iv.2000, 8 ♂♂; all IM. Suchov, Suchovské Mlýny (89), 27.vii.2005, 9 ♂♂, IM. Suchov, Trnovský Mlýn (90), 16.viii.2004, 6 ♂♂, PK; 26.v.2005, 25 ♂♂, IM; 27.vii.2005, 102 ♂♂, IM; 1.ix.2005, 6 ♂♂, IM. Javorník, Jazevčí NNR (96), 6.v.2000, 8 ♂♂ 4 ♀♀, IM. Javorník, Petruchovy Mlýny (97), 2.ix.2004, 5 ♂♂; 1.x.2004, 3 ♂♂; 26.v.2005, 7 ♂♂; 27.vii.2005, 72 ♂♂; 1.ix.2005, 15 ♂♂; all IM. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 6 ♂♂ 1 ♀, IM. Javorník, Machová NR (102), 14.v.1998, 3 ♂♂ 1 ♀, IM. Javorník, Výzkum hill (103), 10.vi.1982, 1 ♂, PL. Strání, Záhumenice NM (104), 24.v.2001, 9 ♂♂ 4 ♀♀, IM; 9.viii.2001, 5 ♂♂, PK; 21.ix.2001, 2 ♂♂, IM. Strání, Javorina NNR (106), 4.vii.2001, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in meadows and pastures throughout the area, including the highest elevations. **General**

distribution: Palaearctic. **Host plants:** *Poa angustifolia* and *P. pratensis*. **Red List status:** –.

***Ribautodelphax angulosa* (Ribaut, 1953) (VU)**

Published records. LANG (1945a): Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99); Suchá Loz, Studený vrch hill (57) [all cited as “*Liburnia pallens* Stal”, misidentified]. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77). MALENOVSKÝ & LAUTERER (2010): Valašské Klobouky, Bílé potoky NR (13); Nedašov, Jalovcová stráň NR (17); Lopeník, U Zvonice NM (63); Lopeník, Lopenické sedlo (64); Kněždub, Čertoryje NNR, Járkovec brook valley (77); Malá Vrbka, Výzkum hill (80); Javorník, Petruchovy Mlýny (97); Strání, Záhumenice NM (104).

Additional material examined. Valašské Klobouky, Brumovská street (5), 19.v.1999, 1 ♂, IM. Valašské Klobouky, Javorůvky NR (7), 22.v.1999, 1 ♂, IM. Valašské Klobouky, Brumovka brook valley (9), 19.v.1999, 1 ♂, IM. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 6 ♂♂, IM. Nedašov, Jalovcová stráň NR (17), 25.vi.2002, 1 ♂ 1 ♀, PK. Nedašov, Pod Cigánem NM (30), 28.vii.2005, 6 ♂♂ 5 ♀♀, IM. Vyškovec, Vyškovecké Bošačky (69), 21.v.2005, 2 ♂♂ 1 ♀, IM; 24.vii.2005, 10 ♂♂ 3 ♀♀, PK; 3.ix.2005, 1 ♂ 1 ♀, PK. Kněždub, Čertoryje NNR, Járkovec brook valley (77), 2.vi.2008, 1 ♂, IM; 12.viii.2008, 1 ♂ 1 ♀, KD & KF. Radějov, Kútky NR (86), 11.vii.1998, 3 ♂♂, IM. Suchov, Suchovské Mlýny (89), 27.vii.2005, 2 ♂♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common in species-rich meadows and pastures throughout the area. **General distribution:** European. **Host plant:** *Anthoxanthum odoratum*. **Red List status:** Vulnerable.

Comments. The available data on the distribution of *R. angulosa* in the Czech Republic have been summarized by MALENOVSKÝ & LAUTERER (2010). The species is quite widespread and locally common at least in southern Moravia and north-eastern Bohemia, being confined to non-intensively managed, dry to mesic grassland on sunny sites.

***Ribautodelphax collina* (Boheman, 1847)**

Published records. LANG (1945a): Suchá Loz, Studený vrch hill (57).

Additional material examined. Lopeník, Lopenické sedlo (64), 24.vii.2005, 1 ♂, IM; 3.ix.2005, 1 ♂, PK.

Distribution and frequency in the Bílé Karpaty PLA: Known only from two sites in the central part of the area; rare and apparently restricted here to pastures at relatively high elevations. **General distribution:** European. **Host plant:** *Agrostis capillaris*. **Red List status:** –.

***Ribautodelphax imitans* (Ribaut, 1953)**

Published records. MALENOVSKÝ & LAUTERER (2010): Horní Němčí, Vinohrádky (49); Lopeník, Lopenické sedlo (64); Kněždub, Čertoryje NNR, Járkovec brook valley (77); Malá Vrbka, Výzkum hill (80); Velká nad Veličkou, Zahrady pod Hájem NNR (88); Suchov, Trnovský Mlýn (90); Javorník, Petruchovy Mlýny (97); Strání, Záhumenice NM (104).

Additional material examined. Vyškovec, Vyškovecké Bošačky (69), 21.v.2005, 1 ♂, IM. Kněždub, Čertoryje NNR, Járkovec brook valley (77), 22.vi.2008, 1 ♂, KD & KF. Radějov, Kútky NR (86), 11.vii.1998, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Recorded from the south-western and central parts of the area, probably missing in the north-east; in pastures, quite eutrophicated dry grassland and abandoned fields, uncommon. **General distribution:**

Southern half of Europe and Great Britain. **Host plant:** *Festuca arundinacea*. **Red List status:** –.

Comments. The distribution of *R. imitans* in the Czech Republic has been reviewed by MALENOVSKÝ & LAUTERER (2010); the species has been documented from south-eastern Moravia and central Bohemia.

***Ribautodelphax pungens* (Ribaut, 1953)**

Published records. MALENOVSKÝ (2001), KMENT & MALENOVSKÝ (2008): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Brumovská street (5), 19.v.1999, 1 ♂, IM. Valašské Klobouky, Dobšená NM (8), 2.vii.1999, 3 ♂♂ 2 ♀♀, IM. Valašské Klobouky, Brumovka brook valley (9), 19.v.1999, 1 ♂, IM. Poteč, Ploščíny NR (12), 4.vii.1999, 2 ♂♂, IM; 1.vi.2002, 2 ♂♂ 10 ♀♀, IM; 24.viii.2002, 13 ♂♂ 11 ♀♀, PK. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 10 ♂♂, IM. Nedašov, Jalovcová stráž NR (17), 20.v.1999, 1 ♂; 3.vii.1999, 1 ♂; 30.vi.2004, 1 ♀; 1.ix.2004, 1 ♂; 28.v.2005, 2 ♂♂ 6 ♀♀; all IM. Nedašov, Kaňoury NM (18), 16.viii.2006, 3 ♂♂, PK. Brumov, Kloboucká street (24), 5.x.2004, 24 larvae; 28.v.2005, 3 ♀♀ 1 larva; all IM; 28.vii.2005, 12 ♂♂ 19 ♀♀ 1 larva; 4.ix.2005, 1 ♂ 2 ♀♀ 2 larvae; all PK; 5.iv.–4.v.2005, 1 ♂ 3 larvae; 4.v.–3.vi.2005, 1 ♂; 3.vi.–4.vii.2005, 1 ♂ 3 larvae; 4.vii.–6.viii.2005, 3 ♂♂; 6.viii.–7.ix.2005, 3 ♂♂; all PT, KR. Bylnice, Na Stráži (25), 16.vi.2006, 2 ♀♀; 11.vii.2006, 48 ♂♂ 27 ♀♀; all IM. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 1 ♂ 1 ♀, IM. Blatnička, Milejovské louky meadows (39), 24.v.2009, 2 ♂♂; 11.vii.2009, 1 ♂; all PB. Korytná, Březí (46), 5.vii.2001, 1 ♂, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 3 ♂♂ 5 ♀♀, IM & PK; 21.vii.2002, 7 ♂♂, IM. Strání, Obecnice hill (60), 9.viii.2001, 2 ♂♂, PK; 20.vii.2002, 2 ♂♂ 13 ♀♀, IM. Lopeník, U Zvonice NM (63), 24.vii.2005, 1 ♂ 2 ♀♀, IM. Lopeník, Lopenické sedlo (64), 21.v.2005, 2 ♂♂; 24.vii.2005, 1 ♂; all IM. Radějov, Žerotín NM (73), 19.iv.2012, 1 ♂, IM. Malá Vrbka, Výzkum hill (80), 28.vii.2001, 1 ♂, IM & PK. Radějov, Kútky NR (86), 11.vii.1998, 1 ♂; 8.ix.1998, 1 ♂; both IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 3 ♂♂; 18.iv.2000, 8 ♂♂; all IM. Suchov, Suchovské Mlýny (89), 16.viii.2004, 3 ♂♂ 1 ♀, PK; 1.x.2004, 1 ♂, IM; 26.v.2005, 1 ♂ 6 ♀♀, IM; 27.vii.2005, 24 ♂♂, IM. Suchov, Trnovský Mlýn (90), 26.v.2005, 7 ♂♂; 27.vii.2005, 23 ♂♂; 1.ix.2005, 3 ♂♂; all IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 2 ♂♂ 2 ♀♀, IM. Javorník, Petruchovy Mlýny (97), 27.vii.2005, 6 ♂♂, IM. Strání, Záhumenice NM (104), 9.viii.2001, 1 ♂, PK.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in dry grassland, species-rich meadows and pastures and along forest margins throughout the area. **General distribution:** Europe and Turkey. **Host plant:** *Brachypodium pinnatum*. **Red List status:** –.

***Stenocranus fuscovittatus* (Stål, 1858)**

(VU)

Published records. MALENOVSKÝ & LAUTERER (2010): Lopeník, Lopenické sedlo (64); Javorník, Machová NR (102).

Additional material examined. Javorník, loampit W of village (95), 24.v.2002, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Quite rare: recorded altogether from three small spring fen sites in the south-western and central parts of the area. **General distribution:** Eurosiberian. **Host plants:** *Carex* spp. (e.g. *C. acutiformis* and *C. paniculata*). **Red List status:** Vulnerable.

Comments. In the Czech Republic, *S. fuscovittatus* is quite widespread and locally common in wetland habitats of southern and western Moravia as well as in central, northern and southern Bohemia, being distributed from lowlands to highlands (MALENOVSKÝ & LAUTERER 2010).

***Stenocranus major* (Kirschbaum, 1868)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Radějovka brook valley (79).

Additional material examined. Valašské Klobouky, Brumovská street (5), 19.v.1999, 1 ♂, IM. Valašské Klobouky, Královec hill (11), 13.ix.1999, many ♂♂ ♀♀, IM. Poteč, Ploščiny NR (12), 1.vi.2002, 1 ♂ 1 ♀, IM. Brumov, Kloboucká street (24), 5.x.2004, 1 ♂ 1 ♀, IM. Bylnice, railway station environs (27), 21.v.1999, 1 ♂ 3 ♀♀; 11.ix.1999, 1 ♂; all IM. Svatý Štěpán, Nadřičí (32), 21.v.1999, 1 ♂ 1 ♀, IM. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, many ♂♂ ♀♀, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, many ♂♂ ♀♀, IM. Horní Němčí, Horní kopec hill (50), 15.v.1998, 2 ♀♀, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 2 ♀♀, IM. Radějov, Lučina (76), 13.v.1998, 1 ♀, IM. Malá Vrbka, Výzkum hill (80), 20.ix.2001, 1 ♂, IM & PK.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and locally common along brooks, rivers and waysides throughout the area. **General distribution:** European. **Host plant:** *Phalaris arundinacea*. **Red List status:** –.

***Stenocranus minutus* (Fabricius, 1787)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Brumovská street (5), 19.v.1999, 3 ♀♀, IM. Valašské Klobouky, Javorůvky NR (7), 22.v.1999, 1 ♂ 1 ♀; 11.ix.1999, 4 ♂♂ 4 ♀♀; all IM. Valašské Klobouky, Dobšená NM (8), 22.v.1999, 1 ♂ 1 ♀; 10.ix.1999, 4 ♂♂ 5 ♀♀; all IM. Valašské Klobouky, Brumovka brook valley (9), 19.v.1999, 3 ♂♂ 2 ♀♀; 9.ix.1999, 3 ♂♂ 2 ♀♀; all IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 1 ♂, IM. Poteč, Ploščiny NR (12), 13.ix.1999, 4 ♂♂ 6 ♀♀, IM. Valašské Klobouky, Bílé potoky NR (13), 19.v.1999, 2 ♂♂, IM; 9.ix.1999, 9 ♂♂ 8 ♀♀, IM; 23.viii.2002, 1 ♂, PK. Nedašov, Jalovcová stráž NR (17), 20.v.1999, 2 ♀♀; 10.ix.1999, 6 ♂♂; 28.v.2005, 2 ♀♀; 28.vii.2005, 1 larva; 6.ix.2005, 1 ♂ 1 ♀; all IM. Nedašov, Kaňúr hill and Hrušová dolina valley (19), 20.v.1999, 2 ♂♂ 1 ♀, IM. Brumov, Kloboucká street (24), 2.ix.2004, 3 ♂♂ 2 ♀♀, IM; 5.x.2004, 1 ♂ 3 ♀♀, IM; 28.vii.2005, 2 larvae, PK; 4.ix.2005, 1 ♂ 1 ♀, PK. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 2 ♂♂ 1 ♀, IM. Hluk, Babí hora NM (36), 24.viii.2002, 4 ♂♂ 2 ♀♀ 1 larva, IM. Blatnička, Milejovské louky meadows (39), 24.v.2009, 1 ♀, PB. Louka, Hloží NR (42), 7.ix.1998, 1 ♂, IM; 24.iv.1999, 1 ♀, MH. Suchov, Kazivec brook valley (47), 9.ix.1998, 1 ♀, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, several ♂♂ ♀♀, IM; 13.viii.2001, 1 larva, PK; 21.ix.2001, 1 ♂ 1 ♀, PK; 23.v.2002, 1 ♀, IM; 21.vii.2002, 1 larva, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 3 ♀♀, IM. Lopeník, U Zvonice NM (63), 25.ix.2004, 5 ♀♀, IM; 21.v.2005, 1 ♂, IM; 3.ix.2005, 1 ♀, PK. Starý Hrozenkov, Hrozenkovské terasy (68), 22.ix.2007, 3 ♂♂ 1 ♀, IM. Výskovec, Výskovecké Bošačky (69), 19.viii.2004, 1 larva, PK; 25.ix.2004, 13 ♂♂ 6 ♀♀, PK; 21.v.2005, 2 ♀♀, IM; 3.ix.2005, 1 ♂ 1 ♀ 1 larva, PK. Výskovec, Pod Hribovňou NM (70), 25.ix.2004, 1 ♂ 4 ♀♀, PK; 21.v.2005, 1 ♀, IM; 8.ix.2005, 1 ♂ 1 ♀ 3 larvae, IM. Výskovec, Ve Vlčí NR (71), 22.v.2005, 5 ♀♀, IM. Radějov, Lučina (76), 13.v.1998, several ♂♂ ♀♀, IM. Malá Vrbka, Výzkum hill (80), 17.iv.2000, 1 ♀, IM; 2.v.2001, 1 ♀, IM & PK. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 14.v.1998, several ♂♂ ♀♀; 18.iv.2000, 3 ♂♂ 6 ♀♀; 9–10.ix.2000, 1 ♀; all IM. Suchov, Suchovské Mlýny (89), 1.x.2004, 1 ♂, IM. Javorník, Nad Vápenkou NM (94), 7.ix.2002, 1 ♂ 1 ♀, IM. Javorník, Jazevčí NNR (96), 6.v.2000, 3 ♀♀; 10.ix.2000, 4 ♂♂ 1 ♀; all IM. Javorník, Petruchovy Mlýny (97), 2.ix.2004, 1 ♂ 2 ♀♀, IM. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 1 ♂ 1 ♀, IM. Javorník, Machová NR (102), 14.v.1998, several ♂♂ ♀♀, IM. Strání, Záhumenice NM (104), 21.ix.2001, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in various grassland habitats throughout the area. **General distribution:** Western Palearctic. **Host plant:** *Dactylis glomerata*. **Red List status:** –.

Stiroma affinis Fieber, 1866

Material examined. Poteč, Ploščiny NR (12), 4.vii.1999, 3 ♂♂, IM. Bylnice, Bylničky (26), 24.vi.1982, 2 ♂♂, PL. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 1.vii.1999, 1 ♂, PK. Vápenice, Trstná brook valley (55), 6.vii.2001, 2 ♂♂, IM & PK. Kněždub, Kněždubský háj forest (75), 22.vi.2001, 1 ♂, IM & PK. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 2 ♂♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area but quite local; in forest undergrowth and along forest roads. **General distribution:** Eurosiberian. **Host plants:** Poaceae (e.g. *Brachypodium pinnatum*, *Calamagrostis arundinacea*, *Poa nemoralis*, *Avenella flexuosa*, and *Festuca altissima*). **Red List status:** –.

Stiroma bicarinata (Herrich-Schäffer, 1835)

Material examined. Valašské Klobouky, Javorůvky NR (7), 2.vii.1999, 1 ♂; 11.ix.1999, 1 ♂; all IM. Valašské Klobouky, Dobšená NM (8), 2.vii.1999, 2 ♂♂, IM. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 2 ♀♀, MH. Valašské Klobouky, Královec hill (11), 10.ix.1999, 1 ♂, IM. Poteč, Ploščiny NR (12), 4.vii.1999, 6 ♂♂, IM. Valašské Klobouky, Bílé potoky NR (13), 30.vi.1999, 1 ♀, PK; 16.vi.2006, 1 ♂, IM; 11.vii.2006, 8 ♂♂ 1 ♀, IM. Nedašov, Jalovcová stráň NR (17), 3.vii.1999, 1 ♂ 2 ♀♀, IM. Brumov, Kloboucká street (24), 30.vi.2004, 1 ♂ 4 ♀♀, IM. Bylnice, Bylničky (26), 24.vi.1982, 10 ♂♂ 10 ♀♀, PL. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 1.vii.1999, 4 ♂♂ 3 ♀♀, PK. Nedašov, Pod Cigánem NM (30), 30.vi.2004, 1 ♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♂ 3 ♀♀, IM. Strání, Dúbrava hill (62), 7.vii.1980, 3 ♂♂, PL. Lopeník, U Zvonice NM (63), 27.vi.2004, 5 ♂♂ 4 ♀♀; 24.vii.2005, 2 ♀♀; all IM. Lopeník, Lopenické sedlo (64), 27.vi.2004, 2 ♂♂, IM. Výskovec, Pod Hřibovňou NM (70), 28.vi.2004, 15 ♂♂ 12 ♀♀, IM; 21.v.2005, 11 larvae, IM; 24.vii.2005, 1 ♀ 1 larvae, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 19.vi.2000, 4 ♂♂, PK. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 2 ♂♂, IM. Strání, Záhumenice NM (104), 2.vii.2001, 1 ♂, PK. Strání, Javorina NNR (106), 4.vii.2001, 10 ♂♂ 5 ♀♀, IM & PK.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common among tall grass in mesic to wet meadows, along forest margins, in forest glades etc. throughout the area, including the highest elevations. **General distribution:** Eurosiberian. **Host plants:** Poaceae (e.g. *Holcus mollis*, *Glyceria maxima*, *Dactylis glomerata*, *Elytrigia repens*, and *Arrhenatherum elatius*). **Red List status:** –.

Struebingianella lugubrina (Boheman, 1847) (VU)

Material examined. Valašské Klobouky, U Rybníků (6), 10.ix.1999, 1 ♀, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♀, IM & PK. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, many larvae; 8.viii.2007, 11 ♂♂ 28 ♀♀; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Rare and local: recorded only from three sites in the central and north-eastern parts of the area; on shores of a pond and in moderately shaded wet depressions and spring fens. **General distribution:** European. **Host plants:** *Glyceria* spp. **Red List status:** Vulnerable.

Comments. *Struebingianella lugubrina* is a quite widespread although local and stenotopic species in the Czech Republic. It has been documented e.g. from southern,

central and north-eastern Bohemia and central Moravia (DLABOLA 1954, MALENOVSKÝ 2006).

***Xanthodelphax flaveola* (Flor, 1861)**

(VU)

Material examined. Nedašov, Jalovcová stráň NR (17), 28.v.2005, 6 ♂♂ 3 ♀♀, IM. Nedašov, Kaňoury NM (18), 17.vi.2006, 1 ♀, IM. Nedašov, Pod Cigánem NM (30), 30.vi.2004, 1 ♂, IM. Lopeník, Lopenické sedlo (64), 27.vi.2004, 1 ♂ 1 ♀, IM. Vyškovec, Pod Hřibovňou NM (70), 28.vi.2004, 2 ♂♂ 3 ♀♀, IM. Strání, Javorina NNR (106), 4.vii.2001, 2 ♂♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Quite rare and apparently restricted to meadows and pastures at cool sites, largely situated at relatively high elevations. **General distribution:** European. **Host plant:** *Poa pratensis*. **Red List status:** Vulnerable.

Comments. *Xanthodelphax flaveola* used to be a widespread species in central Europe but has declined due to intensification of grassland management in recent decades and is currently largely confined to low-productivity pastures and meadows in submontane and montane altitudes (HOLZINGER *et al.* 2003, NICKEL 2003, KUNZ *et al.* 2011).

***Xanthodelphax straminea* (Stål, 1858)**

Material examined. Poteč, Ploščiny NR (12), 24.viii.2002, 1 ♀, PK. Brumov, Uhličky (14), 28.vii.2005, 1 ♀; 4.ix.2005, 1 ♂; both PK. Nedašov, Jalovcová stráň NR (17), 20.v.1999, 1 ♂; 6.ix.2005, 1 ♂ 2 ♀♀; all IM. Horní Němčí, Drahy NR (48), 23.v.2002, 1 ♀, PK; 21.vii.2002, 3 ♂♂, IM; 10.ix.2002, 1 ♀, IM. Horní Němčí, Vinohrádky (49), 13.viii.2001, 3 ♂♂ 2 ♀♀, PK; 23.v.2002, 1 ♂ 1 ♀, IM & PK. Strání, Obecnice hill (60), 9.viii.2001, 1 ♂, PK; 23.v.2002, 1 ♂, IM. Lopeník, Lopenické sedlo (64), 25.ix.2004, 1 ♂ 1 ♀, IM; 24.vii.2005, 1 ♂, IM; 3.ix.2005, 5 ♂♂ 2 ♀♀, PK. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♀; 8.viii.2007, 4 ♂♂ 11 ♀♀; IM. Starý Hrozenkov, Hrozenkovské terasy (68), 8.viii.2007, 3 ♂♂ 3 ♀♀, IM. Vyškovec, Vyškovcecké Bošáčky (69), 19.viii.2004, 1 ♂ 1 ♀, PK; 21.v.2005, 1 ♂, IM; 3.ix.2005, 2 ♂♂ 1 ♀, PK. Malá Vrbka, Výzkum hill (80), 18.v.2002, 2 ♂♂, IM. Suchov, Trnovský Mlýn (90), 16.viii.2004, 5 ♂♂ 2 ♀♀, PK; 26.v.2005, 2 ♂♂ 3 ♀♀, IM; 27.vii.2005, 4 ♂♂, IM; 1.ix.2005, 6 ♂♂ 4 ♀♀, IM. Javorník, loampit W of village (95), 24.v.2002, 1 ♀, IM. Javorník, Petruchovy Mlýny (97), 27.vii.2005, 1 ♀, IM. Strání, Záhumenice NM (104), 23.v.2002, 1 ♂; 20.vii.2002, 2 ♂♂; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common throughout the area, particularly in pastures and ruderal sites. **General distribution:** Europe, Kazakhstan. **Host plants:** *Agrostis* spp. (*A. canina*, *A. capillaris*, *A. stolonifera*). **Red List status:** –.

Family DICTYOPHARIDAE

***Dictyophara europaea* (Linnaeus, 1767)**

(NT)

Published records. LANG (1945a): Korytná, Lipiny forest (38).

Additional material examined. Bylnice, Na Stráži (25), 11.vii.2006, 2 larvae, IM. Hluk, Babí hora NM (36), 24.viii.2002, 2 ♂♂ 1 ♀, IM. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 12.viii.2008, 1 ♂, KD & KF. Javorník, Nad Vápenkou NM (94), 7.ix.2002, 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Restricted to a few xerothermic sites, largely situated in the south-western part of the area with one isolated record in the

environs of Bylnice; rare in disturbed dry grassland. **General distribution:** Southern parts of central Europe, Mediterranean, Caucasus and steppe regions of Asia. **Host plants:** Polyphagous on dicotyledonous herbs, grasses and shrubs. **Red List status:** Near-threatened.

Comments. In the Czech Republic, *D. europaea* is locally common in warm regions of southern Moravia and central Bohemia (DLABOLA 1954, MALENOVSKÝ *et al.* 2011) but rather rare and local or absent elsewhere.

Family TETTIGOMETRIDAE

Tettigometra fusca Fieber, 1865

(EN)

Published records. MALENOVSKÝ & LAUTERER (2010): Suchov, Trnovský Mlýn (90); Javorník, Nad Vápenkou NM (94).

Additional material examined. Horní Němčí, Drahy NR (48), 21.ix.2001, 1 larva, PK.

Distribution and frequency in the Bílé Karpaty PLA: Sporadic: collected in a sheep pasture on a sunny hillside and two dry grassland sites in the south-western part of the area. **General distribution:** South-eastern parts of central Europe, south-eastern Europe. **Host plants:** Myrmecophilous, associated with the ant nests of *Formica pratensis*. **Red List status:** Endangered.

Comments. *Tettigometra fusca* is a declining species in central Europe (HOLZINGER *et al.* 2003, NICKEL 2003). In the Czech Republic, it is rare and local, recorded from relatively few xerothermic sites in southern and western central Moravia and the environs of Český Krumlov in southern Bohemia (LAUTERER 1957, 1958, 1996; MALENOVSKÝ & LAUTERER 2010).

Tettigometra impressopunctata Dufour, 1846

(VU)

Material examined. Valašské Klobouky, Bílé potoky NR (13), 9.ix.1999, 2 ♀♀, IM; 14.viii.2006, 3 ♀♀, PK. Nedašov, Jalovcová stráž NR (17), 25.vi.2002, 1 ♀, PK; 5.x.2004, 1 ♀, IM. Bylnice, Na Stráži (25), 16.vi.2006, 1 ♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 3 ex., IM. Nedašov, Pod Cigánem NM (30), 5.x.2004, 1 ♂, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, several ex.; 21.ix.2001, 2 ♀♀; all IM; 21.ix.2001, 2 ♀♀, PK; 10.ix.2002, 1 ♂, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, several ex., IM. Starý Hrozenkov, Skalka quarry (67), 8.viii.2007, 1 ♂ 3 ♀♀; 22.ix.2007, 2 ♀♀; all IM. Výskovec, Výskovecké Bošачky (69), 3.ix.2005, 1 ♂, PK. Kněždub, Kněždubský háj forest (75), 20.ix.2001, 1 ♂ 1 ♀, IM. Kněždub, Čertoryje NNR, Járkovec brook valley (77), 12.viii.2008, 1 ♂ 2 ♀♀, KD & KF. Velká nad Veličkou, village (87), 9.ix.2000, 1 ♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 18.iv.2000, 3 ex., IM; 27.vii.2000, 1 ♂ 1 ♀, IM; 18.viii.2000, 1 ex., PK; 9.–10.ix.2000, 11 ex., IM. Suchov, Suchovské Mlýny (89), 1.x.2004, 1 ♂ 1 ♀, IM. Javorník, Nad Vápenkou NM (94), 7.ix.2002, 3 ♀♀, IM. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area; relatively common in sunny, dry meadows and pastures, fragments of dry grassland, xerothermic forest margins, and an abandoned quarry. **General distribution:** Europe except the north. **Host plants:** Perhaps polyphagous and myrmecophilous; adults are usually collected among herbaceous vegetation and less frequently also on shrubs and trees. **Red List status:** Vulnerable.

Comments. Based on published (DLABOLA 1954, MALENOVSKÝ *et al.* 2011) and unpublished data from museum collections and recent field surveys, *T. impressopunctata* is a quite widespread species in relatively warm areas of the Czech Republic (both Bohemia and Moravia), although it is common only locally, being invariably confined to habitats generally valuable from a nature conservationist viewpoint (mostly dry grassland with scattered trees and shrubs, abandoned military training grounds, abandoned quarries etc. with a high concentration of endangered plant and invertebrate species).

***Tettigometra leucophaea* (Preysler, 1792) (CR)**

= *Tettigometra obliqua* (Panzer, 1799)

Published records. LANG (1945a): Suchá Loz, Studený vrch hill (57).

Distribution and frequency in the Bílé Karpaty PLA: Only known from one finding from 1940s, not confirmed in recent years; probably extinct in the area (LAŠTŮVKA *et al.* 2008). **General distribution:** Southern half of the Palaearctic region. **Host plants:** Probably polyphagous. **Red List status:** Critically endangered.

Comments. *Tettigometra leucophaea* has disappeared from large parts of central Europe in a few recent decades (HOLZINGER *et al.* 2003, NICKEL 2003, KUNZ *et al.* 2011). This is also true for the Czech Republic where it used to be common in warm parts of Bohemia and Moravia until 1960s (e.g. DLABOLA 1954). Since then, the species has gone nearly extinct and in recent years, it has been documented only from one site in north-western Bohemia (abandoned military training ground near Podbořany – I. Malenovský, unpublished data).

***Tettigometra virescens* (Panzer, 1799) (EN) (Fig. 4)**

Material examined. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♂; 8.viii.2007, 1 ♀; 22.ix.2007, 1 ♂ 2 ♀♀; all IM. Vyškovec, Vyškovecké Bošáčky (69), 24.vii.2005, 1 ♀, PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 1 ♀, IM. Suchov, Suchovské Mlýny (89), 1.x.2004, 1 ♂ 1 ♀; 1.ix.2005, 1 ♂ 2 ♀♀; all IM. Javorník, Petruchovy Mlýny (97), 1.ix.2005, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Quite rare and local, restricted to the south-western and central parts of the area; in pastures on sunny hillsides, fragments of dry grasslands and on the bottom of an abandoned quarry. **General distribution:** Southern parts of central Europe, Mediterranean region. **Host plants:** Usually found on low growing vegetation, perhaps polyphagous and myrmecophilous. **Red List status:** Endangered.

Comments. In the Czech Republic, *T. virescens* is probably largely restricted to species-rich, non-intensively managed dry meadows and pastures with scattered trees and shrubs in lowlands and hills of south-eastern Moravia (DLABOLA 1954, MALENOVSKÝ *et al.* 2011).

Family ISSIDAE

Issus coleoptratus (Fabricius, 1781)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Suchá Loz, Studený vrch hill (57), 6.viii.2001, 1 ♂, MH. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂; 28.vii.2000, 1 ♂; both IM. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 1 ♀, IM & PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 18.iv.2000, 2 larvae, IM; 19.vi.2000, 1 ♀, PK; 9.–10.ix.2000, 1 ♂ 1 ♀, IM. Javorník, Jazevčí NNR (96), 10.ix.2000, 1 ♀, IM. Strání, Záhumenice NM (104), 10.vii.1998, 1 ♀, MH.

Distribution and frequency in the Bílé Karpaty PLA: Probably restricted to the relatively warmer, south-western part of the area; along sunny forest margins, uncommon. **General distribution:** Western Palaearctic. **Host plants:** Polyphagous, mainly on bark and branches of deciduous trees and shrubs. **Red List status:** –.

Issus muscaeformis (Schrank, 1781)

(VU)

Material examined. Valašské Klobouky, Javorůvky NR (7), 24.viii.2002, 1 ♀, PK. Poteč, Ploščiny NR (12), 17.viii.2006, 1 ♂, PK. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 1 ♂; 10.ix.1999, 1 ♂, IM. Strání, Javorina NNR (106), 29.x.2011, 2 larvae, IM.

Distribution and frequency in the Bílé Karpaty PLA: Probably restricted to relatively cool sites in the north-eastern part of the area and Mt Velká Javořina; along sunny forest margins, quite rare. **General distribution:** Western Palaearctic. **Host plants:** Polyphagous, mainly on bark and branches of deciduous trees and shrubs (e.g. *Quercus*, *Carpinus*, *Fagus*, and *Corylus*). **Red List status:** Vulnerable.

Comments. In the Czech Republic, *I. muscaeformis* is a relatively rare species which has been recorded e.g. from the environs of Prague, the Bohemian Karst and the Kokořínsko PLA in central Bohemia and the environs of Olomouc in central Moravia (DLABOLA 1954, MALENOVSKÝ 2006).

Suborder CICADOMORPHA

Family CICADIDAE

Cicadetta montana (Scopoli, 1772)

(VU)

Published records. JONGEPIEROVÁ *et al.* (1992): Radějov, Kútky NR (86). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79). MACKOVČIN & JATIOVÁ (2002): Radějov, Žerotín NM (73); Radějov, Kútky NR (86). **Additional material examined.** Poteč, Ploščiny NR (12), 4.vii.1999, 1 larval exuvia, IM. Suchov, Kazivec brook valley (47), 14.vi.2006, 1 ♀, OK.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread but quite rare and confined to relatively warm and sunny sites, particularly forest margins and open woodland. **General distribution:** Palaearctic. **Host plants:** Polyphagous on woody plants, larvae live on roots in the soil. **Red List status:** Vulnerable.

Comments. *Cicadetta montana* as traditionally understood is a complex of several sibling species of which at least three are present in central Europe; the individual species are morphologically very similar and differ mainly by bioacoustical characters (GOGALA & TRILAR 2004, HERTACH 2007, SUEUR & PUISSANT 2007). The taxonomic identity of the Czech populations still remain to be ascertained. Based on preliminary observations, the most widespread species in the country is *Cicadetta montana* sensu stricto which is also present in the Bílé Karpaty PLA (at least the above cited female from the Kazivec brook valley is tentatively identified here as *C. montana* s.str. based on a relatively large forewing with dark subcostal vein).

Family CERCOPIIDAE

Cercopis arcuata Fieber, 1844

(VU)

(Fig. 5)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Brumovská street (5), 19.v.1999, 2 ♂♂ 1 ♀, IM. Valašské Klobouky, U Rybníků (6), 22.v.1999, 1 ♀, IM. Valašské Klobouky, Javorůvky NR (7), 22.v.1999, 1 ♂ 1 ♀, IM. Valašské Klobouky, Bílé potoky NR (13), 19.v.1999, 2 ♀♀, IM. Nedašov, Jalovcová stráň NR (17), 17.vi.2006, 1 ♀, IM. Svatý Štěpán, Nadřičí (32), 21.v.1999, 1 ♂, IM. Horní Němčí, Horní kopec hill (50), 23.v.2002, 1 ♀, IM. Vyškovec, Vyškovecké Bošačky (69), 8.v.2004, 2 ♂♂, IM; 27.vi.2004, 1 ♀; 21.v.2005, 4 ♂♂ 12 ♀♀; all IM. Vyškovec, Pod Hribovňou NM (70), 21.v.2005, 5 ♂♂ 1 ♀, IM. Vyškovec, Ve Vlčí NR (71), 22.v.2005, 16 ♂♂ 12 ♀♀, IM. Javorník, Jazevčí NNR (96), 6.v.2000, 1 ♂ 6 ♀♀, IM. Javorník, Machová NR (102), 4.vi.2010, 1 ♀, MT, JM & PC.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area and locally common in mesic meadows, along forest margins and on waysides. **General distribution:** Southern parts of central and eastern Europe, central and eastern Mediterranean region. **Host plants:** Probably polyphagous on grasses and herbs. **Red List status:** Vulnerable.

Comments. *Cercopis arcuata* reaches its northern limit of distribution in the Czech Republic (HOLZINGER *et al.* 2003). Recently, it has been recorded only in Moravia with the northernmost record on the Kotouč hill near Štramberk at the foothills of the Moravskoslezské Beskydy Mts. (DLABOLA 1954). LAUTERER (1958) reports it from central Moravia (Kroměříž environs). In general, the species probably occurs in Moravia quite locally and has not been documented from large areas, including the Pannonian part of southern Moravia.

Cercopis sanguinolenta (Scopoli, 1763)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, U Rybníků (6), 22.v.1999, 1 ♂, IM. Valašské Klobouky, Dobšená NM (8), 22.v.1999, 1 ♂; 2.vii.1999, 2 ♀♀; all IM. Valašské Klobouky, Brumovka brook valley (9), 19.v.1999, 1 ♀, IM; 30.vi.1999, 1 ♀, MH. Poteč, Ploštiny NR (12), 1.vi.2002, 78 ♂♂ 49 ♀♀, IM. Valašské Klobouky, Bílé potoky NR (13), 16.vi.2006, 6 ♂♂ 8 ♀♀, IM. Brumov, Uhličky (14), 28.v.2005, 6 ♂♂ 4 ♀♀, IM. Nedašov, Jalovcová stráň NR (17), 20.v.1999, 1 ♀; 3.vii.1999, 1 ♀; 28.v.2005, 14 ♂♂ 20 ♀♀; 17.vi.2006, 1 ♂ 4 ♀♀; all IM. Nedašov, Kaňoury NM (18), 17.vi.2006, 8 ♂♂ 5 ♀♀, IM; 12.vii.2006, 1 ♀, IM. Nedašov, Kaňúr hill and Hrušová dolina valley (19), 20.v.1999, 1 ♂, IM. Brumov, Kloboucká street (24), 30.vi.2004, 4 ♀♀; 28.v.2005, 9 ♂♂ 13 ♀♀; all IM. Bylnice, Na Stráži (25), 16.vi.2006, 2 ♂♂ 8 ♀♀, IM. Blatnička,

Leafhoppers and planthoppers (Hemiptera: Auchenorrhyncha)

Milejovské louky meadows (39), 24.v.2009, 2 ♂♂ 2 ♀♀, PB. Suchov, Kazivec brook valley (47), 15.v.1998, 1 ♂, IM. Horní Němčí, Drahy NR (48), 15.v.1998, several ♂♂ ♀♀, IM; 23.v.2002, 1 ♂ 1 ♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 16.v.1998, several ♂♂ ♀♀, IM. Výskovec, Výskovecké Bošacký (69), 27.vi.2004, 1 ♀; 21.v.2005, 13 ♂♂ 13 ♀♀; all IM. Radějov, Lučina (76), 13.v.1998, several ♂♂ ♀♀, IM. Kněždub, Čertoryje NNR (77, 79), 22.v.2000, 1 ♀, PK. Malá Vrbka, Výzkum hill (80), 18.v.2002, 5 ♂♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 14.v.1998, 2 ♀♀, IM; 19.vi.2000, 1 ♀, PK. Suchov, Suchovské Mlýny (89), 6.v.2000, 1 ♂; 26.v.2005, 1 ♂ 2 ♀♀; all IM. Javorník, loampit W of village (95), 24.v.2002, 1 ♀, IM. Javorník, Jazevčí NNR (96), 6.v.2000, 1 ♂; 19.vi.2000, 1 ♀; both IM. Javorník, Petruchovy Mlýny (97), 26.v.2005, 1 ♀, IM. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 1 ♀, IM. Javorník, Machová NR (102), 14.v.1998, several ♂♂ ♀♀, IM; 4.vii.1998, 2 ♀♀, IM; 4.vi.2010, 2 ♂♂ 3 ♀♀; 14.vi.2010, 3 ♂♂ 3 ♀♀; all MT, JM & PC. Strání, Záhumenice NM (104), 23.v.2002, 1 ♂ 2 ♀♀, IM & PK. Strání, Javorina NNR (106), 4.vii.2001, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area in tall stands of grass and herbs in meadows, along forest margins and on waysides. **General distribution:** Southern parts of central Europe, Mediterranean region, Asia Minor. **Host plants:** Polyphagous on grasses and herbs. **Red List status:** –.

Cercopis vulnerata Rossi, 1807

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Javorůvky NR (7), 22.v.1999, 1 ♀, IM. Poteč, Ploštiny NR (12), 1.vi.2002, 7 ♂♂ 3 ♀♀, IM. Valašské Klobouky, Bílé potoky NR (13), 16.vi.2006, 2 ♂♂, IM. Nedašov, Kaňoury NM (18), 17.vi.2006, 1 ♀, IM. Nedašov, Kaňour hill and Hrušová dolina valley (19), 20.v.1999, 1 ♂, IM. Bylnice, Na Stráži (25), 16.vi.2006, 1 ♀, IM. Bylnice, railway station environs (27), 21.v.1999, 1 ♂, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 21.v.1999, 1 ♂ 1 ♀, IM. Suchov, Kazivec brook valley (47), 15.v.1998, 1 ♂, IM. Horní Němčí, Drahy NR (48), 15.v.1998, several ♂♂ ♀♀, IM. Horní Němčí, Horní kopec hill (50), 23.v.2002, 1 ♂ 1 ♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 16.v.1998, several ♂♂ ♀♀, IM. Výskovec, Výskovecké Bošacký (69), 21.v.2005, 1 ♀, IM. Výskovec, Ve Vlčí NR (71), 22.v.2005, 1 ♂, IM. Radějov, Lučina (76), 13.v.1998, several ♂♂ ♀♀, IM. Javorník, Jazevčí NNR (96), 6.v.2000, 1 ♂ 1 ♀; 19.vi.2000, 1 ♀; all IM. Javorník, Petruchovy Mlýny (97), 24.v.2002, 1 ♀, PK. Javorník, Machová NR (102), 14.v.1998, several ♂♂ ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common throughout the area, usually preferring shaded and relatively humid places in meadows, along forest margins, forest roads etc., being absent from xerothermic sites. **General distribution:** Europe except the north. **Host plants:** Polyphagous on tall herbs and grasses. **Red List status:** –.

Family APHROPHORIDAE

Aphrophora alni (Fallén, 1805)

Published records. LANG (1945a): Korytná, Lipiny forest (38); Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99); Suchá Loz, Studený vrch hill (57). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Petrůvka, U Petrůvky NM (3), 6.viii.1999, 2 ♂♂, PK. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 2 ♀♀, IM. Valašské Klobouky, Javorůvky NR (7), 2.vii.1999, 1 ♂; 11.ix.1999, 3 ♂♂; all IM. Valašské Klobouky, Dobšená NM (8), 2.vii.1999, 2 ♂♂ 1 ♀; 10.ix.1999, 1 ♂; all IM. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 1 ♂, MH; 9.ix.1999, 2 ♂♂ 1 ♀, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 1 ♀, IM. Poteč, Ploštiny NR (12), 4.vii.1999, 1 ♀, IM; 13.ix.1999, 1 ♂ 1 ♀, IM; 24.viii.2002, 1 ♀, IM; 17.viii.2006, 3 ♀♀, PK. Valašské Klobouky, Bílé potoky NR (13), 30.vi.1999, 2 ♂♂,

PK; 9.ix.1999, 2 ♂♂ 1 ♀, IM; 23.viii.2002, 1 ♀, PK; 16.vi.2006, 1 ♂ 1 ♀, IM; 11.vii.2006, 2 ♂♂ 3 ♀♀, IM; 14.viii.2006, 3 ♀♀, PK. Brumov, Uhličky (14), 30.vi.2004, 5 ♂♂ 3 ♀♀; 1.ix.2004, 3 ♂♂ 25 ♀♀; all IM; 28.vii.2005, 3 ♀♀; 4.ix.2005, 4 ♂♂ 12 ♀♀; all PK; 7.ix.–6.x.2005, 1 ♀, PT, KR. Nedašov, village (15), 3.vii.1999, 2 ♀♀, IM; 17.viii.2006, 1 ♂, PK. Nedašov, Jalovcová stráň NR (17), 3.vii.1999, 3 ♂♂; 10.ix.1999, many ♂♂ ♀♀; 30.vi.2004, 9 ♂♂ 19 ♀♀; 1.ix.2004, 6 ♂♂ 18 ♀♀; 5.x.2004, 1 ♂ 1 ♀; 28.vii.2005, 11 ♂♂ 14 ♀♀; 6.ix.2005, 3 ♂♂ 3 ♀♀; all IM; 25.vi.2002, 1 ♀; 16.viii.2006, 1 ♂ 1 ♀; all PK. Nedašov, Kaňoury NM (18), 17.vi.2006, 3 ♂♂ 1 ♀, IM; 12.vii.2006, 2 ♀♀, IM; 16.viii.2006, 3 ♂♂ 3 ♀♀, PK. Brumov, Kloboucká street (24), 30.vi.2004, 32 ♂♂ 68 ♀♀, IM; 2.ix.2004, 1 ♂ 11 ♀♀, IM; 28.vii.2005, 2 ♂♂ 4 ♀♀, PK; 4.ix.2005, 4 ♂♂ 5 ♀♀, PK. Bylnice, Na Stráži (25), 16.vi.2006, 2 ♂♂ 3 ♀♀, IM; 11.vii.2006, 1 ♀, IM; 18.viii.2006, 1 ♀, PK. Bylnice, railway station environs (27), 1.vii.1999, 1 ♀, MH & PK; 11.ix.1999, 1 ♂, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 1.vii.1999, 1 ♂, PK; 12.ix.1999, 1 ♂ 1 ♀, IM. Nedašov, Pod Cigánem NM (30), 30.vi.2004, 4 ♂♂ 4 ♀♀; 1.ix.2004, 29 ♂♂ 27 ♀♀; 5.x.2004, 3 ♂♂ 2 ♀♀; 28.vii.2005, 5 ♂♂ 16 ♀♀; 6.ix.2005, 3 ♂♂ 8 ♀♀; all IM. Nedašov, Na Salaši (29), 10.ix.1999, 1 ♂ 1 ♀, IM. Svatý Štěpán, Nadřiči (32), 12.ix.1999, 1 ♂, IM. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 1 ♂, IM. Lipov (34), 10.vii.2008, 1 ♂, ZM. Hluk, Kobylí hlava NM (35), 24.viii.2002, 2 ♂♂ 1 ♀, IM. Hluk, Babí hora NM (36), 24.viii.2002, 1 ♀, IM. Blatnička, Milejovské louky meadows (39), 11.vii.2009, 2 ♀♀, PB. Korytná, Březí (46), 5.vii.2001, 2 ♀♀, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 1 ♂, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, several ♂♂ ♀♀; 30.vi.2001, 1 ♂; 21.vii.2002, 1 ♂; 10.ix.2002, 1 ♂; all IM. Horní Němčí, Vinohrádky (49), 10.ix.2002, 1 ♀, IM. Horní Němčí, Uvezené NM (50a), 10.vii.2009, 1 ♂ 1 ♀, ZM. Komňa, Lom Rasová NM (54), 5.vii.2001, 2 ♂♂, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♂, IM & PK. Březová, Kalábová NM (58), 4.vii.2001, 1 ♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♀; 10.ix.1998, several ♂♂ ♀♀; all IM. Lopeník, U Zvonice NM (63), 27.vi.2004, 9 ♂♂ 5 ♀♀, IM; 18.viii.2004, 4 ♂♂ 15 ♀♀, PK; 25.ix.2004, 4 ♂♂ 4 ♀♀, IM; 24.vii.2005, 2 ♂♂ 2 ♀♀, IM; 3.ix.2005, 3 ♂♂ 1 ♀, PK. Lopeník, Lopenické sedlo (64), 25.ix.2004, 1 ♂ 1 ♀, IM; 24.vii.2005, 1 ♂, IM; 3.ix.2005, 1 ♀, PK. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♂; 8.viii.2007, 1 ♂; 22.ix.2007, 1 ♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 3 ♂♂ 3 ♀♀; 22.ix.2007, 1 ♂ 1 ♀; all IM. Vyškovec, Vyškovecké Bošačky (69), 27.vi.2004, 1 ♂, IM; 19.viii.2004, 4 ♂♂ 2 ♀♀, PK; 25.ix.2004, 2 ♀♀, PK; 21.v.2005, 6 ♂♂ 5 ♀♀ 1 larva, IM; 3.ix.2005, 1 ♂ 1 ♀, PK. Vyškovec, Vyškovecké Bošačky (69), 27.vi.2004, 5 ♂♂ 5 ♀♀, IM; 19.viii.2004, 9 ♂♂ 29 ♀♀, PK; 25.ix.2004, 19 ♂♂ 17 ♀♀, PK; 24.vii.2005, 19 ♂♂ 31 ♀♀, PK; 3.ix.2005, 25 ♂♂ 26 ♀♀, PK. Vyškovec, Pod Hřibovnou NM (70), 28.vi.2004, 16 ♂♂ 14 ♀♀, IM; 19.viii.2004, 2 ♂♂ 5 ♀♀, PK; 25.ix.2004, 2 ♂♂ 3 ♀♀, PK; 24.vii.2005, 3 ♀♀, PK; 8.ix.2005, 2 ♂♂ 6 ♀♀, IM. Radějov, Žerotín NM (73), 11.vii.1998, 1 ♂ 1 ♀, IM; 9.viii.2002, 1 ♂, PK. Radějov, Holý vrch hill (74), 8.ix.1998, 1 ♂, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 2 ♀♀, IM; 17.viii.2000, 1 ♂ 2 ♀♀, PK; 22.vi.2001, 1 ♂, IM & PK. Radějov, Lučina (76), 14.vii.1998, 1 ♂, IM. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 1 ♂, MT, JM & PC. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 1 ♂; 27.vii.2000, 1 ♂ 4 ♀♀; all IM & PK. Hrubá Vrbka, football ground (82), 20.ix.2001, 1 ♂, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♂ 1 ♀, IM; 20.viii.2002, 1 ♂, PK. Radějov, Kútky NR (86), 8.ix.1998, 1 ♀, IM. Velká nad Veličkou, village (87), 19.vi.2000, 2 ♂♂, PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 18.viii.2000, 1 ♀, PK; 9.–10.ix.2000, 1 ♂, IM. Suchov, Suchovské Mlýny (89), 23.vi.2004, 2 ♂♂, IM; 18.viii.2004, 8 ♂♂ 18 ♀♀, PK; 1.x.2004, 4 ♂♂ 3 ♀♀, IM; 27.vii.2005, 6 ♂♂ 24 ♀♀, IM; 1.ix.2005, 10 ♀♀, IM. Suchov, Trnovský Mlýn (90), 27.vii.2005, 1 ♂ 1 ♀, IM. Javorník, Nad Vápenkou NM (94), 9.vii.1998, several ♂♂ ♀♀, IM. Javorník, loampit W of village (95), 7.ix.1998, 1 ♀, IM; 10.vii.2009, 1 ♀, ZM. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂ 1 ♀; 10.ix.2000, 2 ♀♀; all IM. Javorník, Petruchovy Mlýny (97), 23.vi.2004, 1 ♂; 2.ix.2004, 9 ♀♀; 1.x.2004, 1 ♀; 27.vii.2005, 4 ♀♀; 1.ix.2005, 3 ♂♂ 1 ♀; all IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 3 ♂♂, IM. Strání, Záhumenice NM (104), 2.vii.2001, 1 ♀, IM; 9.viii.2001, 6 ♂♂ 12 ♀♀, PK; 21.ix.2001, 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in various habitats throughout the area: along forest margins, on woody vegetation along streams and around ponds and springs, on solitary shrubs and trees scattered in grassland, in the herb layer of non-intensively used meadows and pastures etc. **General distribution:** Palaearctic. **Host plants:** Polyphagous on dicotyledonous plants. **Red List status:** –.

Aphrophora corticea Germar, 1821

Material examined. Nedašov, Jalovcová stráň NR (17), 12.vii.2006, 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Sporadic: known from only one site in the north-eastern part of the area (a small, artificially planted pine wood). **General distribution:** Eurosiberian. **Host plants:** *Pinus sylvestris* and *P. nigra*. **Red List status:** –.

Aphrophora pectoralis Matsumura, 1903

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, U Rybníků (6), 10.ix.1999, 1 ♀, IM. Poteč, Ploščiny NR (12), 4.vii.1999, 1 ♀; 13.ix.1999, 2 ♂♂ 1 ♀; all IM. Valašské Klobouky, Bílé potoky NR (13), 30.vi.1999, 3 ♂♂ 3 ♀♀, PK; 9.ix.1999, 1 ♂ 3 ♀♀, IM; 11.vii.2006, 1 ♂, IM; 14.viii.2006, 1 ♀, PK. Nedašov, Jalovcová stráň NR (17), 12.vii.2006, 1 ♂, IM. Bylnice, railway station environs (27), 1.vii.1999, 3 ♂♂, MH & PK; 11.ix.1999, 3 ♂♂ 2 ♀♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 1.vii.1999, 1 ♂, PK; 12.ix.1999, 1 ♂ 1 ♀, IM. Nedašov, Na Salaši (29), 10.ix.1999, 1 ♂, IM. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 4 ♂♂, IM. Korytná, Březí (46), 5.vii.2001, 1 ♀, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, many ♂♂ ♀♀, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, several ♂♂ ♀♀; 30.vi.2001, 6 ♂♂; all IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♀; 10.ix.1998, 1 ♀; both IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♂ 1 ♀; 8.viii.2007, 1 ♀; 22.ix.2007, 1 ♂; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♀, IM. Radějov, Lučina (76), 22.vi.2001, 1 ♂, IM & PK. Radějov, Kútky NR (86), 11.vii.1998, 1 ♀; 8.ix.1998, 2 ♀♀; all IM. Velká nad Veličkou, village (87), 9.ix.2000, 1 ♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 1 ♀, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 2 ♂♂ 2 ♀♀; 10.ix.2000, 1 ♂; all IM. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, several ♂♂ ♀♀, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 1 ♀, IM. Javorník, Machová NR (102), 9.vii.1998, 1 ♂ 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area, usually in the vicinity of standing or running water: streams, ponds and springs. **General distribution:** Palaearctic. **Host plants:** *Salix* spp. (mainly *S. caprea*, *S. purpurea*, *S. cinerea* and *S. aurita*). **Red List status:** –.

Aphrophora salicina (Goeze, 1778)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Bylnice, railway station environs (27), 1.vii.1999, 1 ♂, MH & PK; 11.ix.1999, 3 ♂♂, IM. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 1 ♂ 1 ♀, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, several ♂♂ ♀♀; 30.vi.2001, 1 ♂; all IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 2 ♂♂, IM. Radějov, Lučina (76), 14.vii.1998, 1 ♂ 3 ♀♀, IM. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 1 ♂ 1 ♀, IM & PK. Malá Vrbka, village (81), 19.vi.2000, 2 ♀♀, IM & PK. Radějov, Kútky NR (86), 8.ix.1998, 1 ♂, IM. Velká nad Veličkou, village (87), 19.vi.2000, 1 ♀, PK. Javorník, Machová NR (102), 9.vii.1998, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area but confined to relatively low elevations and valleys; in the vicinity of streams, ponds and springs and on ornamental willows in villages. **General distribution:** Palaearctic. **Host plants:** *Salix* spp. (mainly *S. alba* and *S. purpurea*). **Red List status:** –.

***Lepyronia coleoptrata* (Linnaeus, 1758)**

Published records. LANG (1945a): Korytná, Lipiny forest (38). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Petrůvka, U Petrůvky NM (3), 6.viii.1999, 1 ♂, PK. Valašské Klobouky, Dobšená NM (8), 2.vii.1999, 1 ♀; 10.ix.1999, 5 ♀♀; all IM. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 2 ♂♂ 1 ♀, MH; Valašské Klobouky, Brumovka brook valley (9), 9.ix.1999, 1 ♀, IM. Poteč, Ploščiny NR (12), 4.vii.1999, 1 ♂; 13.ix.1999, 1 ♂ 4 ♀♀; 1.vi.2002, 1 ♂; all IM. Valašské Klobouky, Bílé potoky NR (13), 30.vi.1999, 2 ♂♂ 1 ♀, PK; 9.ix.1999, 1 ♂ 4 ♀♀, IM; 16.vi.2006, 2 ♂♂, IM; 11.vii.2006, 1 ♂ 1 ♀, IM; 14.viii.2006, 1 ♂ 1 ♀, PK. Brumov, Uhličky (14), 30.vi.2004, 3 ♂♂; 1.ix.2004, 1 ♂ 1 ♀; all IM. Nedašov, village (15), 3.vii.1999, 1 ♂, IM. Nedašov, Jalovcová stráň NR (17), 3.vii.1999, 1 ♂ 2 ♀♀; 10.ix.1999, many ♂♂ ♀♀; 30.vi.2004, 31 ♂♂ 14 ♀♀; 1.ix.2004, 2 ♂♂ 12 ♀♀; 5.x.2004, 10 ♀♀; 28.vii.2005, 1 ♂ 3 ♀♀; 6.ix.2005, 1 ♂ 15 ♀♀; 17.vi.2006, 2 ♂♂; all IM; 25.vi.2002, 1 ♀; 16.viii.2006, 3 ♀♀; all PK. Nedašov, Kaňoury NM (18), 17.vi.2006, 1 ♂, IM; 12.vii.2006, 1 ♂ 1 ♀, IM; 16.viii.2006, 4 ♀♀, PK. Brumov, Kloboucká street (24), 30.vi.2004, 242 ♂♂ 152 ♀♀; 2.ix.2004, 13 ♂♂ 69 ♀♀; 5.x.2004, 3 ♂♂ 9 ♀♀; all IM; 28.vii.2005, 5 ♂♂ 18 ♀♀; 4.ix.2005, 2 ♂♂ 13 ♀♀; all PK; 4.vii.–6.viii.2005, 3 ♂♂, PT, KR. Bylnice, Na Stráži (25), 16.vi.2006, 3 ♂♂, IM; 11.vii.2006, 2 ♂♂ 1 ♀, IM; 18.viii.2006, 1 ♀, PK. Bylnice, railway station environs (27), 1.vii.1999, 1 ♀, MH & PK. Bylnice, Lazy NR and surrounding meadows on N slopes of Plánava hill (28), 12.ix.1999, 1 ♀, IM. Hluk, Kobyly hlava NM (35), 24.viii.2002, 1 ♀, IM. Hluk, Babí hora NM (36), 24.viii.2002, 3 ♀♀, IM. Blatnička, Milejovské louky meadows (39), 11.vii.2009, 4 ♀♀; 16.viii.2009, 1 ♂ 1 ♀; all PB. Louka, Hloží NR (42), 7.ix.1998, 1 ♀, IM. Korytná, Březí (46), 5.vii.2001, 1 ♀, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, several ♂♂ ♀♀, IM; 30.vi.2001, 5 ♂♂ 3 ♀♀, IM & PK; 13.viii.2001, 1 ♀, PK; 21.vii.2002, 6 ♂♂ 10 ♀♀, IM; 10.ix.2002, 1 ♂ 7 ♀♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, many ♂♂ ♀♀, IM. Strání, Obecnice hill (60), 21.ix.2001, 1 ♀, IM; 20.vii.2002, 1 ♀, IM; 12.ix.2002, 2 ♀♀, IM. Lopeník, U Zvonice NM (63), 24.vii.2005, 2 ♂♂, IM. Lopeník, Lopenické sedlo (64), 25.ix.2004, 1 ♂ 2 ♀♀, IM; 24.vii.2005, 1 ♂, IM; 3.ix.2005, 1 ♂ 1 ♀, PK. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 6 ♂♂ 2 ♀♀; 8.viii.2007, 1 ♂ 1 ♀; 22.ix.2007, 1 ♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 3 ♂♂ 5 ♀♀; 8.viii.2007, 2 ♀♀; all IM. Vyskovec, Vyskovecké Bošačky (69), 27.vi.2004, 12 ♂♂ 10 ♀♀, IM; 19.viii.2004, 2 ♀♀, PK; 25.ix.2004, 1 ♂ 1 ♀, PK; 24.vii.2005, 3 ♂♂, PK; 3.ix.2005, 1 ♂ 1 ♀, PK. Vyskovec, Pod Hribovňou NM (70), 28.vi.2004, 2 ♂♂, IM; 19.viii.2004, 1 ♂ 11 ♀♀, PK; 25.ix.2004, 1 ♂, PK; 24.vii.2005, 4 ♂♂ 11 ♀♀, PK; 8.ix.2005, 2 ♀♀, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 2 ♀♀, IM; 17.viii.2000, 1 ♀, PK; 20.ix.2001, 1 ♀, IM. Malá Vrbka, Výzkum hill (80), 8.ix.2000, 1 ♀, PK. Hrubá Vrbka, football ground (82), 16.viii.2000, 1 ♀, PK; 20.ix.2001, 1 ♀, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♀, IM. Radějov, Veselka hill (85), 11.vii.1998, 1 ♂, IM. Radějov, Kůtky NR (86), 11.vii.1998, 1 ♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 1 ♂ 1 ♀, IM; 18.viii.2000, 2 ♀♀, PK; 9.–10.ix.2000, 1 ♂ 1 ♀, IM. Suchov, Suchovské Mlýny (89), 23.vi.2004, 5 ♂♂ 4 ♀♀, IM; 16.viii.2004, 6 ♂♂ 9 ♀♀, PK; 1.x.2004, 4 ♀♀, IM; 7.vii.2005, 7 ♂♂ 17 ♀♀, IM; 1.ix.2005, 7 ♂♂ 19 ♀♀, IM. Suchov, Trnovský Mlýn (90), 16.viii.2004, 2 ♀♀, PK; 1.x.2004, 1 ♀, IM; 27.vii.2005, 2 ♀♀, IM; 1.ix.2005, 6 ♀♀, IM. Javorník, Nad Vápenkou NM (94), 7.ix.2002, 2 ♀♀, IM. Javorník, loampit W of village (95), 7.ix.1998, 1 ♂; 24.v.2002, 1 ♂ 1 ♀; all IM; 10.vii.2009, 1 ♂ 1 ♀, ZM. Javorník, Jazevčí NNR (96), 19.vi.2000, 3 ♂♂ 1 ♀; 10.ix.2000, 1 ♀, all IM. Javorník, Petruchovy Mlýny (97), 23.vi.2004, 1 ♂; 2.ix.2004, 2 ♀♀; 1.x.2004, 2 ♀♀; 27.vii.2005, 3 ♀♀; 1.ix.2005, 1 ♀; all IM. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 2 ♂♂ 1 ♀; 9.ix.1998, several ♂♂ ♀♀; all IM. Javorník, Machová NR (102), 9.vii.1998, several ♂♂ ♀♀, IM. Strání, Záhumenice NM (104), 2.vii.2001, 1 ♀, IM; 9.viii.2001, 1 ♂ 3 ♀♀, PK; 21.ix.2001, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in various open grassland habitats throughout the area: meadows, pastures, waysides, ruderal sites etc. **General distribution:** Palaearctic. **Host plants:** Polyphagous on herbs and grasses. **Red List status:** –.

***Neophilaenus albipennis* (Fabricius, 1798)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Poteč, Ploštiny NR (12), 4.vii.1999, 1 ♀, IM; 13.ix.1999, 1 ♀, IM; 17.viii.2006, 2 ♂♂ 2 ♀♀, PK. Valašské Klobouky, Bílé potoky NR (13), 16.vi.2006, 3 ♂♂, IM; 11.vii.2006, 4 ♂♂ 1 ♀, IM; 14.viii.2006, 1 ♀, PK. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 2 ♀♀; 30.vi.2004, 4 ♂♂ 1 ♀; 5.x.2004, 1 ♂ 1 ♀; 28.vii.2005, 1 ♂; all IM; 16.viii.2006, 3 ♂♂ 1 ♀, PK. Brumov, Kloboucká street (24), 30.vi.2004, 5 ♂♂ 2 ♀♀, IM; 28.vii.2005, 3 ♂♂ 6 ♀♀, PK; 4.ix.2005, 1 ♂ 4 ♀♀, PK. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 2 ♀♀, IM. Hluk, Babí hora NM (36), 24.viii.2002, 1 ♂ 3 ♀♀, IM. Louka, Hloží NR (42), 7.ix.1998, 1 ♂, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, many ♂♂ ♀♀, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, 1 ♀, IM; 30.vi.2001, 2 ♂♂ 3 ♀♀, IM & PK; 13.viii.2001, 1 ♂ 3 ♀♀, PK; 21.ix.2001, 2 ♀♀, PK; 23.v.2002, 1 ♂, IM; 21.vii.2002, 12 ♂♂ 6 ♀♀, IM; 10.ix.2002, 1 ♂ 2 ♀♀, IM. Starý Hrozenkov, Skalka quarry (67), 8.viii.2007, 1 ♀, IM. Radějov, Žerotín NM (73), 11.vii.1998, 1 ♂, IM. Kněždub, Kněždubský háj forest (75), 28.vii.2000, 2 ♂♂ 1 ♀, IM. Malá Vrbka, Výzkum hill (80), 28.vii.2001, 1 ♀, IM & PK. Radějov, Měsíční údolí valley (84), 20.viii.2002, 1 ♀, PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 2 ♂♂ 3 ♀♀, IM; 18.viii.2000, 2 ♂♂, PK. Suchov, Suchovské Mlýny (89), 23.vi.2004, 1 ♂, IM. Suchov, Trnovský Mlýn (90), 1.ix.2005, 2 ♂♂, IM. Javorník, Nad Vápenkou NM (94), 9.vii.1998, several ♂♂ ♀♀, IM. Javorník, loampit W of village (95), 7.ix.1998, 1 ♂, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 3 ♂♂; 10.ix.2000, 1 ♂ 2 ♀♀; all IM. Javorník, Petruchovy Mlýny (97), 9.viii.2001, 1 ♂, PK. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 3 ♂♂; 9.ix.1998, 1 ♀; all IM. Javorník, Machová NR (102), 9.vii.1998, several ♂♂ ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area except the coolest and acid sites; in dry meadows and pastures and along forest margins. **General distribution:** Europe except the north, north Africa, Siberia. **Host plants:** *Brachypodium pinnatum*. **Red List status:** —.

***Neophilaenus campestris* (Fallén, 1805)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79). KMENT & MALENOVSKÝ (2008): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Nedašov, Jalovcová stráž NR (17), 6.ix.2005, 1 ♀, IM. Lipov (34), 10.vii.2009, 1 ♀, ZM. Hluk, Kobylí hlava NM (35), 24.viii.2002, 4 ♂♂ 1 ♀, IM. Hluk, Babí hora NM (36), 24.viii.2002, 2 ♂♂ 3 ♀♀, IM. Blatnička, Milejovské louky meadows (39), 24.v.2009, 1 ♂ 1 ♀; 11.vii.2009, 2 ♂♂; 16.viii.2009, 1 ♂; all PB. Korytná, Březí (46), 5.vii.2001, 1 ♂, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, 1 ♀; 30.vi.2001, 2 ♂♂ 3 ♀♀; all IM; 13.viii.2001, 3 ♀♀, PK; 21.ix.2001, 14 ♂♂ 20 ♀♀, PK; 10.ix.2002, 107 ♂♂ 131 ♀♀, IM. Horní Němčí, Vinohrádky (49), 30.vi.2001, 5 ♂♂ 2 ♀♀, IM; 21.ix.2001, 4 ♂♂ 8 ♀♀, PK; 10.ix.2002, 69 ♂♂ 62 ♀♀, IM. Horní Němčí, Uvezené NM (50a), 10.vii.2009, 1 ♂ 1 ♀, ZM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, many ♂♂ ♀♀, IM. Strání, Obecnice hill (60), 2.vii.2001, 2 ♀♀, IM & PK; 9.viii.2001, 9 ♂♂ 5 ♀♀, PK; 21.ix.2001, 39 ♂♂ 43 ♀♀, IM; 23.v.2002, 296 ♂♂ 253 ♀♀, IM; 20.vii.2002, 1 ♂ 3 ♀♀, IM; 12.ix.2002, 41 ♂♂ 72 ♀♀, IM. Lopeník, Lopenické sedlo (64), 27.vi.2004, 2 ♂♂ 7 ♀♀, IM; 25.ix.2004, 1 ♀, IM; 3.ix.2005, 1 ♀, PK. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♀; 22.ix.2007, 1 ♂ 3 ♀♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 22.ix.2007, 1 ♂, IM. Vyškovec, Vyškovecké Bošačky (69), 27.vi.2004, 1 ♀, IM. Vyškovec, Pod Hřibovňou NM (70), 28.vi.2004, 1 ♂ 4 larvae; 8.ix.2005, 1 ♂; all IM. Radějov, Žerotín NM (73), 11.vii.1998, 1 ♀, IM; 9.viii.2002, 1 ♀, PK. Radějov, Holý vrch hill (74), 8.ix.1998, many ♂♂ ♀♀, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂ 2 ♀♀; 28.vii.2000, 1 ♀; 20.ix.2001, 1 ♀; all IM. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 1 ♀, IM & PK. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 3 ♂♂ 17 ♀♀, IM & PK. Hrubá Vrbka, football ground (82), 20.ix.2001, 1 ♀, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, several ♂♂ ♀♀, IM. Radějov, Veselka hill (85), 11.vii.1998, 3 ♂♂ 2 ♀♀, IM. Radějov, Kůtky NR (86), 11.vii.1998, 2 ♂♂ 3 ♀♀; 8.ix.1998, many ♂♂ ♀♀; all IM. Velká nad Veličkou, village (87), 19.vi.2000, 1 ♂ 1 ♀, PK; 9.ix.2000, 2 ♀♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 18.viii.2000, 2 ♀♀, PK; 9.–10.ix.2000, 3 ♂♂ 2 ♀♀, IM. Suchov,

Suchovské Mlýny (89), 23.vi.2004, 3 ♂♂ 3 ♀♀, IM; 18.viii.2004, 1 ♀, PK; 1.x.2004, 9 ♂♂ 7 ♀♀, IM; 27.vii.2005, 2 ♂♂ 2 ♀♀, IM; 1.ix.2005, 40 ♂♂ 39 ♀♀, IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 14 ♂♂ 11 ♀♀, IM; 16.viii.2004, 3 ♂♂ 12 ♀♀, PK; 1.x.2004, 46 ♂♂ 79 ♀♀, IM; 27.vii.2005, 2 ♂♂ 6 ♀♀, IM; 1.ix.2005, 186 ♂♂ 192 ♀♀, IM. Javorník, Nad Vápenkou NM (94), 7.ix.2002, 3 ♂♂ 4 ♀♀, IM. Javorník, loampit W of village (95), 7.ix.1998, 1 ♂ 1 ♀; 24.v.2002, 1 ♂ 4 ♀♀, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♀, IM. Javorník, Petruchovy Mlýny (97), 23.vi.2004, 95 ♂♂ 87 ♀♀; 2.ix.2004, 14 ♂♂ 34 ♀♀; 1.x.2004, 34 ♂♂ 35 ♀♀; 1.ix.2005, 33 ♂♂ 28 ♀♀; all IM. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 1 ♂, IM. Strání, Záhumenice NM (104), 2.vii.2001, 5 ♂♂ 3 ♀♀, IM; 9.viii.2001, 1 ♀, PK; 21.ix.2001, 23 ♂♂ 23 ♀♀, IM; 15.vi.2010, 2 ♂♂, MT, JM & PC.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in the south-western and central parts of the area but sporadic in the north-east; in dry meadows, pastures and ruderal sites, often locally abundant. **General distribution:** Western Palaearctic. **Host plants:** Poaceae (e.g. *Agrostis capillaris*, *Arrhenatherum elatius*, *Elytrigia repens* etc.). **Red List status:** –.

Neophilaenus infumatus (Haupt, 1917)

(NT)

Published records. LANG (1945a): Korytná, Lipiny forest (38); Suchá Loz, Studený vrch hill (57). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Hluk, Babí hora NM (36), 24.viii.2002, 1 ♂ 4 ♀♀, IM. Blatnička, Milejovské louky meadows (39), 11.vii.2009, 5 ♂♂ 4 ♀♀; 16.viii.2009, 1 ♂ 5 ♀♀; all PB. Horní Němčí, Drahy NR (48), 10.ix.1998, 1 ♀, IM. Strání, Obecnice hill (60), 2.vii.2001, 1 ♀, IM & PK; 20.vii.2002, 2 ♀♀, IM. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 2 ♀♀; 22.vi.2001, 1 ♀; all IM & PK. Hrubá Vrbka, football ground (82), 19.vi.2000, 1 ♀; 28.vii.2001, 1 ♀; both IM & PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 27.vii.2000, 2 ♂♂, IM. Javorník, Petruchovy Mlýny (97), 17.vii.2002, 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Quite uncommon, being restricted to xerothermic places in the south-western part of the area: in dry meadows, pastures and ruderal grassland, usually on sunny hillsides. **General distribution:** Southern and eastern central Europe, south-eastern Europe, Siberia and Mongolia. **Host plants:** Fine-leaved *Festuca* spp. (the local host is probably *F. rupicola*). **Red List status:** Near-threatened.

Neophilaenus lineatus (Linnaeus, 1758)

Published records. LANG (1945a): Březová, Kalábová NM (58). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Javorůvky NR (7), 2.vii.1999, 1 ♂; 11.ix.1999, many ♂♂ ♀♀; all IM. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 1 ♂, MH. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 3 ♂♂ 2 ♀♀, IM. Poteč, Ploščiny NR (12), 4.vii.1999, 1 ♂, IM; 13.ix.1999, 2 ♀♀, IM; 24.viii.2002, 1 ♀, PK; 17.viii.2006, 1 ♂, PK. Valašské Klobouky, Bílé potoky NR (13), 9.ix.1999, 1 ♂, IM; 14.viii.2006, 1 ♂, PK. Nedašov, village (15), 3.vii.1999, 1 ♀, IM. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 1 ♂ 3 ♀♀; 10.ix.1999, many ♂♂ ♀♀; 1.ix.2004, 1 ♀; 28.vii.2005, 1 ♂ 2 ♀♀; 6.ix.2005, 5 ♂♂ 6 ♀♀; all IM; 25.vi.2002, 2 ♂♂ 2 ♀♀; 16.viii.2006, 2 ♂♂ 2 ♀♀; all PK. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 2 ♂♂; 5.x.2004, 1 ♂; 28.vii.2005, 3 ♂♂; all IM. Blatnička, Milejovské louky meadows (39), 16.viii.2009, 1 ♂ 2 ♀♀, PB. Suchov, Kazivec brook valley (47), 9.ix.1998, many ♂♂ ♀♀, IM. Horní Němčí, Drahy NR (48), 21.ix.2001, 1 ♀, PK. Horní Němčí, Vinohrádky (49), 24.vii.–22.viii.2003, 1 ♀, PT, KR. Komňa, Lom Rasová NM (54), 5.vii.2001, 3 ♂♂ 2 ♀♀, IM. Březová, Kalábová NM (58), 4.vii.2001, 1 ♂ 2 ♀♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 2 ♂♂ 1 ♀; 10.ix.1998, many ♂♂ ♀♀; all IM. Strání,

Leafhoppers and planthoppers (Hemiptera: Auchenorrhyncha)

Obecnice hill (60), 2.vii.2001, 1 ♂, IM & PK; 9.viii.2001, 1 ♂, PK; 20.vii.2002, 1 ♀, IM. Lopeník, U Zvonice NM (63), 18.viii.2004, 1 ♀, PK; 25.ix.2004, 1 ♀, IM; 3.ix.2005, 1 ♀, PK. Lopeník, Lopenické sedlo (64), 25.ix.2004, 2 ♂♂ 1 ♀, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♀; 22.ix.2007, 2 ♂♂ 1 ♀; all IM. Vyskovec, Vyskovecké Bošačky (69), 24.vii.2005, 1 ♀, PK. Radějov, Žerotín NM (73), 11.vii.1998, 1 ♂, IM; 9.viii.2002, 1 ♂, PK. Kněždub, Kněždubský háj forest (75), 17.viii.2000, 1 ♀, PK. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 2 ♂♂, IM & PK; 8.ix.2000, 4 ♂♂ 2 ♀♀, PK. Radějov, Měsíční údolí valley (84), 20.viii.2002, 1 ♂, PK. Radějov, Kútky NR (86), 11.vii.1998, 1 ♀; 8.ix.1998, 1 ♀; both IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 3 ♂♂ 2 ♀♀; 9.–10.ix.2000, 1 ♀; all IM. Suchov, Suchovské Mlýny (89), 16.viii.2004, 1 ♂ 1 ♀, PK; 27.vii.2005, 1 ♂, IM. Suchov, Trnovský Mlýn (90), 1.ix.2005, 1 ♀, IM. Javorník, loampit W of village (95), 7.ix.1998, 1 ♂, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♀; 10.ix.2000, 1 ♂ 2 ♀♀; all IM. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 1 ♂ 1 ♀; 9.ix.1998, 1 ♀; all IM. Javorník, Machová NR (102), 9.vii.1998, several ♂♂ ♀♀, IM. Strání, Záhumenice NM (104), 9.viii.2001, 1 ♂, PK; 21.ix.2001, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in wet to mesic grassland and spring fens throughout the area. **General distribution:** Holarctic. **Host plants:** Various Poaceae, Cyperaceae and Juncaceae. **Red List status:** –.

Philaenus spumarius (Linnaeus, 1758)

Published records. LANG (1945a): Korytná, Lipiny forest (38); Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99); Suchá Loz, Studený vrch hill (57); Březová, Kalábová NM (58). HUBÁČEK (1979): Hluk, Kobylí hlava NM (35); Hluk, Hlucké louky meadows (37); Blatnička, Jasenová hill (40). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79). KMENT & MALENOVSKÝ (2008): Kněždub, Čertoryje NNR, Járkovec brook valley (77); Strání, Záhumenice NM (104).

Additional material examined. Petrůvka, U Petrůvky NM (3), 6.viii.1999, 4 ♀♀, PK. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 3 ♀♀, IM. Valašské Klobouky, U Rybníků (6), 10.ix.1999, 3 ♀♀, IM. Valašské Klobouky, Javorůvky NR (7), 2.vii.1999, 1 ♂, IM; 11.ix.1999, 2 ♂♂ 3 ♀♀, IM; 24.viii.2002, 2 ♂♂ 1 ♀, PK. Valašské Klobouky, Dobšená NM (8), 2.vii.1999, 3 ♂♂; 10.ix.1999, 4 ♂♂ 4 ♀♀; all IM. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 15 ♂♂ 6 ♀♀, MH; 9.ix.1999, 1 ♂ 4 ♀♀, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 1 ♀, IM. Valašské Klobouky, Královec hill (11), 10.ix.1999, 3 ♀♀, IM. Poteč, Ploščíny NR (12), 13.ix.1999, 5 ♂♂ 5 ♀♀, IM; 1.vi.2002, 1 ♂, IM; 24.viii.2002, 16 ♂♂ 22 ♀♀, PK; 17.viii.2006, 1 ♂ 4 ♀♀, PK. Valašské Klobouky, Bílé potoky NR (13), 30.vi.1999, 1 ♀, PK; 9.ix.1999, 2 ♂♂ 2 ♀♀, IM; 23.viii.2002, 1 ♂ 1 ♀, PK; 16.vi.2006, 1 ♂, IM; 11.vii.2006, 2 ♂♂ 4 ♀♀, IM; 14.viii.2006, 2 ♂♂ 2 ♀♀, PK. Brumov, Uhličky (14), 30.vi.2004, 20 ♂♂ 7 ♀♀; 1.ix.2004, 2 ♂♂ 4 ♀♀; 5.x.2004, 2 ♂♂ 4 ♀♀; all IM; 28.vii.2005, 2 ♂♂ 7 ♀♀; 4.ix.2005, 11 ♀♀; all PK. Nedašov, Jalovcová stráň NR (17), 10.ix.1999, many ♂♂ ♀♀; 30.vi.2004, 5 ♂♂ 3 ♀♀; 1.ix.2004, 5 ♂♂ 9 ♀♀; 5.x.2004, 1 ♂ 1 ♀; 28.vii.2005, 9 ♂♂ 12 ♀♀; 6.ix.2005, 6 ♂♂ 14 ♀♀; all IM; 25.vi.2002, 3 ♀♀; 16.viii.2006, 1 ♂ 3 ♀♀; all PK. Nedašov, Kaňoury NM (18), 12.vii.2006, 1 ♂ 4 ♀♀, IM; 16.viii.2006, 6 ♂♂ 3 ♀♀, PK. Brumov, Kloboucká street (24), 30.vi.2004, 3 ♂♂ 1 ♀; 2.ix.2004, 5 ♂♂ 5 ♀♀; 5.x.2004, 2 ♀♀; all IM; 28.vii.2005, 6 ♂♂ 6 ♀♀; 4.ix.2005, 1 ♂ 5 ♀♀; all PK. Bylnice, Na Stráži (25), 16.vi.2006, 3 ♀♀, IM; 11.vii.2006, 3 ♂♂, IM; 18.viii.2006, 2 ♂♂ 3 ♀♀, PK. Bylnice, railway station environs (27), 1.vii.1999, 3 ♂♂ 2 ♀♀, MH & PK; 11.ix.1999, 4 ♂♂ 1 ♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 1.vii.1999, 2 ♂♂ 2 ♀♀, PK; 12.ix.1999, many ♂♂ ♀♀, IM. Nedašov, Pod Cigánem NM (30), 10.ix.1999, 2 ♀♀; 30.vi.2004, 4 ♂♂ 6 ♀♀; 1.ix.2004, 22 ♂♂ 41 ♀♀; 5.x.2004, 3 ♂♂ 20 ♀♀; 28.vii.2005, 50 ♂♂ 58 ♀♀; 6.ix.2005, 19 ♂♂ 22 ♀♀; all IM. Sidonie, Vlárský průmysk pass (33), 12.ix.1999, 1 ♀, IM. Lipov (34), 28.vii.2008, many ♂♂ ♀♀, ZM. Hluk, Kobylí hlava NM (35), 24.viii.2002, 2 ♂♂, IM. Hluk, Babí hora NM (36), 24.viii.2002, 2 ♂♂ 1 ♀, IM. Blatnička, Milejovské louky meadows (39), 11.vii.2009, 2 ♂♂ 5 ♀♀; 16.viii.2009, 4 ♂♂ 1 ♀; all PB. Louka, Hloží NR (42), 7.ix.1998, 1 ♂, IM. Suchov, Búrová NNM (43), 13.vii.1998, 1 ♂, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, many ♂♂ ♀♀, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, many ♂♂ ♀♀, IM; 30.vi.2001, 27 ♂♂ 22 ♀♀, IM & PK; 13.viii.2001, 12 ♂♂ 27 ♀♀, PK; 21.ix.2001, 4 ♂♂ 11 ♀♀, PK; 23.v.2002, 2 larvae, IM; 21.vii.2002, 90 ♂♂ 101 ♀♀, IM; 10.ix.2002, 12 ♂♂ 41 ♀♀, IM. Horní Němčí, Vinohrádky (49), 30.vi.2001, 1 ♀, IM; 13.viii.2001, 2 ♂♂ 1 ♀, PK; 21.ix.2001, 1 ♀, PK; 20.vii.2002, 4 ♂♂ 1 ♀, IM; 10.ix.2002, 2 ♂♂ 2

♀♀, IM. Komňa, Lom Rasová NM (54), 5.vii.2001, 1 ♂, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♀, IM & PK. Korytná, Lubná pond environs (56), 5.vii.2001, 1 ♀, IM. Březová, Kalábová NM (58), 4.vii.2001, 1 ♂, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♀; 10.ix.1998, many ♂♂ ♀♀; all IM. Strání, Obecnice hill (60), 21.ix.2001, 1 ♂ 3 ♀♀, IM; 20.vii.2002, 4 ♂♂ 7 ♀♀, IM; 12.ix.2002, 1 ♂ 5 ♀♀, IM. Lopeník, U Zvonice NM (63), 27.vi.2004, 5 ♂♂ 3 ♀♀, IM; 18.viii.2004, 36 ♂♂ 32 ♀♀, PK; 25.ix.2004, 3 ♂♂ 17 ♀♀, IM; 24.vii.2005, 14 ♂♂ 10 ♀♀, IM; 3.ix.2005, 6 ♂♂ 10 ♀♀, PK. Lopeník, Lopenické sedlo (64), 24.vii.2005, 2 ♂♂ 3 ♀♀, IM; 3.ix.2005, 1 ♀, PK. Lopeník, Mikulčín vrch hill (65), 25.ix.2004, 1 ♂ 1 ♀; 24.vii.2005, 1 ♂ 1 ♀; all IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 6 ♂♂; 22.ix.2007, 1 ♂ 2 ♀♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 4 ♂♂ 2 ♀♀; 8.viii.2007, 4 ♂♂ 1 ♀; 22.ix.2007, 1 ♂ 1 ♀; all IM. Vyškovec, Vyškovcecké Bošačky (69), 27.vi.2004, 20 ♂♂ 22 ♀♀, IM; 19.viii.2004, 10 ♂♂ 10 ♀♀, PK; 25.ix.2004, 5 ♂♂ 18 ♀♀, PK; 24.vii.2005, 20 ♂♂ 22 ♀♀, PK; 3.ix.2005, 7 ♂♂ 12 ♀♀, PK. Vyškovec, Pod Hribovňou NM (70), 28.vi.2004, 2 ♂♂ 2 ♀♀, IM; 19.viii.2004, 15 ♂♂ 14 ♀♀, PK; 25.ix.2004, 1 ♂ 1 ♀, PK; 24.vii.2005, 5 ♂♂ 7 ♀♀, PK; 8.ix.2005, 9 ♂♂ 13 ♀♀, IM. Radějov, Žerotín NM (73), 11.vii.1998, several ♂♂ ♀♀, IM; 9.viii.2002, 3 ♂♂ 1 ♀, PK. Radějov, Holý vrch hill (74), 8.ix.1998, 1 ♂ 2 ♀♀, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂ 1 ♀; 28.vii.2000, 3 ♂♂ 1 ♀; all IM; 17.viii.2000, 2 ♀♀, PK; 20.ix.2001, 2 ♀♀, IM. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 2 ♀♀; 27.vii.2000, 44 ♂♂ 35 ♀♀; all IM & PK. Hrubá Vrbka, football ground (82), 16.viii.2000, 2 ♀♀, PK. Radějov, Měsíční údolí valley (84), 20.viii.2002, 2 ♂♂ 1 ♀, PK. Radějov, Kútky NR (86), 11.vii.1998, 1 ♀; 8.ix.1998, 1 ♂, IM. Velká nad Veličkou, village (87), 19.vi.2000, 1 ♀, PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 3 ♂♂ 2 ♀♀; 18.viii.2000, 2 ♂♂ 3 ♀♀, PK; 9.–10.ix.2000, 2 ♂♂ 1 ♀; all IM. Suchov, Suchovské Mlýny (89), 23.vi.2004, 14 ♂♂ 5 ♀♀, IM; 16.viii.2004, 39 ♂♂ 52 ♀♀, PK; 1.x.2004, 15 ♂♂ 60 ♀♀, IM; 27.vii.2005, 39 ♂♂ 31 ♀♀ 1 larva, IM; 1.ix.2005, 48 ♂♂ 83 ♀♀, IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 2 ♂♂, IM; 16.viii.2004, 34 ♂♂ 27 ♀♀, PK; 1.x.2004, 2 ♂♂ 21 ♀♀, IM; 27.vii.2005, 51 ♂♂ 51 ♀♀, IM; 1.ix.2005, 40 ♂♂ 71 ♀♀, IM. Javorník, village (92), 8.viii.2001, 2 ♂♂, PK. Javorník, Nad Vápenkou NM (94), 7.ix.2002, 1 ♂ 4 ♀♀, IM. Javorník, loampit W of village (95), 7.ix.1998, 3 ♀♀, IM. Javorník, Jazevečí NNR (96), 19.vi.2000, 4 ♂♂ 4 ♀♀; 10.ix.2000, 3 ♂♂ 1 ♀; all IM. Javorník, Petruchovy Mlýny (97), 23.vi.2004, 8 ♂♂ 2 ♀♀; 2.ix.2004, 55 ♂♂ 71 ♀♀; 1.x.2004, 13 ♂♂ 25 ♀♀; 27.vii.2005, 8 ♂♂ 9 ♀♀; 1.ix.2005, 22 ♂♂ 32 ♀♀; all IM. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 1 ♂ 2 ♀♀; 9.ix.1998, several ♂♂ ♀♀; all IM. Javorník, Machová NR (102), 9.vii.1998, several ♂♂ ♀♀, IM. Strání, Záhumenice NM (104), 2.vii.2001, 88 ♂♂ 81 ♀♀, IM; 9.viii.2001, 59 ♂♂ 75 ♀♀, PK; 21.ix.2001, 4 ♂♂ 13 ♀♀, IM. Strání, Javorina NNR (106), 12.vii.1998, many ♂♂ ♀♀, IM; 4.vii.2001, 2 ♂♂ 1 ♀, IM & PK.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area from the lowest to the highest elevations; eurytopic in various grassland habitats, ruderal sites and open forests. **General distribution:** Palearctic; introduced into North America and Australia. **Host plants:** Widely polyphagous, usually on various dicotyledonous herbs. **Red List status:** –.

Family MEMBRACIDAE

Centrotus cornutus (Linnaeus, 1758)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Brumovská street (5), 19.v.1999, 1 ♂, IM. Valašské Klobouky, Javorůvky NR (7), 22.v.1999, 1 ♀, IM. Valašské Klobouky, Brumovka brook valley (9), 19.v.1999, 1 ♀, IM; 30.vi.1999, 1 ♀, MH. Poteč, Ploštiny NR (12), 4.vii.1999, 2 ♀♀; 1.vi.2002, 1 ♀; all IM. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 1 ♀; 28.v.2005, 1 larva; 12.vii.2006, 1 ♀; all IM. Nedašov, Kaňoury NM (18), 17.vi.2006, 1 larva, IM. Bylnice, Na Stráži (25), 16.vi.2006, 1 ♀, IM. Horní Němčí, Drahy NR (48), 15.v.1998, several ♂♂ ♀♀; 30.vi.2001, 1 ♀; all IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 14.v.1998, 2 ♀♀, IM. Suchov, Suchovské Mlýny (89), 6.v.2000, 1 ♂, IM. Javorník, Jazevečí NNR (96), 6.v.2000, 1 ♀, IM. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 1 ♀, IM. Javorník, Machová NR (102), 14.v.1998, several ♂♂ ♀♀, IM; 4.vi.2010, 1 ♂; 14.vi.2010, 1 ♂; both MT, JM & PC.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common throughout the area, e.g. along forest margins and roads and around shrubs scattered in meadows and pastures. **General distribution:** Palaearctic. **Host plants:** Polyphagous; larvae on stout herbs (e.g. *Vincetoxicum*, *Cirsium*, *Carduus*, *Urtica*), adults also on low-growing trees and shrubs. **Red List status:** –.

***Gargara genistae* (Fabricius, 1775)**

Material examined. Lipov (34), 10.vii.2009, 1 ♀, ZM. Horní Němčí, Drahy NR (48), 10.ix.1998, 1 ♂ 5 ♀♀, IM; 13.viii.2001, 1 ♀, PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 2 ♂♂; 27.vii.2000, 4 ♂♂ 1 ♀; 9.–10.ix.2000, 2 ♀♀; all IM. Javorník, loampit W of village (95), 10.vii.2009, 5 ♂♂ 1 ♀, ZM.

Distribution and frequency in the Bílé Karpaty PLA: Found only in dry grasslands in the south-western part of the area: quite rare and local. **General distribution:** Holarctic, Ethiopian and Oriental. **Host plants:** Woody species of Fabaceae (e.g. *Cytisus*, *Ononis*, *Genista*, *Colutea*, *Coronilla*, *Glycyrrhiza*, *Caragana* etc., rarely also on *Trifolium*, *Melilotus* and *Medicago*). **Red List status:** –.

***Stictocephala bisonia* Kopp et Yonke, 1977**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Radějovka brook valley (79). MALENOVSKÝ & LAUTERER (2006b): Nedašov, Jalovcová stráň NR (17); Hluk, Babí hora NM (36); Suchov, Kazivec brook valley (47); Strání, Hrnčárky NM and Žabka reservoir surroundings (59); Kněždub, Čertoryje NNR (77, 79); Hrubá Vrbka, football ground (82); Velká nad Veličkou, village (87). LAUTERER *et al.* (2011): Slavičín, town (22); Blatnička, Milejovské louky meadows (39); Starý Hrozenkov, Skalka quarry (67).

Additional material examined. Bylnice, railway station environs (27), 11.ix.1999, 1 ♂ 1 ♀, IM. Horní Němčí, village (44), 21.ix.2001, 1 ♂ 1 ♀, PK. Velká nad Veličkou, village (87), 9.ix.2000, 1 ♂ 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, occurring in relatively warm places, usually along brooks and rivers, in villages or along scrub on sunny hillsides. **General distribution:** Nearctic, introduced into Europe, central Asia and Pacific. **Host plants:** Polyphagous, usually on herbaceous plants (e.g. *Solidago* spp., *Medicago sativa*) and woody species of Rosaceae and Salicaceae. **Red List status:** –.

Comments. *Stictocephala bisonia* is an allochthonous, invasive species in the Czech Republic. Currently, it is widespread in southern, central and northern Moravia and in central and north-eastern Bohemia (LAUTERER *et al.* 2011). The first specimen in the Bílé Karpaty PLA was collected in 1998 (MALENOVSKÝ & LAUTERER 2006b).

Family CICADELLIDAE

***Acericerus heydenii* (Kirschbaum, 1868)**

Material examined. Lopeník, U Zvonice NM (63), 25.ix.2004, 1 ♂ 2 ♀♀, IM. Lopeník, Mikulčín vrch hill (65), 25.ix.2004, 1 ♂, IM. Radějov, Holý vrch hill (74), 8.ix.1998, 1 ♂, IM. Nová Lhota, Vápenky, Porážky NNR (99), 28.x.2011, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Known from forest margins on hills in the central and south-western parts of the area. **General distribution:** European. **Host plants:** *Acer* spp. (mainly *A. pseudoplatanus*). **Red List status:** –.

***Acericerus ribauti* Nickel et Remane, 2002**

Material examined. Horní Němčí, village (44), 13.viii.2001, 1 ♂ 1 ♀, PK. Radějov, Holý vrch hill (74), 8.ix.1998, 1 ♂, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂ 1 ♀, IM. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 2 ♀♀, IM & PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 2 ♂♂ 3 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Collected along forest margins in the south-western part of the area. **General distribution:** European. **Host plants:** *Acer* spp. (mainly *A. campestre*). **Red List status:** –.

***Acericerus vittifrons* (Kirschbaum, 1868)**

Material examined. Nedašov, Kaňoury NM (18), 16.viii.2006, 1 ♂ 1 ♀, PK. Suchov, Kazivec brook valley (47), 9.ix.1998, 1 ♂ 1 ♀, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂ 1 ♀, IM. Javorník, Machová NR (102), 9.vii.1998, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Probably scattered along forest margins throughout the area but rarely collected. **General distribution:** European. **Host plants:** *Acer* spp. (mainly *A. campestre*). **Red List status:** –.

***Adarrus multinotatus* (Boheman, 1847)**

Published records. LANG (1945a): Korytná, Lipiny forest (38); Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99); Suchá Loz, Studený vrch hill (57). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 24 ♂♂ 5 ♀♀, IM. Valašské Klobouky, Dobšená NM (8), 2.vii.1999, 1 ♂ 1 ♀; 10.ix.1999, 5 ♂♂ 4 ♀♀; all IM. Valašské Klobouky, Brumovka brook valley (9), 9.ix.1999, 30 ♂♂ 3 ♀♀, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 1 ♂, IM. Poteč, Ploštiny NR (12), 4.vii.1999, 1 ♀, IM; 13.ix.1999, 19 ♂♂ 5 ♀♀, IM; 1.vi.2002, 101 ♂♂ 45 ♀♀ 14 larvae, IM; 24.viii.2002, 193 ♂♂ 58 ♀♀ 19 larvae, PK; 17.viii.2006, 4 ♂♂ 2 ♀♀, PK. Valašské Klobouky, Bílé potoky NR (13), 9.ix.1999, 7 ♂♂ 3 ♀♀, IM; 23.viii.2002, 1 ♂, PK; 16.vi.2006, 15 ♂♂ 5 ♀♀, IM; 11.vii.2006, 12 ♂♂ 11 ♀♀, IM; 14.viii.2006, 5 ♂♂ 1 ♀, PK. Brumov, Uhličky (14), 28.vii.2005, 1 ♂; 4.ix.2005, 1 ♂; both PK. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 5 ♂♂ 2 ♀♀; 10.ix.1999, 4 ♂♂ 2 ♀♀; 30.vi.2004, 2 ♀♀ 1 larva; 1.ix.2004, 8 ♂♂ 9 ♀♀ 2 larvae; 5.x.2004, 2 ♂♂ 4 ♀♀; 28.v.2005, 2 ♂♂ 1 larva; 28.vii.2005, 3 ♀♀; 6.ix.2005, 33 ♂♂ 15 ♀♀ 3 larvae; 17.vi.2006, 2 ♂♂; 12.vii.2006, 1 ♂; all IM; 16.viii.2006, 2 ♂♂, PK. Nedašov, Kaňoury NM (18), 17.vi.2006, 4 ♂♂ 2 ♀♀, IM; 12.vii.2006, 3 ♂♂ 2 ♀♀, IM; 16.viii.2006, 11 ♂♂ 2 ♀♀, PK. Brumov, Kloboucká street (24), 30.vi.2004, 2 ♂♂ 1 ♀ 1 larva; 2.ix.2004, 33 ♂♂ 23 ♀♀ 16 larvae; 5.x.2004, many ♂♂ ♀♀; 28.v.2005, 16 ♂♂ 1 larva; all IM; 28.vii.2005, 6 ♀♀ 5 larvae; 4.ix.2005, 240 ♂♂ 130 ♀♀ 8 larvae, PK; 4.v.–3.vi.2005, 1 ♂ 1 ♀ 3 larvae; 4.vii.–6.viii.2005, 5 ♂♂ 1 ♀ 5 larvae; 6.viii.–7.ix.2005, 6 ♂♂ 5 ♀♀ 16 larvae; 7.ix.–6.x.2005, 2 ♂♂ 4 ♀♀; all PT, KR. Bylnice, Na Stráži (25), 16.vi.2006, 10 ♂♂ 2 ♀♀, IM; 11.vii.2006, 3 ♂♂ 6 ♀♀, IM; 18.viii.2006, 8 ♂♂ 2 ♀♀, PK. Bylnice, Bylničky (26), 24.vi.1982, 1 ♂ 3 ♀♀, PL. Bylnice, Lazy NR and surrounding meadows on N slopes of Plánava hill (28), 12.ix.1999, 14 ♂♂ 5 ♀♀, IM. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 2 ♂♂ 1 ♀; 5.x.2004, 1 ♂ 3 ♀♀; 6.ix.2005, 4 ♂♂; all IM. Hluk, Kobylí hlava NM (35), 24.viii.2002, 6 ♂♂ 3 ♀♀, IM. Hluk, Babí hora NM (36), 24.viii.2002, many ♂♂ ♀♀,

IM. Blatnička, Milejovské louky meadows (39), 24.v.2009, 1 ♀, PB. Louka, Hloží NR (42), 7.ix.1998, 1 ♂ 2 ♀♀, IM. Horní Němčí, Hornoněmčanský háj forest (45), 7.vii.1985, 3 ♀♀, PL. Korytná, Březí (46), 5.vii.2001, 11 ♂♂ 5 ♀♀, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 4 ♂♂, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, several ♂♂ ♀♀, IM; 30.vi.2001, 23 ♂♂ 8 ♀♀, IM & PK; 13.viii.2001, 5 ♂♂ 5 ♀♀ 13 larvae, PK; 21.ix.2001, 7 ♂♂ 6 ♀♀, PK; 23.v.2002, 5 ♂♂ 2 larvae, IM; 21.vii.2002, 13 ♂♂ 11 ♀♀ 36 larvae, IM; 10.ix.2002, 5 ♂♂ 8 ♀♀, IM; 22.v.–22.vi.2003, 1 ♀ 3 larvae, PT, KR; 22.vi.–24.vii.2003, 1 ♀ 1 larva, PT, KR; 24.vii.–22.viii.2003, 1 ♂ 4 ♀♀ 2 larvae, PT, KR; 22.viii.–27.ix.2003, 3 ♂♂ 4 ♀♀, PT, KR. Horní Němčí, Vinohrádky (49), 30.vi.2001, 1 ♀, IM. Březová, Kalábová NM (58), 4.vii.2001, 2 ♀♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, many ♂♂ ♀♀, IM. Strání, Obecnice hill (60), 2.vii.2001, 4 ♂♂ 1 ♀ 2 larvae, IM & PK; 9.viii.2001, 1 ♀, PK; 12.ix.2002, 1 ♂, IM. Strání, Důbrava hill (60), 7.vii.1980, 1 ♂, PL. Lopeník, U Zvonice NM (63), 25.ix.2004, 1 ♂ 1 ♀, IM; 3.ix.2005, 2 larvae, PK. Lopeník, Lopenické sedlo (64), 27.vi.2004, 1 ♀, IM. Výškovce, Výškovce Bošačky (69), 27.vi.2004, 1 ♂, IM; 25.ix.2004, 1 ♂, PK. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 2 ♀♀; 28.vii.2000, 1 ♂ 1 ♀; all IM; 22.vi.2001, 1 ♀, IM & PK; 20.ix.2001, 1 ♂, IM. Kněždub, Čertoryje NNR (77, 79), 19.vi.1980, 2 ♂♂ 1 ♀, PL. Malá Vrbka, Výzkum hill (80), 22.vi.2001, 2 ♀♀, IM & PK. Radějov, Měsíční údolí valley (84), 8.ix.1998, 9 ♂♂ 4 ♀♀, IM; 20.viii.2002, 1 ♂, PK. Radějov, Kútky NR (86), 8.ix.1998, 6 ♂♂ 2 ♀♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 1 ♂ 1 ♀, IM; 18.viii.2000, 1 ♂, PK; 9.–10.ix.2000, many ♂♂ ♀♀, IM. Suchov, Suchovské Mlýny (89), 23.vi.2004, 1 ♀, IM; 18.viii.2004, 8 ♂♂ 8 ♀♀ 5 larvae, PK; 1.x.2004, 39 ♂♂ 46 ♀♀, IM; 26.v.2005, 3 ♂♂ 13 larvae, IM; 27.vii.2005, 1 ♂ 1 ♀ 1 larva, IM; 1.ix.2005, 38 ♂♂ 28 ♀♀, IM. Suchov, Tmiovský Mlýn (90), 23.vi.2004, 6 ♂♂ 2 ♀♀ 1 larva, IM; 16.viii.2004, 2 ♂♂ 2 larvae, PK; 1.x.2004, 4 ♂♂ 6 ♀♀, IM; 27.vii.2005, 2 ♀♀ 1 larva, IM; 1.ix.2005, 22 ♂♂ 5 ♀♀ 1 larva, IM. Javorník, Nad Vápenkou NM (94), 7.ix.2002, 10 ♂♂ 2 ♀♀, IM. Javorník, loampit W of village (95), 7.ix.1998, many ♂♂ ♀♀; 24.v.2002, 1 ♂; all IM. Javorník, Jazevěčí NNR (96), 19.vi.2000, 16 ♂♂ 11 ♀♀; 10.ix.2000, 6 ♂♂ 2 ♀♀; all IM. Javorník, Petruchovy Mlýny (97), 23.vi.2004, 2 ♂♂ 3 ♀♀ 1 larva; 2.ix.2004, 18 ♂♂ 8 ♀♀ 3 larvae; 1.x.2004, 5 ♂♂ 4 ♀♀; 26.v.2005, 4 larvae; 27.vii.2005, 1 ♂ 1 ♀; 1.ix.2005, 2 ♂♂ 1 ♀; all IM. Nová Lhota, Fojtické Mlýny (98), 7.vii.1980, 2 ♂♂ 5 ♀♀, PL. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 2 ♂♂; 9.ix.1998, 2 ♂♂ 4 ♀♀; all IM. Javorník, Machová NR (102), 9.vii.1998, several ♂♂ ♀♀, IM. Javorník, Výzkum hill (103), 10.vi.1982, 2 ♂♂ 1 ♀, PL. Strání, Záhumenice NM (104), 2.vii.2001, 9 ♂♂ 4 ♀♀, PK; 9.viii.2001, 1 ♂, PK; 21.ix.2001, 11 ♂♂ 1 ♀, IM. Strání, Javorina NNR (106), 4.vii.2001, 2 ♂♂ 7 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area in dry grassland, meadows, pastures, and along forest margins; present even at the highest elevations in the meadow on the top of Mt Velká Javořina (ca. 950 m). **General distribution:** Western Palaearctic. **Host plant:** *Brachypodium pinnatum*. **Red List status:** –.

Agallia brachyptera (Boheman, 1847)

Published records. LANG (1945a): Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99); Suchá Loz, Studený vrch hill (57).

Additional material examined. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 1 ♀, IM. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 1 larva, IM. Brumov, Uhlíčky (14), 30.vi.2004, 1 larva, IM; 4.vii.–6.viii.2005, 1 ♂, PT, KR. Brumov, Kloboucká street (24), 3.vi.–4.vii.2005, 1 larva; 4.vii.–6.viii.2005, 1 ♀; both PT, KR. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 1 ♂ 8 ♀♀; 5.x.2004, 2 ♀♀; 28.vii.2005, 1 ♀; 6.ix.2005, 2 ♀♀; all IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 1 ♀, IM. Horní Němčí, Drahy NR (48), 22.vi.–24.vii.2003, 1 ♀, PT, KR. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 1 ♀, IM. Strání, Obecnice hill (60), 23.v.2002, 2 larvae, IM & PK. Lopeník, U Zvonice NM (63), 20.v.–25.vi.2005, 2 larvae, PT, KR; 26.vi.–26.vii.2005, 3 ♂♂ 7 larvae, PT, KR; 24.vii.2005, 2 ♂♂, IM; 26.vii.–26.viii.2005, 5 ♂♂ 3 ♀♀, PT, KR; 3.ix.2005, 1 ♀, PK. Lopeník, Lopenické sedlo (64), 26.vi.–26.vii.2005, 2 ♂♂ 1 larva; 26.vii.–26.viii.2005, 1 ♂; all PT, KR. Starý Hrozenkov, Skalka quarry (67), 22.ix.2007, 1 ♀, IM. Výškovce, Výškovce Bošačky (69), 3.ix.2005, 1 ♀, PK. Výškovce, Pod Hřibovňou NM (70), 24.vii.2005, 2 ♂♂ 3 ♀♀, PK; 8.ix.2005, 1 ♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 1 ♂, IM; 18.viii.2000,

1 ♀, PK. Suchov, Trnovský Mlýn (90), 4.vi.–4.vii.2005, 1 larva; 4.vii.–6.viii.2005, 1 ♂; both PT, KR. Javorník, Jazevčí NNR (96), 10.ix.2000, 1 ♀, IM. Javorník, Petruchovy Mlýny (97), 7.ix.2002, 1 ♀, IM; 17.vi.–19.vii.2003, 1 larva, PT, KR. Strání, Záhumenice NM (104), 20.vii.2002, 5 ♂♂, IM; 24.vii.–22.viii.2003, 1 ♀, PT, KR. Strání, Javorina NNR (106), 29.x.2011, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in meadows and pastures throughout the area. **General distribution:** Western Palaearctic. **Host plants:** Probably polyphagous on Asteraceae and Fabaceae. **Red List status:** –.

Aguriahana stellulata (Burmeister, 1841)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Valašské Klobouky, Brumovská street (5), 13.ix.1999, LT, 1 ♂, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 1 ♀, IM. Horní Němčí, village (44), 13.viii.2001, 1 ♀, PK. Horní Němčí, Drahy NR (48), 10.ix.1998, 3 ♀♀, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 22.ix.2007, 1 ♀, IM. Radějov, Holý vrch hill (74), 4.vii.1977, 1 ♂ 1 ♀, LP. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 5 ♀♀, IM. Javorník, village (92), 8.viii.2001, 1 ♀, PK. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area but usually recorded in low numbers of specimens; along forest margins, in orchards and on solitary trees in villages. **General distribution:** Eurosiberian. **Host plants:** Polyphagous on deciduous trees (e.g. *Tilia cordata*, *Prunus avium*, *P. spinosa*, *Populus nigra*, *Betula pendula*, *Acer* spp.). **Red List status:** –.

Alebra albostriella (Fallén, 1826)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 5 ♂♂ 8 ♀♀, IM. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 1 ♂, IM. Nedašov, Kaňoury NM (18), 12.vii.2006, 3 ♂♂ 1 ♀, IM; 16.viii.2006, 2 ♀♀, PK. Luhačovice, Luhačovická dolina valley (21), 6.viii.1980, 2 ♂♂ 1 ♀, LP. Rokytnice, Bukovina hill (23), 21.viii.1984, 1 ♀, PL. Bylnice, Na Stráži (25), 11.vii.2006, 1 ♂, IM. Bylnice, Bylničky (26), 24.vi.1982, 1 ♂, PL. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 1.vii.1999, 1 ♀, PK. Boršice u Blatnice, Boršický potok brook valley (41), 16.viii.1984, 2 ♀♀, PL. Korytná, Březí (46), 5.vii.2001, 6 ♂♂ 7 ♀♀, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 9 ♂♂ 14 ♀♀, IM. Komňa, Nový Dvůr (53), 21.viii.1984, 1 ♀, PL. Komňa, Lom Rasová NM (54), 5.vii.2001, 1 ♂, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 5 ♂♂, IM & PK. Korytná, Lubná pond environs (56), 5.vii.2001, 1 ♀, IM. Březová, Kalábová NM (58), 4.vii.2001, 1 ♂, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♂ 1 ♀, IM. Radějov, Holý vrch hill (74), 4.vii.1977, 1 ♂, 1 ♀, LP. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 6 ♂♂ 4 ♀♀; 28.vii.2000, 1 ♀; all IM; 22.vi.2001, 1 ♂, IM & PK. Radějov, Lučina (76), 14.vii.1998, 5 ♀♀, IM. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 1 ♂, IM & PK. Radějov, Měsíční údolí valley (84), 20.viii.2002, 4 ♀♀, PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 1 ♂, IM. Javorník, village (92), 8.viii.2001, 1 ♀, PK. Javorník, Jazevčí NNR (96), 19.vi.2000, 2 ♂♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area at sunny forest margins and on solitary oaks scattered in grassland; locally also on alder trees and shrubs in the vicinity of brooks and springs. **General distribution:** European. **Host plants:** *Quercus robur*, *Alnus glutinosa*, *A. incana*. **Red List status:** –.

Alebra coryli Le Quesne, 1976

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Petrůvka, U Petrůvky NM (3), 6.viii.1999, 3 ♀♀, PK. Valašské Klobouky, Dobšená NM (8), 2.vii.1999, 1 ♀, IM. Poteč, Ploščiny NR (12), 17.viii.2006, 1 ♀, PK. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 2 ♀♀, IM; 14.viii.2006, 2 ♂♂ 2 ♀♀, PK. Komňa, Nový Dvůr (53), 21.viii.1984, 4 ♂♂ 1 ♀, PL. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 2 ♂♂, IM. Malá Vrbka, Výzkum hill (80), 19.vi.2000, 2 ♂♂ 5 ♀♀, IM & PK. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♀, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 11 ♂♂ 12 ♀♀, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area and quite common at forest margins and along roads. **General distribution:** European. **Host plants:** *Corylus* spp. **Red List status:** –.

Alebra neglecta Wagner, 1940

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 3 ♂♂ 4 ♀♀, IM. Bylnice, Bylničky (26), 24.vi.1982, 57 ♂♂ 2 ♀♀, PL. Horní Němčí, Hornoněmčanský háj forest (45), 7.vii.1980, 1 ♂, PL. Horní Němčí, Drahy NR (48), 30.vi.2001, 4 ♂♂ 2 ♀♀, IM. Komňa, Nový Dvůr (53), 21.viii.1984, 1 ♂, PL. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♂, IM & PK. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♂, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 18 ♂♂, IM. Nová Lhota, Fojtické Mlýny (98), 7.vii.1980, 1 ♂, PL.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area and locally common at forest margins. **General distribution:** Eurosiberian. **Host plants:** *Carpinus betulus*, *Prunus padus*, *Crataegus* spp. **Red List status:** –.

Alebra viridis (Rey, 1824)

Material examined. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 2 ♀♀, IM. Nedašov, Jalovcová stráň NR (17), 12.vii.2006, 1 ♂, IM. Nedašov, Kaňoury NM (18), 12.vii.2006, 4 ♀♀, IM; 16.viii.2006, 2 ♀♀, PK. Bylnice, Bylničky (26), 24.vi.1982, 1 ♂, PL. Hluk, Kobylí hlava NM (35), 24.viii.2002, 1 ♂, IM. Korytná, Březí (46), 5.vii.2001, 2 ♂♂ 3 ♀♀, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 1 ♀, IM. Komňa, Nový Dvůr (53), 21.viii.1984, 1 ♀, PL. Březová, Kalábová NM (58), 4.vii.2001, 1 ♀, IM. Lopeník, U Zvonice NM (63), 25.ix.2004, 1 ♀, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♀, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♂, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂, IM. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 1 ♀, IM & PK. Radějov, Kútky NR (86), 11.vii.1998, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common on solitary oaks and along forest margins throughout the area, although usually recorded in low numbers. **General distribution:** European. **Host plant:** *Quercus petraea*. **Red List status:** –.

Alebra wahlbergi (Boheman, 1845)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Dobšená NM (8), 2.vii.1999, 1 ♀, IM. Poteč, Ploščiny NR (12), 13.ix.1999, 3 ♀♀, IM. Nedašov, Kaňoury NM (18), 12.vii.2006, 6 ♂♂ 14 ♀♀, IM; 16.viii.2006, 1 ♂ 11

♀♀, PK. Luhačovice, Luhačovická dolina valley (21), 6.viii.1980, 1 ♂, LP. Rokytnice, Bukovina hill (23), 21.viii.1984, 1 ♂ 3 ♀♀, PL. Bylnice, Na Stráži (25), 11.vii.2006, 1 ♂ 4 ♀♀, IM. Bylnice, railway station environs (27), 1.vii.1999, 1 ♀, MH & PK. Bylnice, Bylničky (26), 24.vi.1982, 6 ♂♂ many ♀♀, PL. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 2 ♀♀, IM. Nedašov, Na Salaši (29), 3.vii.1999, 1 ♂ 2 ♀♀, PK. Horní Němčí, village (44), 13.viii.2001, 1 ♀, PK. Horní Němčí, Hornoněmčanský háj forest (45), 7.vii.1980, 2 ♂♂, PL. Suchov, Kazivec brook valley (47), 9.ix.1998, 1 ♀, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 2 ♀♀, IM. Komňa, Nový Dvůr (53), 21.viii.1984, 1 ♀, PL. Březová, Kalábová NM (58), 4.vii.2001, 1 ♂, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 12 ♂♂ 19 ♀♀, IM. Radějov, Holý vrch hill (74), 4.vii.1977, 2 ♀♀, LP. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 2 ♂♂ 10 ♀♀, IM; 22.vi.2001, 9 ♂♂ 17 ♀♀, IM & PK. Radějov, Lučina (76), 14.vii.1998, 1 ♂ 4 ♀♀, IM. Malá Vrbka, Výzkum hill (80), 25.v.2000, many ♂♂ ♀♀, IM; 18.vi.2000, many ♂♂ ♀♀, IM & PK. Radějov, Veselka hill (85), 11.vii.1998, 1 ♂ 8 ♀♀, IM. Velká nad Veličkou, village (87), 18.viii.2000, 1 ♀, PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 1 ♀, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, many ♂♂ ♀♀, IM. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 1 ♂ 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common at forest margins throughout the area. **General distribution:** European. **Host plants:** Polyphagous on deciduous trees (particularly abundant on *Acer* spp.). **Red List status:** –.

Allygidius (Allygidius) abbreviatus (Lethierry, 1878)

(VU)

Material examined. Poteč, Ploštiny NR (12), 4.vii.1999, 1 ♂, IM. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 1 ♂, IM. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 3 ♂♂ 1 ♀, IM; 10.ix.1999, 1 ♀, IM; 16.viii.2006, 1 ♀, PK. Brumov, Kloboucká street (24), 30.vi.2004, 1 ♂; 2.ix.2004, 1 ♀; both IM. Blatnička, Milejovské louky meadows (39), 11.vii.2009, 1 ♀, PB. Horní Němčí, Drahy NR (48), 21.vii.2002, 1 ♀, IM; 22.vi.–24.vii.2003, 1 ♀, PT, KR. Radějov, Žerotín NM (73), 11.vii.1998, 1 ♂ 1 ♀, IM. Kněždub, Čertoryje NNR, Járkovec brook valley (77), 22.vi.2008, 3 ♂♂; 12.viii.2008, 3 ♀♀; all KD & KF. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 22.vi.2008, 1 ♂, KD & KF. Radějov, Veselka hill (85), 11.vii.1998, 2 ♂♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 1 ♂, IM; 27.vii.2000, 1 ♀, IM; 18.viii.2000, 1 ♀, PK. Suchov, Trnovský Mlýn (90), 6.viii.–8.ix.2005, 1 ♀, PT, KR. Javorník, Jazevčí NNR (96), 19.vi.2000, 2 ♂♂ 1 ♀, IM. Javorník, Petruchovy Mlýny (97), 29.vi.2001, 1 ♂, IM. Nová Lhota, Fojtické Mlýny (98), 7.vii.1980, 1 ♂, PL. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 2 ♀♀, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 1 ♀, IM. Javorník, Machová NR (102), 9.vii.1998, 2 ♂♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common throughout the area; in non-intensively used meadows and pastures on relatively warm and sunny sites, fragments of dry grassland, and along forest margins. **General distribution:** Southern parts of central Europe, northern France, Belgium, Italy, Bulgaria, and Tunisia. **Host plants:** Poaceae (perhaps *Bromus erectus*, *Brachypodium pinnatum*, *Calamagrostis epigejos*, and *Molinia arundinacea*). **Red List status:** Vulnerable.

Comments. In the Czech Republic, *A. abbreviatus* is a quite common species in dry grasslands of southern Moravia; it also sporadically occurs in north-western Bohemia (DLABOLA 1956, MALENOVSKÝ *et al.* 2011 and unpublished data from the Moravian Museum, Brno).

Allygidius (Allygidius) atomarius (Fabricius, 1794) (VU)

Material examined. Kněždub, Kněždubský háj forest (75), 28.vii.2000, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Collected from a forest margin at only one site in the south-western part of the area. **General distribution:** European. **Host plants:** Poaceae (larvae), deciduous trees (particularly *Ulmus* and *Quercus* spp. – adults). **Red List status:** Vulnerable.

Comments. *Allygidius atomarius* is a thermophilous species that is quite frequent in open woodland and along forest margins in the Pannonian part of southern Moravia but probably quite rare elsewhere in the Czech Republic (DLABOLA 1954, MALENOVSKÝ *et al.* 2011).

Allygidius (Allygidius) commutatus (Fieber, 1872)

Published records. LANG (1945a): Suchá Loz, Studený vrch hill (57). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Poteč, Ploščiny NR (12), 17.viii.2006, 2 ♀♀, PK. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 2 ♂♂, IM. Nedašov, Kaňoury NM (18), 12.vii.2006, 1 ♀. Horní Němčí, Uvezené NM (50a), 10.vii.2009, 1 ♂, ZM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♂, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 19.vi.2000, 1 ♂, PK.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread along sunny forest margins and in forests throughout the area but quite rarely recorded. **General distribution:** Eurosiberian. **Host plants:** Poaceae (e.g. *Brachypodium pinnatum*, *Calamagrostis arundinacea*, *C. epigejos*, *Melica uniflora* – larvae), deciduous trees (e.g. *Quercus* spp., *Ulmus* spp., *Betula pendula* – adults). **Red List status:** –.

Allygidius (Dicrallygus) furcatus (Ferrari, 1882) (VU)

Published records. LANG (1945a): Korytná, Lipiny forest (38).

Additional material examined. Radějov, Žerotín NM (73), 11.vii.1998, 3 ♂♂ 5 ♀♀, IM. Kněždub, Kněždubský háj forest (75), 28.vii.2000, 2 ♂♂, IM. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 1 ♀, IM & PK.

Distribution and frequency in the Bílé Karpaty PLA: Restricted to xerothermic woodland and sunny forest margins in the south-western part of the area, rare. **General distribution:** Southern half of central, south-western and eastern Europe, north Africa. **Host plants:** Larvae probably on grasses, adults on shrubs and trees. **Red List status:** Vulnerable.

Comments. *Allygidius furcatus* is a xerothermophilous species usually collected from sun-exposed woody plants scattered in dry grassland or along forest margins. Its distribution in the Czech Republic is restricted to southern Moravia and central Bohemia (DLABOLA 1954, MALENOVSKÝ & LAUTERER 2005b, MALENOVSKÝ 2006, MALENOVSKÝ *et al.* 2011).

***Allygus communis* Ferrari, 1882**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 4 ♂♂ 3 ♀♀, IM. Brumov, Uhlíčky (14), 30.vi.2004, 1 ♂, 5 larvae, IM. Nedašov, Jalovcová stráž NR (17), 30.vi.2004, 4 larvae; 28.vii.2005, 1 ♀; all IM. Nedašov, Kaňoury NM (18), 12.vii.2006, 2 ♀♀, IM & PK; 16.viii.2006, 1 ♂, PK. Hluk, Kobylí hlava NM (35), 24.viii.2002, 1 ♀, IM. Korytná, Břeží (46), 5.vii.2001, 2 ♂♂, IM. Starý Hrozenkov, Skalka quarry (67), 22.ix.2007, 1 ♂, IM. Výchovec, Pod Hřibovňou NM (70), 24.vii.2005, 1 ♀, PK. Radějov, Žerotín NM (73), 11.vii.1998, 1 ♀, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 2 ♂♂, IM. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 1 ♂ 1 ♀, IM & PK. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♀, IM. Radějov, Kútky NR (86), 8.ix.1998, 1 ♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 19.vi.2000, 1 ♂, PK. Javorník, Jazevčí NNR (96), 19.vi.2000, 3 ♂♂, IM. Javorník, Machová NR (102), 9.vii.1998, 1 ♂ 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common throughout the area; mostly on solitary trees scattered in meadows and pastures and along sunny forest margins. **General distribution:** European. **Host plants:** Poaceae (larvae), *Quercus* and *Betula* spp. (adults). **Red List status:** –.

***Allygus maculatus* Ribaut, 1948**

(VU)

Published records. MALENOVSKÝ & LAUTERER (2010): Korytná, Břeží (46).

Distribution and frequency in the Bílé Karpaty PLA: Known from only one site in the south-western part of the area; swept from a solitary oak in a cattle pasture. **General distribution:** European. **Host plants:** Poaceae (larvae), *Quercus robur* and *Qu. petraea* (adults). **Red List status:** Vulnerable.

Comments. *Allygus maculatus* has been collected in only two localities in the Czech Republic so far, both in southern Moravia; besides the record from the Bílé Karpaty PLA, there is one from Sedlec near Mikulov – MALENOVSKÝ & LAUTERER 2010).

***Allygus mixtus* (Fabricius, 1794)**

Published records. LANG (1945a): Korytná, Lipiny forest (38); Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99). KMENT & MALENOVSKÝ (2008): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Poteč, Ploščiny NR (12), 1.vi.2002, 5 larvae, IM; 17.viii.2006, 2 ♂♂ 1 ♀, PK. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 2 ♂♂ 1 ♀, IM. Nedašov, Kaňoury NM (18), 16.viii.2006, 1 ♀, PK. Bylnice, Na Stráži (25), 11.vii.2006, 1 ♀, IM. Nedašov, Pod Cigánem NM (30), 30.vi.2004, 6 larvae; 28.v.2005, 2 larvae; 28.vii.2005, 1 ♀; all IM. Korytná, Břeží (46), 5.vii.2001, 3 ♂♂, IM. Horní Němčí, Drahy NR (48), 21.ix.2001, 1 ♀, PK. Bánov, Skalky hill (52), 21.viii.1984, 1 ♀, PL. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♂, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 2 ♂♂ 3 ♀♀ 3 larvae; 8.viii.2007, 3 ♀♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♂ 1 ♀, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂; 28.vii.2000, 1 ♀; both IM. Hrubá Vrbka, football ground (82), 28.vii.2001, 1 ♀, IM. Velká nad Veličkou, village (87), 19.vi.2000, 1 ♂, PK. Javorník, Machová NR (102), 9.vii.1998, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; along forest margins and on solitary trees scattered in meadows and pastures. **General distribution:** European. **Host plants:** Poaceae (larvae), various deciduous trees (adults). **Red List status:** –.

Allygus modestus Scott, 1876

Material examined. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♂, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♀, IM. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 1 ♀, IM & PK. Hrubá Vrbka, village (83), 27.–29.vi.2008, 1 ♂, ZM. Velká nad Veličkou, village (87), 19.vi.2000, 1 ♀, PK.

Distribution and frequency in the Bílé Karpaty PLA: Recorded for the central and south-western parts of the area, mostly at relatively low elevations; along forest margins and streamside vegetation, quite rare. **General distribution:** European. **Host plants:** Poaceae (larvae), various deciduous trees (adults). **Red List status:** –.

Alnetoidia alneti (Dahlbom, 1850)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Petrůvka, U Petrůvky NM (3), 6.viii.1999, 1 ♀, PK. Poteč, Ploščiny NR (12), 17.viii.2006, 1 ♂ 3 ♀♀, PK. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 7 ♂♂ 7 ♀♀, IM. Nedašov, Jalovcová stráň NR (17), 12.vii.2006, 1 ♂, IM. Nedašov, Kaňoury NM (18), 12.vii.2006, 4 ♂♂ 11 ♀♀, IM; 16.viii.2006, 1 ♀, PK. Bylnice, Na Stráži (25), 11.vii.2006, 5 ♀♀, IM. Bylnice, Bylničky (26), 24.vi.1982, 8 ♂♂ 1 ♀, PL. Bylnice, railway station environs (27), 1.vii.1999, 1 ♀, MH & PK; 11.ix.1999, 1 ♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 1.vii.1999, 1 ♀, PK; 12.ix.1999, 1 ♀, IM. Nedašov, Na Salaši (29), 3.vii.1999, 2 ♀♀, IM. Boršice u Blatnice, Boršický potok brook valley (41), 16.viii.1984, 2 ♀♀, PL. Horní Němčí, Hornoněmčanský háj forest (45), 7.vii.1980, 6 ♂♂, PL. Horní Němčí, Drahy NR (48), 30.vi.2001, 2 ♀♀, IM. Komňa, Nový Dvůr (53), 21.viii.1984, 1 ♂ 3 ♀♀, PL. Korytná, Lubná pond environs (56), 5.vii.2001, 1 ♀, IM. Březová, Kalábová NM (58), 4.vii.2001, 1 ♂, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 3 ♂♂ 3 ♀♀, IM. Starý Hrozenkov, Skalka quarry (67), 8.viii.2007, 1 ♀, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 4 ♂♂ 10 ♀♀; 8.viii.2007, 5 ♀♀; all IM. Radějov, Lučina (76), 14.vii.1998, 4 ♂♂ 2 ♀♀, IM; 17.vi.2000, 20 ♂♂, IM; 22.vi.2001, 1 ♂, IM & PK. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 1 ♂, IM & PK. Hrubá Vrbka, football ground (82), 19.vi.2000, 1 ♂ 1 ♀, IM & PK; 28.vii.2001, 1 ♀, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 2 ♀♀, IM. Radějov, Veselka hill (85), 11.vii.1998, 1 ♂, IM. Velká nad Veličkou, village (87), 19.vi.2000, 1 ♂, PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 1 ♂, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 5 ♂♂ 2 ♀♀, IM. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 1 ♀, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 1 ♀, IM. Javorník, Machová NR (102), 14.vi.2010, 1 ♂ 1 ♀, MT, JM & PC.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; in various habitats, e.g. in the vicinity of standing or running water, at forest margins, in orchards, and along roads. **General distribution:** Eurosiberian. **Host plants:** Polyphagous on deciduous trees and shrubs (particularly abundant on *Alnus glutinosa* and *A. incana*). **Red List status:** –.

Anaceratagallia ribauti (Ossiannilsson, 1938)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Brumovka brook valley (9), 9.ix.1999, 1 ♀, IM. Brumov, Uhličky (14), 30.vi.2004, 1 ♀; 1.ix.2004, 1 ♂ 1 ♀; 5.x.2004, 4 ♂♂ 3 ♀♀ 5 larvae; all IM; 4.vii.–6.viii.2005, 4 ♂♂ 1 ♀ 1 larva, PT, KR; 28.vii.2005, 1 ♂; 4.ix.2005, 1 ♂ 1 ♀; all PK. Nedašov, village (15), 10.ix.1999, 2 ♂♂ 2 ♀♀ 1 larva, IM. Nedašov, Jalovcová stráň NR (17), 6.ix.2005, 1 ♂ 1 ♀, IM. Bylnice, railway station environs (27), 21.v.1999, 1 ♂, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 1 ♂, IM. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 3 ♀♀ 1 larva; 5.x.2004, 1 ♀; all IM.

Blatnička, Milejovské louky meadows (39), 11.vii.2009, 1 ♂, PB. Horní Němčí, village (44), 13.viii.2001, 1 ♂, PK. Korytná, Březí (46), 5.vii.2001, 7 ♂♂, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 1 ♂, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 1 ♀, PK; 13.viii.2001, 1 larva, PK; 21.ix.2001, 1 ♂ 2 larvae, PK; 22.vi.–24.vii.2003, 1 ♀, PT, KR. Horní Němčí, Vinohrádky (49), 30.vi.2001, 3 ♂♂, IM; 21.ix.2001, 3 ♂♂ 5 larvae, PK; 20.vii.2002, 7 ♂♂ 3 ♀♀, IM; 10.ix.2002, 2 ♂♂ 2 ♀♀, IM; 22.vi.–24.vii.2003, 1 ♂, PT, KR; 24.vii.–22.viii.2003, 1 ♀, PT, KR; 22.viii.–27.ix.2003, 6 ♂♂ 5 ♀♀ 3 larvae, PT, KR. Komňa, Lom Rasová NM (54), 5.vii.2001, 1 ♂ 3 ♀♀, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♂, IM & PK. Strání, Obecnice hill (60), 2.vii.2001, 4 ♂♂ 1 ♀, IM & PK; 9.viii.2001, 1 ♀, PK; 21.ix.2001, 1 larva, IM; 20.vii.2002, 1 ♂ 1 ♀, IM; 12.ix.2002, 1 ♂ 1 ♀, IM. Lopeník, U Zvonice NM (63), 25.ix.2004, 2 ♂♂, IM. Lopeník, Lopenické sedlo (64), 25.ix.2004, 2 ♂♂ 3 larvae, IM; 24.vii.2005, 2 ♂♂, IM; 3.ix.2005, 1 ♂, PK; 26.vi.–26.vii.2005, 1 larva, PT, KR. Starý Hrozenkov, Skalka quarry (67), 8.viii.2007, 4 ♀♀, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 2 ♂♂ 2 ♀♀; 22.ix.2007, 2 ♀♀; all IM. Výskovec, Výskovecké Bošačky (69), 27.vi.2004, 1 larva, IM; 19.viii.2004, 1 ♂ 1 ♀, PK; 25.ix.2004, 26 ♂♂ 15 ♀♀ 8 larvae, PK; 21.v.2005, 1 ♂ 1 ♀ 1 larva, IM; 24.vii.2005, 1 ♂, PK; 3.ix.2005, 1 ♀ 3 larvae, PK. Radějov, Holý vrch hill (74), 8.ix.1998, 1 ♀, IM. Kněždub, Kněždubský háj forest (75), 20.ix.2001, 1 ♂, IM. Malá Vrbka, Výzkum hill (80), 16.xi.1999–4.iii.2000, 13 ♂♂, PT, PBz; 27.vii.2000, 2 ♂♂ 5 ♀♀, IM & PK. Hrubá Vrbka, football ground (82), 19.vi.2000, 1 ♀, IM & PK; 28.vii.2001, 1 ♂, IM; 20.ix.2001, 1 ♀, IM. Suchov, Suchovské Mlýny (89), 23.vi.2004, 3 ♂♂, IM; 18.viii.2004, 1 ♀, PK; 1.x.2004, 4 ♂♂ 2 ♀♀, IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 1 ♀ 1 larva, IM; 16.viii.2004, 1 ♂ 2 ♀♀, PK; 1.x.2004, 32 ♂♂ 3 ♀♀ 17 larvae, IM; 27.vii.2005, 6 ♂♂ 3 ♀♀, IM; 1.ix.2005, 1 ♂ 3 larvae, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂; 10.ix.2000, 1 ♀; both IM. Javorník, Petruchovy Mlýny (97), 23.vi.2004, 1 ♂ 2 larvae; 2.ix.2004, 1 ♂ 1 ♀ 3 larvae; 1.x.2004, 10 ♂♂ 7 ♀♀ 1 larva; 1.ix.2005, 1 larva; all IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 1 ♀, IM. Strání, Záhumenice NM (104), 24.v.2001, 3 ♀♀, IM; 9.viii.2001, 1 ♂ 1 ♀, PK; 21.ix.2001, 11 ♂♂ 5 ♀♀ 45 larvae, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area in meadows, pastures and ruderal sites. **General distribution:** Western Palaearctic. **Host plants:** Polyphagous on dicotyledonous herbs (e.g. *Plantago* spp., *Trifolium* spp.). **Red List status:** –.

Anoplotettix cf. *fuscovenosus* (Ferrari, 1882)

Material examined. Horní Němčí, village (44), 30.vi.2001, 1 ♂, IM. Kněždub, Kněždubský háj forest (75), 28.vii.2000, 2 ♀♀, IM. Malá Vrbka, Výzkum hill (80), 18.–19.vi.2000, 1 ♂ 1 ♀, IM & PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 19.vi.2000, 1 ♂, PK.

Distribution and frequency in the Bílé Karpaty PLA: Confined to sunny forest margins and shrubby vegetation along roads and paths in the south-western part of the area, uncommon. **General distribution:** Southern half of Europe, Mediterranean area including north Africa, Turkey. **Host plants:** On deciduous shrubs (e.g. *Corylus avellana*). **Red List status:** –.

Comments. *Anoplotettix* is a species-rich genus with critical taxonomy (e.g. DLABOLA 1974). Two species have been recorded from the Czech Republic so far, *A. fuscovenosus* and *A. horvathi* Metcalf, 1955 (DLABOLA 1954, MALENOVSKÝ & LAUTERER 2010). The above cited specimens from the Bílé Karpaty PLA are provisionally identified here as *A. fuscovenosus*, although the shape of their aedeagus reminds of *A. beieri* Wagner, 1959, described from Greece (WAGNER 1959, DLABOLA 1974). A detailed study of more specimens from a wider area is needed to confirm the identification.

***Anoscopus albifrons* (Linnaeus, 1758)**

Material examined. Horní Němčí, Drahy NR (48), 24.vii.–22.viii.2003, 1 ♂, PT, KR. Radějov, Žerotín NM (73), 11.vii.1998, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Known only from two xerothermic sites in the south-western part of the area but probably under-recorded (specimens of this epigeic species are only rarely collected into sweep-nets); in dry grassland. **General distribution:** European. **Host plants:** Poaceae (e.g. *Avenella flexuosa*, *Holcus mollis*, *Brachypodium pinnatum*). **Red List status:** –.

***Anoscopus flavostriatus* (Donovan, 1799)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 1 ♀, IM; 14.viii.2006, 1 ♂, PK. Brumov, Uhlíčky (14), 30.vi.2004, 1 larva, IM; 3.vi.–4.vii.2005, 1 larva; 4.vii.–6.viii.2005, 2 ♂♂; all PT, KR. Brumov, Kloboucká street (24), 3.vi.–4.vii.2005, 19 larvae; 4.vii.–6.viii.2005, 13 ♂♂ 2 ♀♀ 11 larvae; 6.viii.–7.ix.2005, 4 ♂♂; all PT, KR. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 1 ♀; 5.x.2004, 1 ♂; both IM. Horní Němčí, Drahy NR (48), 22.vi.–24.vii.2003, 1 ♂ 1 ♀ 4 larvae; 24.vii.–22.viii.2003, 13 ♂♂ 1 ♀ 1 larva; 22.viii.–27.ix.2003, 1 ♂ 2 ♀♀; all PT, KR. Horní Němčí, Vinohrádky (49), 20.vii.2002, 1 ♂, IM; 22.vi.–24.vii.2003, 1 ♂, PT, KR; 24.vii.–22.viii.2003, 2 ♂♂, PT, KR; 22.viii.–27.ix.2003, 2 ♂♂ 1 larva, PT, KR. Lopeník, U Zvonice NM (63), 26.vii.–26.viii.2005, 3 ♂♂, PT, KR. Lopeník, Lopenické sedlo (64), 20.v.–25.vi.2005, 1 larva; 26.vi.–26.vii.2005, 6 ♂♂ 2 ♀♀ 15 larvae; 26.vii.–26.viii.2005, 7 ♂♂; all PT, KR. Suchov, Trnovský Mlýn (90), 4.vii.–6.viii.2005, 13 ♂♂ 1 ♀ 2 larvae; 6.viii.–8.ix.2005, 2 ♂♂; all PT, KR. Javorník, Petruchovy Mlýny (97), 17.vii.2002, 3 ♂♂ 1 ♀, IM; 17.vi.–19.vii.2003, 9 ♂♂, PT, KR; 19.vii.–17.viii.2003, 49 ♂♂ 1 ♀ 1 larva, PT, KR. Strání, Záhumenice NM (104), 20.vii.2002, 7 ♂♂ 4 ♀♀, IM; 22.vi.–24.vii.2003, 8 ♂♂, PT, KR; 24.vii.–22.viii.2003, 36 ♂♂, PT, KR.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and probably common in meadows and pastures throughout the area; most specimens were collected by means of pitfall traps. **General distribution:** Eurosiberian. **Host plants:** Poaceae (e.g. *Avenella flexuosa*, *Dactylis glomerata*, *Elytrigia repens*). **Red List status:** –.

***Anoscopus histrionicus* (Fabricius, 1794)**

(VU)

Material examined. Korytná, Březí (46), 5.vii.2001, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Known from only one site (a cattle pasture on a sunny hillside) in the south-western part of the area. **General distribution:** Western Palaearctic. **Host plants:** Probably Poaceae. **Red List status:** Vulnerable.

Comments. *Anoscopus histrionicus* is an epigeic species with insufficiently known distribution in the Czech Republic. It may be under-recorded in the country as it is generally only rarely collected into sweep-nets. NICKEL (2003) and KUNZ *et al.* (2011), however, report a recent decline from most of its former localities in Germany.

***Anoscopus serratulae* (Fabricius, 1775)**

Material examined. Horní Němčí, Vinohrádky (49), 20.vii.2002, 2 ♂♂ 3 ♀♀, IM; 22.vi.–24.vii.2003, 52 ♂♂ 5 ♀♀ 2 larvae, PT, KR; 24.vii.–22.viii.2003, 22 ♂♂ 26 ♀♀, PT, KR. Javorník, Petruchovy Mlýny (97), 17.vi.–19.vii.2003, 9 ♂♂; 19.vii.–17.viii.2003, 4 ♂♂; all PT, KR. Strání, Záhumenice NM (104), 22.vi.–24.vii.2003, 6 ♂♂; 24.vii.–22.viii.2003, 5 ♂♂; all PT, KR.

Distribution and frequency in the Bílé Karpaty PLA: Known from three sites (all cattle pastures) in the south-western part of the area, perhaps under-recorded (like other *Anoscopus* spp., this is an epigeic species which can be effectively collected by pitfall traps or suction samplers but quite exceptionally by sweeping). **General distribution:** European. **Host plants:** Poaceae (e.g. *Elytrigia repens*, *Dactylis glomerata*, *Holcus* spp.). **Red List status:** –.

***Aphrodes bicincta* (Schrank, 1776)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79) [cited as *A. makarovi*, misidentified].

Material examined. Poteč, Ploščiny NR (12), 4.vii.1999, 1 ♂, IM. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 1 ♂, IM. Bylnice, Na Stráži (25), 11.vii.2006, 4 ♂♂, IM. Korytná, Březí (46), 5.vii.2001, 2 ♂♂, IM. Horní Němčí, Vinohrádky (49), 20.vii.2002, 1 ♂, IM. 22.v.–22.vi.2003, 14 larvae, PT, KR; 22.vi.–24.vii.2003, 129 ♂♂ 11 ♀♀ 4 larvae, PT, KR; 24.vii.–22.viii.2003, 28 ♂♂ 2 ♀♀, PT, KR. Komňa, Lom Rasová NM (54), 5.vii.2001, 1 ♂, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 2 ♂♂; 8.viii.2007, 1 ♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 5 ♂♂ 2 ♀♀, IM. Kněždub, Kněždubský háj forest (75), 17.viii.2000, 1 ♂, PK. Kněždub, Čertoryje NNR, Járkovec brook valley (77), 10.ix.2008, 1 ♂, IM. Kněždub, Čertoryje NNR (77, 79), 14.vii.1998, 1 ♂, IM. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 1 ♂; 27.vii.2000, 3 ♂♂ 7 ♀♀; all IM & PK. Hrubá Vrbka, village (83), 8.–12.vii.2009, 2 ♂♂, ZM. Radějov, Veselka hill (85), 11.vii.1998, 1 ♂, IM. Radějov, Kútky NR (86), 11.vii.1998, 1 ♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 18.viii.2000, 1 ♂ 1 ♀, PK. Suchov, Suchovské Mlýny (89), 27.vii.2005, 1 ♂, IM. Suchov, Trnovský Mlýn (90), 27.vii.2005, 4 ♂♂, IM; 4.vii.–6.viii.2005, 1 ♂ 1 ♀; 6.viii.–8.ix.2005, 1 ♂ 2 ♀♀; all PT, KR. Javorník, Machová NR (102), 9.vii.1998, 2 ♂♂, IM. Strání, Záhumenice NM (104), 9.viii.2001, 3 ♂♂ 3 ♀♀, PK; 20.vii.2002, 5 ♂♂ 16 ♀♀, IM; 22.vi.–24.vii.2003, 39 ♂♂ 6 ♀♀, PT, KR; 24.vii.–22.viii.2003, 5 ♂♂ 5 ♀♀, PT, KR.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; in pastures, dry ruderal sites, abandoned fields and quarries and on waysides. **General distribution:** Eurosiberian. **Host plants:** Various Fabaceae. **Red List status:** –.

Comments. Most records previously published under this name from the Czech Republic should be checked after TISHECHKIN (1998) as they may partly concern *A. diminuta* and *A. makarovi*.

***Aphrodes diminuta* Ribaut, 1952**

Published records. LANG (1945a): Korytná, Lipiny forest (38); Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79). [All cited as *Aphrodes bicinctus*, misidentified].

Additional material examined. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 2 ♀♀, IM; 24.viii.2002, 1 ♀, PK. Valašské Klobouky, Dobšená NM (8), 10.ix.1999, 1 ♀, IM. Poteč, Ploščiny NR (12), 13.ix.1999, 1 ♂,

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IM. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 3 ♂♂, IM. Brumov, Uhličky (14), 30.vi.2004, 12 larvae, IM; 28.v.2005, 1 larva, IM; 28.vii.2005, 1 ♂ 2 ♀♀, PK; 7.ix.–6.x.2005, 2 ♀♀, PT, KR. Nedašov, Jalovcová stráň NR (17), 10.ix.1999, 1 ♀; 28.v.2005, 3 larvae; 28.vii.2005, 1 ♂ 2 larvae; all IM; 16.viii.2006, 1 ♀, PK. Nedašov, Kaňoury NM (18), 12.vii.2006, 8 ♂♂ 1 ♀, IM; 16.viii.2006, 2 ♀♀, PK. Brumov, Kloboucká street (24), 2.ix.2004, 1 ♀, IM; 28.v.2005, 3 larvae, IM; 28.vii.2005, 2 ♂♂ 4 ♀♀, PK; 4.ix.2005, 1 ♀, PK; 3.vi.–4.vii.2005, 5 larvae; 4.vii.–6.viii.2005, 3 ♂♂ 2 larvae; 6.viii.–7.ix.2005, 2 ♀♀; all PT, KR. Bylnice, Na Stráži (25), 11.vii.2006, 3 ♂♂, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1998, 1 ♂, IM. Nedašov, Pod Cigánem NM (30), 30.vi.2004, 1 larva; 1.ix.2004, 4 ♂♂ 11 ♀♀ 1 larva; 5.x.2004, 3 ♀♀; 28.vii.2005, 51 ♂♂ 12 ♀♀ 15 larvae; 6.ix.2005, 1 ♂ 4 ♀♀; all IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 1 ♂, PK; 21.vii.2002, 11 ♂♂ 2 ♀♀ 1 larva, IM. Lopeník, U Zvonice NM (63), 27.vi.2004, 6 larvae, IM; 24.vii.2005, 8 ♂♂ 10 larvae, IM; 26.vii.–26.viii.2005, 6 ♂♂ 1 ♀ 1 larva, PT, KR. Lopeník, Lopenické sedlo (64), 24.vii.2005, 1 ♂ 1 ♀, IM; 26.vii.–26.viii.2005, 7 ♂♂, PT, KR; 26.viii.–28.ix.2005, 1 ♀, PT, KR. Vyškovec, Pod Hřibovňou NM (70), 24.vii.2005, 1 ♂, PK. Kněždub, Čertoryje NNR, Járkovec brook valley (77), 28.vii.2001, 2 ♂♂, IM; 12.viii.2008, 1 ♂ 1 ♀, KD & KF; 10.ix.2008, 1 ♂ 1 ♀, IM. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 12.viii.2008, 1 ♂, KD & KF. Kněždub, Čertoryje NNR (77, 79), 14.vii.1998, 3 ♂♂, IM. Radějov, Kútky NR (86), 11.vii.1998, 1 ♂, IM. Suchov, Suchovské Mlýny (89), 27.vii.2005, 3 ♂♂ 4 ♀♀ 1 larva, IM. Suchov, Trnovský Mlýn (90), 27.vii.2005, 4 ♂♂, IM. Javorník, Petruchovy Mlýny (97), 23.ix.2001, 1 ♂; 17.vii.2002, 3 ♂♂ 2 ♀♀; all IM; 17.vi.–19.vii.2003, 1 ♂, PT, KR. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 1 ♂; 9.ix.1998, 1 ♂; both IM. Javorník, Machová NR (102), 9.vii.1998, 3 ♂♂, IM. Strání, Záhumenice NM (104), 9.viii.2001, 1 ♂ 1 ♀, PK; 20.vii.2002, 10 ♂♂ 9 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in non-intensively used meadows and pastures throughout the area. **General distribution:** European. **Host plants:** Probably various Fabaceae. **Red List status:** –.

Comments. *Aphrodes diminuta* had been partly cited under *A. bicincta* in previous Czech literature including the records from the Bílé Karpaty by LANG (1945a) and MALENOVSKÝ (2001). The species, as interpreted after TISHECHKIN (1998; see NICKEL & REMANE 2002 for nomenclature), is probably widely distributed in the country; additional confirmed records are e.g. from central and northern Bohemia (MALENOVSKÝ 2006).

Aphrodes makarovi Zachvatkin, 1948

Material examined. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 1 ♂, IM. Brumov, Kloboucká street (24), 28.vii.2005, 1 ♂, PK. Bylnice, railway station environs (27), 1.vii.1999, 2 ♂♂ 2 ♀♀, MH & PK. Horní Němčí, village (44), 30.vi.2001, 2 ♂♂, IM. Horní Němčí, Vinohrádky (49), 20.vii.2002, 9 ♂♂ 4 ♀♀, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♂, IM & PK. Strání, Obecnice hill (60), 9.viii.2001, 1 ♂, PK. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 4 ♂♂ 1 ♀, IM. Vyškovec, Pod Hřibovňou NM (70), 24.vii.2005, 1 ♂, PK. Radějov, Žerotín NM (73), 11.vii.1998, 3 ♂♂, IM. Kněždub, Kněždubský háj forest (75), 28.vii.2000, 1 ♂ 1 ♀, IM. Malá Vrbka, Výzkum hill (80), 22.vi.2001, 3 ♂♂; 28.vii.2001, 2 ♂♂; all IM & PK. Hrubá Vrbka, football ground (82), 28.vii.2001, 1 ♂, IM & PK. Radějov, Měsíční údolí valley (84), 20.viii.2002, 1 ♂ 1 ♀, PK. Radějov, Veselka hill (85), 11.vii.1998, 1 ♂, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 1 ♂ 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; in eutrophicated, mesic to wet habitats, e.g. ruderal sites, forest undergrowth, fertilized meadows, intensively used pastures, in the vicinity of streams and ponds etc. **General distribution:** European. **Host plants:** Polyphagous on dicotyledonous herbs (e.g. *Urtica dioica*, *Taraxacum*, *Cirsium*, and *Rumex* spp.). **Red List status:** –.

***Arboridia ribauti* (Ossiannilsson, 1937)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Petrůvka, U Petrůvky NM (3), 6.viii.1999, 1 ♀, PK. Valašské Klobouky, Brumovská street (5), 19.v.1999, 1 ♀, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 1 ♂, IM. Poteč, Ploščiny NR (12), 13.ix.1999, 1 ♂ 1 ♀, IM. Valašské Klobouky, Bílé potoky NR (13), 9.ix.1999, 1 ♀, IM; 16.vi.2006, 1 ♀, IM; 14.viii.2006, 1 ♂ 1 ♀, PK. Nedašov, Jalovcová stráň NR (17), 5.x.2004, 1 ♂, IM. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 1 ♂, IM. Starý Hrozenkov, Skalka quarry (67), 8.viii.2007, 1 ♂; 22.ix.2007, 1 ♂; both IM. Starý Hrozenkov, Hrozenkovské terasy (68), 8.viii.2007, 1 ♂; 22.ix.2007, 1 ♀; both IM. Radějov, Holý vrch hill (74), 8.ix.1998, 1 ♀, IM. Kněždub, Kněždubský háj forest (75), 22.vi.2001, 1 ♀, IM & PK. Radějov, Lučina (76), 14.vii.1998, 1 ♂ 1 ♀, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 11 ♂♂ 6 ♀♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 1 ♂, IM. Javorník, Jazevčí NNR (96), 10.ix.2000, 1 ♂, IM. Strání, Záhumenice NM (104), 15.vi.2010, 1 ♂, MT, JM & PC.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common along forest margins throughout the area, although usually collected in low numbers of specimens. **General distribution:** European. **Host plants:** Deciduous trees (mainly *Carpinus betulus*). **Red List status:** —.

***Arocephalus (Ariellus) punctum* (Flor, 1861) (VU)**

Material examined. Nedašov, Jalovcová stráň NR (17), 3.vii.1999, 2 ♂♂; 12.vii.2006, 1 ♂ 2 ♀♀; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Rare and extremely local: recorded from a small fragment of heathland on acidic soil at a forest margin in the north-easternmost tip of the area. **General distribution:** European. **Host plants:** Fine-leaved *Festuca* spp. **Red List status:** Vulnerable.

Comments. In the Czech Republic, *A. punctum* is a widespread but quite rare species occurring locally from medium to submontane altitudes in pastures, undergrowth of open (e.g. pine) forests, inland sand dunes and dry grassland on rocks. It has been recorded from the foothills of the Krkonoše Mts. in north-eastern Bohemia, the Bohemian Karst in central Bohemia, the Třeboňsko PLA in southern Bohemia, the Jeseníky Mts. in northern Moravia, the Bohemian-Moravian Highlands and the Rokytná River valley near Moravský Krumlov in south-western Moravia (DLABOLA 1954, LAUTERER *et al.* 2002, and unpublished data from the collections of the Moravian Museum, Brno).

***Arocephalus (Arocephalus) languidus* (Flor, 1861)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 2 ♀♀, IM. Valašské Klobouky, Dobšená NM (8), 10.ix.1999, 1 ♂, IM. Valašské Klobouky, Brumovka brook valley (9), 9.ix.1999, 4 ♂♂ 1 ♀, IM. Poteč, Ploščiny NR (12), 1.vi.2002, 9 ♂♂ 2 ♀♀ 1 larva, IM; 24.viii.2002, 8 ♂♂ 1 ♀, PK. Brumov, Uhličky (14), 30.vi.2004, 1 ♂ 3 ♀♀, IM; 1.ix.2004, 3 ♂♂, IM; 4.ix.2005, 1 ♂ 1 ♀, PK. Nedašov, village (15), 3.vii.1999, 1 ♂, IM. Nedašov, Jalovcová stráň NR (17), 10.ix.1999, 3 ♂♂ 3 ♀♀; 6.ix.2005, 3 ♂♂ 2 ♀♀; all IM. Brumov, Kloboucká street (24), 4.ix.2005, 2 ♂♂, PK. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 1 ♂ 1 ♀, IM. Nedašov, Pod Cigánem NM (30), 30.vi.2004, 1 ♀, IM. Hluk, Kobyílí hlava NM (35), 24.viii.2002, 1 ♂, IM. Blatnička, Milejovské louky meadows (39), 16.viii.2009, 1 ♂, PB. Horní Němčí, village (44), 10.ix.1998, several ♂♂ ♀♀, IM. Korytná, Březí (46), 5.vii.2001, 3 ♂♂ 5 ♀♀, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 1 ♂, IM. Horní Němčí, Drahý NR

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(48), 30.vi.2001, 4 ♂♂ 4 ♀♀, IM & PK; 21.ix.2001, 1 ♂ 1 ♀, PK; 21.vii.2002, 3 ♂♂ 4 ♀♀ 11 larvae, IM; 10.ix.2002, 3 ♂♂ 2 ♀♀, IM. Horní Němčí, Vinohrádky (49), 30.vi.2001, 12 ♂♂ 4 ♀♀, IM; 13.viii.2001, 2 ♂♂ 3 ♀♀ 4 larvae, PK; 21.ix.2001, 1 ♂, PK; 20.vii.2002, 3 ♂♂, IM; 10.ix.2002, 1 ♂ 6 ♀♀, IM. Bánov, Skalky hill (52), 21.viii.1984, 1 ♂, PL. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 2 ♂♂, IM. Strání, Obecnice hill (60), 2.vii.2001, 1 ♀, IM & PK; 20.vii.2002, 2 ♀♀, IM. Lopeník, Lopenické sedlo (64), 24.vii.2005, 1 ♂ 2 ♀♀, IM; 3.ix.2005, 1 ♀, PK. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♀; 8.viii.2007, 3 ♂♂; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 8.viii.2007, 1 ♂, IM. Vyškovec, Vyškovecké Bošačky (69), 27.vi.2004, 9 ♂♂ 14 ♀♀, IM; 19.viii.2004, 7 ♂♂ 7 ♀♀, PK; 25.ix.2004, 10 ♂♂ 10 ♀♀, PK; 24.vii.2005, 1 ♀, PK; 3.ix.2005, 30 ♂♂ 25 ♀♀, PK. Hrubá Vrbka, football ground (82), 20.ix.2001, 1 ♀, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♂ 1 ♀, IM. Radějov, Kútky NR (86), 11.vii.1998, 1 ♂; 8.ix.1998, 1 ♂ 3 ♀♀, IM. Suchov, Suchovské Mlýny (89), 23.vi.2004, 1 ♂ 2 ♀♀, IM; 18.viii.2004, 2 ♂♂ 3 ♀♀, PK; 1.x.2004, 1 ♀, IM; 27.vii.2005, 1 ♂, IM; 1.ix.2005, 1 ♀, IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 1 ♂ 4 ♀♀, IM; 16.viii.2004, 7 ♂♂ 1 ♀, PK; 1.x.2004, 3 ♀♀, IM; 27.vii.2005, 2 ♂♂ 3 ♀♀, IM; 1.ix.2005, 26 ♂♂ 12 ♀♀, IM. Velká nad Veličkou, towards Javorník (91), 10.vi.1982, 2 ♂♂ 2 ♀♀, PL. Javorník, SW slopes of Háj hill (93), 19.vi.1980, 1 ♀, PL. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂ 5 ♀♀; 10.ix.2000, 1 ♂ 3 ♀♀; all IM. Javorník, Petruchovy Mlýny (97), 23.vi.2004, 12 ♂♂ 11 ♀♀; 2.ix.2004, 143 ♂♂ 51 ♀♀; 1.x.2004, 10 ♂♂ 15 ♀♀; 26.v.2005, 2 ♂♂; 27.vii.2005, 11 ♂♂ 5 ♀♀; 1.ix.2005, 33 ♂♂ 18 ♀♀; all IM. Strání, Záhumenice NM (104), 2.vii.2001, 8 ♂♂ 3 ♀♀, PK; 21.ix.2001, 24 ♂♂ 6 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; in sunny meadows and pastures, in fragments of dry grassland and along forest margins. **General distribution:** Palaearctic. **Host plants:** Tall-growing Poaceae (e.g. *Brachypodium pinnatum*, *Bromus erectus*, *Sesleria albicans*, *Stipa* spp.). **Red List status:** –.

Arocephalus (Arocephalus) longiceps (Kirschbaum, 1868)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, U Rybníků (6), 10.ix.1999, 5 ♂♂ 1 ♀, IM. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 1 ♂ 2 ♀♀, IM. Valašské Klobouky, Brumovka brook valley (9), 9.ix.1999, 1 ♂ 1 ♀, IM. Poteč, Ploštiny NR (12), 4.vii.1999, 1 ♀, IM; 13.ix.1999, 1 ♂ 1 ♀, IM; 1.vi.2002, 51 ♂♂ 27 ♀♀, IM; 24.viii.2002, 13 ♂♂ 5 ♀♀, PK; 17.viii.2006, 7 ♂♂ 1 ♀, PK. Valašské Klobouky, Bílé potoky NR (13), 23.viii.2002, 2 ♀♀, PK. Brumov, Uhličky (14), 5.x.2004, 1 ♂, IM; 4.ix.2005, 1 ♂, PK. Nedašov, Jalovcová stráž NR (17), 10.ix.1999, 1 ♂, IM. Nedašov, Kaňoury NM (18), 17.vi.2006, 1 ♂, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 4 ♂♂ 3 ♀♀, IM. Korytná, Břeží (46), 5.vii.2001, 6 ♂♂ 6 ♀♀, IM. Horní Němčí, Lesná hill (51), 15.v.1998, 1 ♂, IM. Komňa, Lom Rasová NM (54), 5.vii.2001, 12 ♂♂ 5 ♀♀, IM. Březová, Kalábová NM (58), 4.vii.2001, 1 ♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 2 ♂♂; 10.ix.1998, 2 ♂♂ 1 ♀; all IM. Strání, Důbrava hill (62), 7.vii.1980, 1 ♂, PL. Lopeník, U Zvonice NM (63), 25.ix.2004, 1 ♂, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♂ 2 ♀♀; 8.viii.2007, 1 ♂; all IM. Vyškovec, Vyškovecké Bošačky (69), 19.viii.2004, 1 ♂, PK; 25.ix.2004, 10 ♂♂ 2 ♀♀, PK; 3.ix.2005, 6 ♂♂ 4 ♀♀ 1 larva, PK. Kněždub, Kněždubský háj forest (75), 28.vii.2000, 1 ♀, IM; 17.viii.2000, 1 ♂, PK; 22.vi.2001, 1 ♀, IM & PK. Malá Vrbka, Výzkum hill (80), 8.ix.2000, 2 ♂♂, PK. Radějov, Kútky NR (86), 25.vi.1979, 1 ♀, PL. Suchov, Suchovské Mlýny (89), 1.x.2004, 1 ♂, IM. Javorník, Nad Vápenkou NM (94), 7.ix.2002, 1 ♀, IM. Javorník, loampit W of village (95), 7.ix.1998, 1 ♂; 24.v.2002, 1 ♂ 1 ♀; all IM. Javorník, Petruchovy Mlýny (97), 29.vi.2001, 1 ♂; 7.ix.2002, 1 ♂; both IM. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 1 ♀, IM. Javorník, Výzkum hill (103), 10.vi.1982, 2 ♂♂, PL. Strání, Javorina NNR (106), 4.vii.2001, 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; in meadows, pastures, forest glades, along forest roads etc. **General distribution:** European. **Host plants:** Poaceae (mainly *Holcus mollis*, *H. lanatus* and *Bromus erectus*). **Red List status:** –.

***Arthaldeus arenarius* Remane, 1960**

Material examined. Nedašov, Jalovcová stráň NR (17), 3.vii.1999, 1 ♂, IM. Sidonie, Vlárka brook valley above village (31), 8.ix.1981, 1 ♂, LP.

Distribution and frequency in the Bílé Karpaty PLA: Rare and local: recorded only in two sites (one of them being a dry slope, formerly used as a pasture) in the north-eastern part of the area. **General distribution:** Central Europe, Russia, Kazakhstan. **Host plant:** *Calamagrostis epigejos*. **Red List status:** –.

***Arthaldeus pascuellus* (Fallén, 1826)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79). KMENT & MALENOVSKÝ (2008): Lopeník, Lopenické sedlo (64); Strání, Záhumenice NM (104).

Additional material examined. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 3 ♂♂ 5 ♀♀, IM. Valašské Klobouky, U Rybníků (6), 10.ix.1999, 8 ♂♂ 3 ♀♀, IM. Valašské Klobouky, Javorůvky NR (7), 2.vii.1999, 2 ♂♂ 1 ♀, IM; 11.ix.1999, many ♂♂ ♀♀, IM; 24.viii.2002, 1 ♂, PK. Valašské Klobouky, Dobšená NM (8), 10.ix.1999, 3 ♀♀, IM. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 3 ♂♂ 14 ♀♀, MH; 9.ix.1999, 19 ♂♂ 2 ♀♀, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 1 ♂, IM. Valašské Klobouky, Královec hill (11), 10.ix.1999, 1 ♀, IM. Poteč, Ploščiny NR (12), 4.vii.1999, 3 ♂♂ 4 ♀♀, IM; 13.ix.1999, 15 ♂♂ 5 ♀♀, IM; 1.vi.2002, 286 ♂♂ 110 ♀♀ 8 larvae, IM; 24.viii.2002, 113 ♂♂ 21 ♀♀, PK; 17.viii.2006, 2 ♀♀, PK. Valašské Klobouky, Bílé potoky NR (13), 30.vi.1999, 1 ♂, PK; 9.ix.1999, 1 ♂, IM; 11.vii.2006, 6 ♂♂ 8 ♀♀, IM. Brumov, Uhličky (14), 30.vi.2004, 20 ♂♂ 16 ♀♀ 5 larvae; 1.ix.2004, 6 ♂♂ 8 ♀♀; 5.x.2004; 3 ♂♂ 11 ♀♀; 28.v.2005, 1 larva; all IM; 28.vii.2005, 1 larva; 4.ix.2005, 7 ♂♂ 2 ♀♀; all PK; 3.vi.–4.vii.2005, 1 ♂; 7.ix.–6.x.2005, 1 ♂; both PT, KR. Nedašov, Jalovcová stráň NR (17), 3.vii.1999, 3 ♂♂ 2 ♀♀; 10.ix.1999, 3 ♂♂; 1.ix.2004, 1 ♀; 6.ix.2005, 22 ♂♂ 4 ♀♀ 2 larvae; all IM. Nedašov, Kaňoury NM (18), 12.vii.2006, 1 ♂, IM. Brumov, Kloboucká street (24), 30.vi.2004, 1 ♂ 2 ♀♀; 2.ix.2004, 7 ♂♂; 5.x.2004, 3 ♂♂ 4 ♀♀; all IM; 28.vii.2005, 3 ♀♀; 4.ix.2005, 20 ♂♂ 5 ♀♀; all PK; 7.ix.–6.x.2005, 1 ♂, PT, KR. Bylnice, Bylničky (26), 24.vi.1982, 3 ♀♀, PL. Bylnice, railway station environs (27), 11.ix.1999, 9 ♂♂ 12 ♀♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 1.vii.1999, 2 ♂♂ 1 ♀, PK; 12.ix.1999, many ♂♂ ♀♀, IM. Nedašov, Pod Cigánem NM (30), 10.ix.1999, 19 ♂♂ 3 ♀♀; 30.vi.2004, 3 ♂♂; 1.ix.2004, 19 ♂♂ 23 ♀♀ 27 larvae; 5.x.2004, 65 ♂♂ 99 ♀♀ 22 larvae; 28.vii.2005, 7 ♂♂ 16 ♀♀; 6.ix.2005, 103 ♂♂ 28 ♀♀ 18 larvae; all IM. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 11 ♂♂ 5 ♀♀, IM. Louka, Hloží NR (42), 7.ix.1998, 1 ♂, IM. Horní Němčí, Hornoněmčanský háj forest (45), 7.vii.1985, 1 ♂, PL. Korytná, Březí (46), 5.vii.2001, 1 ♂, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 2 ♂♂ 1 ♀, IM. Horní Němčí, Vínohrádky (49), 30.vi.2001, 1 ♀, IM; 13.viii.2001, 1 ♂, PK; 21.ix.2001, 1 ♂, PK; 10.ix.2002, 1 ♂, IM. Komňa, Lom Rasová NM (54), 5.vii.2001, 9 ♂♂ 27 ♀♀, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♂ 4 ♀♀, IM & PK. Korytná, Lubná pond environs (56), 5.vii.2001, 2 ♀♀, IM. Březová, Kalábová NM (58), 4.vii.2001, 1 ♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, many ♂♂ ♀♀, IM. Strání, Důbrava hill (62), 7.vii.1980, 1 ♀, PL. Lopeník, U Zvonice NM (63), 3.ix.2005, 5 ♂♂ 1 larva, PK. Lopeník, Lopenické sedlo (64), 27.vi.2004, 23 ♂♂ 7 ♀♀ 4 larvae, IM; 25.ix.2004, 28 ♂♂ 15 ♀♀ 1 larva, IM; 24.vii.2005, 6 ♂♂ 3 ♀♀, IM; 3.ix.2005, 13 ♂♂ 2 ♀♀ 4 larvae, PK. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♂, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 2 ♂♂ 6 ♀♀; 8.viii.2007, 12 ♂♂ 5 ♀♀; 22.ix.2007, 4 ♂♂ 14 ♀♀; all IM. Vyškovec, Vyškovecké Bošačky (69), 27.vi.2004, 1 ♂, IM; 25.ix.2004, 6 ♂♂ 4 ♀♀, PK; 3.ix.2005, 5 ♂♂ 5 ♀♀, PK. Vyškovec, Pod Hřibovňou NM (70), 28.vi.2004, 2 ♂♂ 2 ♀♀ 2 larvae, IM; 25.ix.2004, 67 ♂♂ 57 ♀♀ 22 larvae, PK; 8.ix.2005, 29 ♂♂ 3 ♀♀ 2 larvae, IM. Malá Vrbka, Výzkum hill (80), 8.ix.2000, 8 ♂♂ 3 ♀♀, PK. Radějov, Měsíční údolí valley (84), 8.ix.1998, many ♂♂ 2 ♀♀, IM; 20.viii.2002, 1 ♂, PK. Radějov, Veselka hill (85), 11.vii.1998, 2 ♀♀, IM. Radějov, Kútky NR (86), 8.ix.1998, 9 ♂♂ 3 ♀♀, IM. Suchov, Suchovské Mlýny (89), 23.vi.2004, 1 ♀, IM. Javorník, village (92), 8.viii.2001, 1 ♀, PK; 24.v.2002, 1 ♂, IM. Javorník, loampit W of village (95), 7.ix.1998, 4 ♂♂, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, many ♂♂ ♀♀; 10.ix.2000, 13 ♂♂ 1 ♀; all IM. Javorník, Petruchovy Mlýny (97), 2.ix.2004, 9 ♂♂ 1 ♀; 1.x.2004, 3 ♀♀; 1.ix.2005, 1 ♂; all IM. Nová Lhota, Fojtické Mlýny (98),

Leafhoppers and planthoppers (Hemiptera: Auchenorrhyncha)

7.vii.1980, 2 ♀♀. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 5 ♂♂, IM. Strání, Záhumenice NM (104), 2.vii.2001, 23 ♂♂ 15 ♀♀, IM; 9.viii.2001, 1 ♀, PK; 21.ix.2001, 78 ♂♂ 28 ♀♀, IM. Strání, Javorina NNR (106), 4.vii.2001, 3 ♂♂ 2 ♀♀; 29.x.2011, 1 ♀; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in mesic to wet meadows (including fertilized ones), pastures and ruderal sites throughout the area. **General distribution:** Eurosiberian. **Host plants:** Poaceae (e.g. *Festuca*, *Lolium*, *Poa*, *Calamagrostis* spp.). **Red List status:** –.

Arthaldeus strüfrons (Kirschbaum, 1868)

Published records. LANG (1945a): Březová, Kalábová NM (58). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79). KMENT & MALENOVSKÝ (2008): Lopeník, Lopenické sedlo (64).

Additional material examined. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 1 ♂ 1 ♀, IM. Valašské Klobouky, U Rybníků (6), 10.ix.1999, 1 ♂, IM. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 6 ♂♂ 1 ♀, IM. Valašské Klobouky, Dobšená NM (8), 10.ix.1999, 2 ♂♂, IM. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 1 ♂ 1 ♀, MH; 9.ix.1999, 9 ♂♂ 4 ♀♀, IM. Poteč, Ploštiny NR (12), 24.viii.2002, 3 ♂♂ 2 ♀♀, PK. Valašské Klobouky, Bílé potoky NR (13), 30.vi.1999, 1 ♀, PK; 9.ix.1999, 1 ♀, IM. Brumov, Uhličky (14), 5.x.2004, 1 ♂, IM. Nedašov, village (15), 3.vii.1999, 1 ♀, IM. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 6 ♂♂ 5 ♀♀; 10.ix.1999, 5 ♂♂ 5 ♀♀; 30.vi.2004, 1 ♂; all IM. Brumov, Kloboucká street (24), 30.vi.2004, 2 ♀♀, IM; 4.vii.–6.viii.2005, 1 ♂, PT, KR; 4.ix.2005, 2 ♂♂ 1 larva, PK. Bylnice, Bylničky (26), 24.vi.1982, 9 ♂♂ 10 ♀♀, PL. Bylnice, railway station environs (27), 11.ix.1999, 1 ♂ 1 ♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 12 ♂♂ 4 ♀♀, IM. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 1 ♂; 28.v.2005, 1 ♂; 6.ix.2005, 4 ♂♂ 1 ♀; all IM. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 3 ♂♂ 5 ♀♀, IM. Horní Němčí, Hornoněmčanský háj forest (45), 7.vii.1985, 3 ♂♂ 3 ♀♀, PL. Korytná, Břeží (46), 5.vii.2001, 2 ♂♂ 2 ♀♀, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 7 ♂♂ 2 ♀♀, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, several ♂♂ ♀♀, IM; 30.vi.2001, 3 ♂♂ 3 ♀♀, IM & PK; 21.ix.2001, 1 ♂ 2 ♀♀, PK; 10.ix.2002, 1 ♂ 2 ♀♀, IM; 10.ix.2002, 3 ♂♂, IM. Horní Němčí, Vinohrádky (49), 30.vi.2001, 2 ♂♂ 3 ♀♀, IM; 13.viii.2001, 3 ♂♂ 3 ♀♀ 10 larvae, PK; 21.ix.2001, 5 ♂♂ 2 ♀♀ 1 larva, PK; 23.v.2002, 1 larva, IM & PK; 20.vii.2002, 1 larva, IM; 10.ix.2002, 10 ♂♂ 6 ♀♀, IM; 22.v.–22.vi.2003, 1 larva, PT, KR; 24.vii.–22.viii.2003, 1 ♀, PT, KR. Komňa, Lom Rasová NM (54), 5.vii.2001, 1 ♀, IM. Korytná, Lubná pond environs (56), 5.vii.2001, 1 ♂ 2 ♀♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♀; 10.ix.1998, many ♂♂ ♀♀; all IM. Strání, Obecnice hill (60), 2.vii.2001, 2 ♂♂ 5 ♀♀, IM & PK; 21.ix.2001, 1 ♂ 2 ♀♀, IM. Strání, Důbrava hill (62), 7.vii.1980, 2 ♀♀, PL. Lopeník, Lopenické sedlo (64), 27.vi.2004, 1 ♂ 4 larvae, IM; 25.ix.2004, 9 ♂♂ 5 ♀♀, IM; 24.vii.2005, 3 ♂♂ 2 ♀♀, IM; 3.ix.2005, 6 ♂♂ 3 ♀♀ 3 larvae, PK. Starý Hrozenkov, Hrozenkovské terasy (68), 8.viii.2007, 1 ♂; 22.ix.2007, 2 ♀♀; all IM. Výškovec, Výškovecké Bošačky (69), 27.vi.2004, 2 ♂♂ 3 ♀♀ 1 larva, IM; 25.ix.2004, 5 ♂♂ 11 ♀♀, PK; 24.vii.2005, 1 ♀, PK; 3.ix.2005, 26 ♂♂ 6 ♀♀, PK. Radějov, Holý vrch hill (74), 8.ix.1998, 1 ♂, IM. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 1 ♀, IM & PK; 8.ix.2000, 74 ♂♂ 28 ♀♀, PK. Hrubá Vrbka, football ground (82), 20.ix.2001, 1 ♀, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 3 ♂♂ 3 ♀♀, IM; 20.viii.2002, 1 ♂ 1 ♀, PK. Radějov, Veselka hill (85), 11.vii.1998, 1 ♂, IM. Radějov, Kůtky NR (86), 8.ix.1998, 8 ♂♂ 12 ♀♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 6 ♂♂ 5 ♀♀; 9.–10.ix.2000, 3 ♀♀; all IM. Suchov, Suchovské Mlýny (89), 23.vi.2004, 1 ♀, IM. Suchov, Trnovský Mlýn (90), 1.x.2004, 1 ♀; 1.ix.2005, 25 ♂♂ 5 ♀♀ 11 larvae; all IM. Velká nad Veličkou, towards Javorník (91), 10.vi.1982, 1 ♂ 3 ♀♀, PL. Javorník, Nad Vápenkou NM (94), 7.ix.2002, 1 ♂, IM. Javorník, loampit W of village (95), 7.ix.1998, 1 ♂ 2 ♀♀, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, many ♂♂ ♀♀; 10.ix.2000, 6 ♂♂ 5 ♀♀; all IM. Javorník, Petruchovy Mlýny (97), 23.vi.2004, 1 ♂ 1 ♀ 1 larva; 2.ix.2004, 21 ♂♂ 1 ♀ 2 larvae; 1.x.2004, 1 ♂ 4 ♀♀; 1.ix.2005, 9 ♂♂ 1 ♀; all IM. Nová Lhota, Fojtické Mlýny (98), 7.vii.1980, 1 ♂, PL. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 1 ♀; 9.ix.1998, 1 ♀; both IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 1 ♂ 1 ♀, IM. Javorník, Výzkum hill (103), 10.vi.1982, 1 ♀, PL. Strání, Záhumenice NM (104), 2.vii.2001, 150 ♂♂ 140 ♀♀, IM; 9.viii.2001, 1 ♂ 1 ♀ 2 larvae, PK; 21.ix.2001, 394 ♂♂ 129 ♀♀ 22 larvae, IM. Strání, Javorina NNR (106), 4.vii.2001, 6 ♂♂ 4 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in mesic to wet meadows, pastures and ruderal sites throughout the area. **General distribution:** Palaearctic. **Host plants:** Poaceae (mainly *Festuca* and *Lolium* spp.). **Red List status:** –.

Artianus interstitialis (Germar, 1821)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Poteč, Ploščiny NR (12), 17.viii.2006, 1 ♀, PK. Bylnice, Na Stráži (25), 11.vii.2006, 1 ♂ 1 ♀, IM. Strání, Obecnice hill (60), 9.viii.2001, 1 ♂, PK. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♂, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♂ 1 ♀, IM. Radějov, Žerotín NM (73), 9.viii.2002, 1 ♀, PK. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 2 ♀♀, IM & PK. Hrubá Vrbka, football ground (82), 19.vi.2000, 1 ♀; 28.vii.2001, 2 ♀♀; all IM & PK. Radějov, Kútky NR (86), 11.vii.1998, 1 ♂, IM. Strání, Záhumenice NM (104), 20.vii.2002, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area but quite local; in dry ruderal sites (e.g. abandoned quarries and fields and roadside vegetation) and disturbed dry grassland (e.g. in pastures). **General distribution:** West Palaearctic. **Host plants:** Poaceae (e.g. *Elytrigia repens*). **Red List status:** –.

Athysanus argentarius Metcalf, 1955

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 1 ♀, IM. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 1 ♀ 1 larva, MH. Poteč, Ploščiny NR (12), 1.vi.2002, 2 larvae, IM. Valašské Klobouky, Bílé potoky NR (13), 30.vi.1999, 1 ♂, PK; 11.vii.2006, 1 ♂ 1 ♀, IM; 14.viii.2006, 1 ♀, PK. Nedašov, village (15), 3.vii.1999, 1 ♀, IM. Nedašov, Jalovcová stráň NR (17), 3.vii.1999, 6 ♂♂ 2 ♀♀, IM; 10.ix.1999, 2 ♀♀, IM; 16.viii.2006, 1 ♂, PK. Brumov, Kloboucká street (24), 30.vi.2004, 1 ♂♂ 2 larvae, IM; 28.v.2005, 1 larva, IM; 28.vii.2005, 1 ♂ 1 ♀, PK; 4.ix.2005, 3 ♀♀, PK. Nedašov, Pod Cigánem NM (30), 10.ix.1999, 1 ♀, IM. Suchov, Búrová NNM (43), 13.vii.1998, 1 ♂, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 1 ♀, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 2 ♂♂, IM; 21.vii.2002, 2 ♂♂, IM. Březová, Kalábová NM (58), 4.vii.2001, 1 ♂, IM. Lopeník, U Zvonice NM (63), 27.vi.2004, 1 larva, IM; 24.vii.2005, 3 ♂♂ 1 ♀, IM; 26.vii.–26.viii.2005, 1 ♀, PT, KR; 3.ix.2005, 1 ♀, PK. Lopeník, Lopenické sedlo (64), 24.vii.2005, 1 ♂, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♂, IM. Výškovec, Výškovecké Bošačky (69), 27.vi.2004, 4 larvae, IM; 3.ix.2005, 1 ♀, PK. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 1 ♂ 1 ♀, IM & PK. Hrubá Vrbka, football ground (82), 16.viii.2000, 1 ♀, PK. Radějov, Veselka hill (85), 11.vii.1998, 2 ♂♂, IM. Radějov, Kútky NR (86), 11.vii.1998, 1 ♂ 1 ♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 3 ♀♀, IM. 18.viii.2000, 1 ♀, PK; 9.–10.ix.2000, 1 ♀, IM. Suchov, Suchovské Mlýny (89), 27.vii.2005, 2 ♂♂, IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 1 ♂ 1 larva; 27.vii.2005, 1 ♀; all IM. Javorník, Nad Vápenkou NM (94), 9.vii.1998, 1 ♂, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂; 10.ix.2000, 1 ♀; both IM. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 1 ♀, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 1 ♂, IM. Javorník, Machová NR (102), 9.vii.1998, 2 ♂♂, IM. Strání, Záhumenice NM (104), 2.vii.2001, 1 ♂ 3 larvae, IM & PK; 23.v.2002, 5 larvae, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common among tall grass, e.g. in meadows and non-intensively used pastures throughout the area. **General distribution:** Eurosiberian. **Host plants:** Poaceae (e.g. *Arrhenatherum elatius*, *Calamagrostis* spp., *Elytrigia repens*, *Dactylis glomerata*, *Festuca arundinacea*, *Holcus* spp., *Deschampsia cespitosa*). **Red List status:** –.

***Athysanus quadrum* Boheman, 1845**

(VU)

(Fig. 6)

Published records. LANG (1945a): Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99). **Additional material examined.** Hluk, Babí hora NM (36), 24.viii.2002, 2 ♀♀, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 2 larvae, IM; 13.viii.2001, 1 ♀, PK; 21.ix.2001, 1 ♀, PK; 21.vii.2002, 1 ♀, IM. Lopeník, U Zvonice NM (63), 27.vi.2004, 1 larva, IM; 25.ix.2004, 1 ♀; 24.vii.2005, 6 ♂♂, IM; 26.vii.–26.viii.2005, 1 ♂, PT, KR. Vyškovec, Vyškovecké Bošacky (69), 27.vi.2004, 2 larvae, IM; 24.vii.2005, 1 ♂, PK; 3.ix.2005, 1 ♀, PK. Vyškovec, Pod Hřibovňou NM (70), 19.viii.2004, 1 ♀, PK; 24.vii.2005, 1 ♀, PK; 8.ix.2005, 1 ♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 1 ♀, IM; 19.vi.2000, 2 ♂♂, PK. Javorník, Machová NR (102), 9.vii.1998, 1 ♂, IM. Javorník, Výzkum hill (103), 10.vi.1982, 1 larva, PL.

Distribution and frequency in the Bílé Karpaty PLA: Recorded from the central and south-western parts of the area; relatively frequent there (but usually recorded in low numbers of specimens) in species-rich, dry or intermittently wet grassland. **General distribution:** Eurosiberian. **Host plants:** Unknown. **Red List status:** Vulnerable.

Comments. In the Czech Republic, *A. quadrum* is a relatively widespread but uncommon and local species, occurring usually in open grassland sites on heavy soils, typically ranging from broad-leaved dry grasslands of the *Bromion/Cirsio-Brachypodium* alliances to intermittently wet meadows (*Molinion*) or even peaty sites. Besides the Bílé Karpaty PLA, there are additional, mostly unpublished records also from southern, central and north-western Bohemia (the Šumava Mts. – LAUTERER & NOVOTNÝ 1991, the Blanský les Mts. and the Elbe and Jizera River basins).

***Balcanocerus larvatus* (Herrich-Schäffer, 1837)**

Material examined. Hluk, Babí hora NM (36), 24.viii.2002, 1 ♀, IM. Boršice u Blatnice, Boršický potok brook valley (41), 16.viii.1984, 2 ♀♀, PL. Komňa, Nový Dvůr (53), 21.viii.1984, 1 ♀, PL. Radějov, Žerotín NM (73), 11.vii.1998, 2 ♀♀, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 2 ♂♂, IM. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 3 ♂♂ 3 ♀♀, IM & PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 27.vii.2000, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Perhaps largely restricted to the warm, south-western part of the area; on sunny forest margins and scrub along roads or scattered in dry grassland. **General distribution:** Southern half of Europe. **Host plant:** *Prunus spinosa*. **Red List status:** –.

***Balclutha calamagrostis* Ossiannilsson, 1961**

Published records. LANG (1945a): Korytná, Lipiny forest (38); Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99); Suchá Loz, Studený vrch hill (57). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79). [All cited as “*Balclutha punctata* Thunbg.”, partly misidentified]. **Additional material examined.** Valašské Klobouky, Brumovská street (5), 19.v.1999, 2 ♂♂ 1 ♀; 9.ix.1999, 16 ♂♂ 9 ♀♀; all IM. Valašské Klobouky, U Rybníků (6), 22.v.1999, 1 ♀; 10.ix.1999, 5 ♂♂ 8 ♀♀; all IM. Valašské Klobouky, Javorůvky NR (7), 22.v.1999, 18 ♂♂ 11 ♀♀, IM; 11.ix.1999, 6 ♂♂, IM; 24.viii.2002, 1 ♀, PK. Valašské Klobouky, Dobšená NM (8), 22.v.1999, 6 ♂♂ 1 ♀; 2.vii.1999, 1 ♂; 10.ix.1999, 1 ♂ 9 ♀♀; all IM. Valašské Klobouky, Brumovka brook valley (9), 19.v.1999, 3 ♂♂ 2 ♀♀, IM; 30.vi.1999, 2 ♀♀, MH; 9.ix.1999, 3 ♂♂ 2 ♀♀, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 9 ♂♂ 4 ♀♀, IM. Valašské Klobouky, Královec hill (11), 10.ix.1999, 2 ♂♂ 2 ♀♀, IM. Poteč, Ploštiny NR (12), 1.vi.2002, 45 ♂♂ 38 ♀♀, IM; 24.viii.2002, 24 ♂♂ 21 ♀♀, PK; 17.viii.2006, 3 ♂♂ 6 ♀♀, PK. Valašské Klobouky, Bílé potoky NR (13), 19.v.1999, 3 ♂♂, IM;

9.ix.1999, 1 ♂ 5 ♀♀, IM; 16.vi.2006, 3 ♂♂ 11 ♀♀, IM; 11.vii.2006, 6 ♀♀, IM; 14.viii.2006, 2 ♀♀, PK. Brumov, Uhličky (14), 1.ix.2004, 4 ♂♂ 5 ♀♀; 5.x.2004; 4 ♂♂ 5 ♀♀; 28.v.2005, 6 ♂♂ 2 ♀♀; all IM; 28.vii.2005, 1 ♀; 4.ix.2005, 3 ♂♂ 1 ♀; all PK. Nedašov, village (15), 3.vii.1999, 1 ♀, IM. Nedašov, Jalovcová stráň NR (17), 20.v.1999, 2 ♂♂ 5 ♀♀; 3.vii.1999, 1 ♂; 10.ix.1999, many ♂♂ ♀♀; 30.vi.2004, 1 ♂ 1 ♀; 5.x.2004, 8 ♂♂ 1 ♀; 28.v.2005, 2 ♂♂; 28.vii.2005, 2 ♀♀ 5 larvae; all IM; 25.vi.2002, 4 ♂♂ 1 ♀; 16.viii.2006, 5 ♂♂ 1 ♀; all PK. Nedašov, Kaňoury NM (18), 12.vii.2006, 2 ♀♀, IM; 16.viii.2006, 1 ♀, PK. Brumov, Kloboucká street (24), 2.ix.2004, 3 ♀♀, IM; 28.v.2005, 1 ♀, IM; 4.ix.2005, 1 ♂ 4 ♀♀, PK. Bylnice, railway station environs (27), 21.v.1999, 1 ♀, 11.ix.1999, 2 ♂♂, all IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 10 ♂♂ 6 ♀♀, IM. Nedašov, Pod Cigánem NM (30), 30.vi.2004, 1 ♂; 1.ix.2004, 9 ♂♂ 5 ♀♀; 5.x.2004, 115 ♂♂ 152 ♀♀; 28.v.2005, 25 ♂♂ 10 ♀♀; 28.vii.2005, 1 ♂; 6.ix.2005, 3 ♂♂ 8 ♀♀; all IM. Hluk, Kobylí hlava NM (35), 24.viii.2002, 1 ♂ 1 ♀, IM. Blatnička, Milejovské louky meadows (39), 24.v.2009, 18 ♂♂ ♀♀, PB. Korytná, Břeží (46), 5.vii.2001, 2 ♂♂ 1 ♀, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, 1 ♂ 1 ♀, IM; 13.viii.2001, 1 ♀, PK. Horní Němčí, Vinohradky (49), 30.vi.2001, 1 ♂, IM; 10.ix.2002, 1 ♂ 2 ♀♀, IM. Bánov, Skalky hill (52), 21.viii.1984, 1 ♀, PL. Komňa, Lom Rasová NM (54), 5.vii.2001, 4 ♂♂ 6 ♀♀, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♀, IM & PK. Korytná, Lubná pond environs (56), 5.vii.2001, 1 ♂, IM. Březová, Kalábová NM (58), 4.vii.2001, 1 ♂ 7 ♀♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 5 ♂♂ 7 ♀♀; 10.ix.1998, 2 ♂♂; all IM. Strání, Důbrava hill (62), 7.vii.1980, 1 ♂ 1 ♀, PL. Lopeník, U Zvonice NM (63), 25.ix.2004, 2 ♂♂, IM; 21.v.2005, 1 ♂; 3.ix.2005, 3 ♂♂ 2 ♀♀, PK. Lopeník, Lopenické sedlo (64), 25.ix.2004, 10 ♂♂ 9 ♀♀, IM; 21.v.2005, 1 ♂ 2 ♀♀, IM. Lopeník, Mikulčín vrch hill (65), 24.vii.2005, 3 ♂♂ 3 ♀♀, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♀; 8.viii.2007, 14 ♂♂ 7 ♀♀; 22.ix.2007, 5 ♂♂ 2 ♀♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♀; 8.viii.2007, 1 ♂ 1 ♀; 22.ix.2007, 1 ♂; all IM. Vyškovce, Vyškovecké Bošačky (69), 27.vi.2004, 1 ♂ 2 ♀♀, IM; 19.viii.2004, 2 ♂♂ 2 ♀♀, PK; 25.ix.2004, 4 ♂♂ 10 ♀♀, PK; 21.v.2005, 1 ♀, IM; 3.ix.2005, 2 ♂♂ 4 ♀♀, PK. Vyškovce, Pod Hřibovňou NM (70), 28.vi.2004, 16 ♂♂ 4 ♀♀, IM; 19.viii.2004, 1 ♂ 1 ♀, PK; 25.ix.2004, 1 ♂ 1 ♀, PK; 21.v.2005, 1 ♀, IM; 24.vii.2005, 1 ♂ 1 ♀, PK. Radějov, Holý vrch hill (74), 8.ix.1998, 1 ♀, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, many ♂♂ ♀♀; 28.vii.2000, 1 ♀; 20.ix.2001, 1 ♀; all IM. Kněždub, Čertoryje NNR, Járkovec brook valley (77), 2.vi.2008, 22.vi.2008, 12.viii.2008, 10.ix.2008, 7.vi.2010, many ♂♂ ♀♀, IM, KD & KF. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 13 ♂♂ 20 ♀♀, MT, JM & PC. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 1 ♂, IM & PK. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 2 ♂♂ 1 ♀, IM & PK. Hrubá Vrbka, football ground (82), 19.vi.2000, 1 ♀, IM & PK. Radějov, Měsíční údolí valley (84), 8.ix.1998, 2 ♂♂ 2 ♀♀, IM. Radějov, Veselka hill (85), 11.vii.1998, many ♂♂ ♀♀, IM. Radějov, Kůtky NR (86), 11.vii.1998, 8 ♂♂ 4 ♀♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 1 ♂ 1 ♀, IM. Suchov, Suchovské Mlýny (89), 23.vi.2004, 6 ♂♂ 7 ♀♀; 1.x.2004, 15 ♂♂ 13 ♀♀; 26.v.2005, 1 ♀; 27.vii.2005, 1 larva, IM; 1.ix.2005, 1 ♂ 3 ♀♀; all IM. Suchov, Trnovský Mlýn (90), 1.ix.2005, 2 ♂♂ 1 ♀, IM. Javorník, loampit W of village (95), 24.v.2002, 7 ♂♂ 3 ♀♀, IM. Javorník, Jazevčí NNR (96), 6.v.2000, 1 ♀, IM. Javorník, Petruchovy Mlýny (97), 7.ix.2002, 2 ♂♂; 27.vii.2005, 1 ♀; all IM. Nová Lhota, Fojtické Mlýny (98), 7.vii.1980, 1 ♀, PL. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 6 ♀♀, IM. Strání, Javorina NNR (106), 4.vii.2001, many ♂♂ ♀♀; 29.x.2011, 1 ♀; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in neglected parts of meadows and pastures, ruderal sites and forest glades. **General distribution:** Central and northern Europe. **Host plants:** *Calamagrostis epigejos*, *C. pseudophragmites*. **Red List status:** –.

Balclutha punctata (Fabricius, 1775)

Published records. LANG (1945a): Korytná, Lipiny forest (38); Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99); Suchá Loz, Studený vrch hill (57). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Petrůvka, U Petrůvky NM (3), 6.viii.1999, 1 ♂, PK. Valašské Klobouky, U Rybníků (6), 22.v.1999, 1 ♂ 1 ♀; 10.ix.1999, 1 ♀; all IM. Valašské Klobouky, Javorůvky NR (7), 2.vii.1999, 2 ♂♂ 2 ♀♀, IM. Valašské Klobouky, Dobšená NM (8), 2.vii.1999, 1 ♂ 2 ♀♀, IM. Valašské Klobouky, Brumovka

Leafhoppers and planthoppers (Hemiptera: Auchenorrhyncha)

brook valley (9), 30.vi.1999, 3 ♂♂ 38 ♀♀, MH; 9.ix.1999, 1 ♂ 1 ♀, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 2 ♂♂ 3 ♀♀, IM. Valašské Klobouky, Královec hill (11), 10.ix.1999, 1 ♂ 3 ♀♀, IM. Poteč, Ploštiny NR (12), 17.viii.2006, 3 ♂♂, PK. Valašské Klobouky, Bílé potoky NR (13), 9.ix.1999, 3 ♀♀, IM. Brumov, Uhličky (14), 30.vi.2004, 1 ♂; 28.v.2005, 1 ♀; both IM. Nedašov, Jalovcová stráž NR (17), 20.v.1999, 1 ♂; 6.ix.2005, 4 ♂♂ 6 ♀♀; all IM; 16.viii.2006, 1 ♂, PK. Nedašov, Kaňúr hill and Hrušová dolina valley (19), 20.v.1999, 2 ♂♂ 9 ♀♀, IM. Rokytnice, Bukovina hill (23), 21.viii.1984, 1 ♀, PL. Nedašov, Pod Cigánem NM (30), 30.vi.2004, 1 ♂; 1.ix.2004, 1 ♂ 2 ♀♀; 28.v.2005, 1 ♂ 1 ♀; 28.vii.2005, 1 ♀ 1 larva; all IM. Horní Němčí, Hornoněmčanský háj forest (45), 7.vii.1985, 1 ♂, PL. Horní Němčí, Drahy NR (48), 15.v.1998, 1 ♂, IM. Bánov, Skalky hill (52), 21.viii.1984, 1 ♀, PL. Lopeník, U Zvonice NM (63), 27.vi.2004, 86 ♂♂ 24 ♀♀, IM; 25.ix.2004, 3 ♂♂ 6 ♀♀, IM; 24.vii.2005, 3 ♂♂ 7 ♀♀ 1 larva, IM; 3.ix.2005, 3 ♂♂ 1 ♀, PK. Lopeník, Lopenické sedlo (64), 27.vi.2004, 1 ♀, IM; 3.ix.2005, 4 ♀♀, PK. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 2 ♂♂ 6 ♀♀, IM. Vyškovec, Pod Hřibovňou NM (70), 19.viii.2004, 1 ♀, PK; 8.ix.2005, 4 ♂♂ 2 ♀♀, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂, IM. Kněždub, Čertoryje NNR, Járkovec brook valley (77), 10.ix.2008, 1 ♂ 1 ♀ 1 larva; 7.vi.2010, 1 ♀; all IM. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 1 ♂, IM & PK. Radějov, Měsíční údolí valley (84), 8.ix.1998, 2 ♂♂ 3 ♀♀, IM; 20.viii.2002, 1 ♂, PK. Suchov, Suchovské Mlýny (89), 27.vii.2005, 1 ♀ 1 larva, IM. Suchov, Trnovský Mlýn (90), 1.x.2004, 1 ♂ 2 ♀♀; 27.vii.2005, 1 ♂; 1.ix.2005, 2 ♂♂; all IM. Javorník, loampit W of village (95), 24.v.2002, 1 ♀, IM. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 2 ♂♂; 28.x.2011, 1 ♂; all IM. Strání, Záhumenice NM (104), 8.vi.2001, 1 ♀, PL. Strání, Javorina NNR (106), 29.x.2011, 5 ♂♂ 8 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area but perhaps more frequent and abundant in its relatively cooler north-eastern part and at higher elevations; in meadows and pastures, along forest margins and in forest undergrowth. **General distribution:** Holarctic and Oriental. **Host plants:** Poaceae (e.g. *Avenella flexuosa*, *Agrostis capillaris*, *Calamagrostis epigejos*, *Holcus mollis*). **Red List status:** –.

Balclutha rhenana Wagner, 1939

Material examined. Valašské Klobouky, Královec hill (11), 13.ix.1999, many ♂♂ ♀♀, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 5 ♂♂ 6 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Collected at two isolated sites in the north-eastern and south-western parts of the area in a wet forest glade and in a brook floodplain; perhaps under-recorded. **General distribution:** Eurosiberian. **Host plant:** *Phalaris arundinacea*. **Red List status:** –.

Balclutha saltuella (Kirschbaum, 1868)

Material examined. Horní Němčí, Drahy NR (48), 10.ix.2002, 2 ♂♂, IM. Horní Němčí, Vinohrádky (49), 10.ix.2002, 1 ♂ 2 ♀♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 1 ♀, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♀; 22.ix.2007, 1 ♀; both IM.

Distribution and frequency in the Bílé Karpaty PLA: Recorded in low numbers of specimens from a few sites in the south-western/central parts of the area; in disturbed dry grassland, intensively used cattle pastures and an abandoned quarry. **General distribution:** Southern parts of central Europe, southern Europe, otherwise cosmopolitan. **Host plants:** Probably various Poaceae. **Red List status:** –.

***Batracomorphus allionii* (Turton, 1802)**

(EN)

Published record. LAUTERER (1978): Luhačovice (2).**Additional material examined.** Blatnička, Milejovské louky meadows (39), 11.vii.2009, 1 ♂, PB. Horní Němčí, Drahy NR (48), 13.viii.2001, 1 ♂, PK. Starý Hrozenkov, Skalka quarry (67), 8.viii.2007, 1 ♂, IM. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 12.viii.2008, 1 ♀, KD & KF. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 1 ♂, IM.**Distribution and frequency in the Bílé Karpaty PLA:** Local and rare: recently found in several, quite xerothermic sites in the south-western and central parts of the area: fragments of dry grassland, dry species-rich meadows and at a sunny forest margin in an abandoned quarry. **General distribution:** Eurosiberian. **Host plants:** Woody species of Fabaceae (e.g. *Cytisus scoparius*, *Genista tinctoria*; in the Bílé Karpaty PLA perhaps on *Cytisus nigricans* and/or *Chamaecytisus* spp.). **Red List status:** Endangered.**Comments.** In the Czech Republic, *B. allionii* is a rarely collected species with only three previously published records from eastern and southern Moravia (Luhačovice, Napajedla and Sedlec – LAUTERER 1978). Based on unpublished material from recent field surveys by I. Malenovský, it is present also in the environs of Brno and in north-western Bohemia.***Chlorita paolii* (Ossiannilsson, 1939)****Published records.** MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).**Additional material examined.** Lipová, towards Haluzice (4), 21.viii.1984, 1 ♂, PL. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 1 ♂, IM. Valašské Klobouky, Brumovka brook valley (9), 9.ix.1999, 1 ♂ 1 ♀, IM. Poteč, Ploštiny NR (12), 13.ix.1999, 2 ♀♀, IM; 1.vi.2002, 1 ♂ 2 ♀♀, IM; 17.viii.2006, 1 ♀, PK. Valašské Klobouky, Bílé potoky NR (13), 16.vi.2006, 2 ♀♀. Brumov, Uhličky (14), 30.vi.2004, 1 ♂ 1 ♀; 1.ix.2004, 2 ♂♂ 4 ♀♀; 5.x.2004, 1 ♂ 5 ♀♀; 28.v.2005, 1 ♂; all IM; 28.vii.2005, 6 ♂♂ 3 ♀♀; 4.ix.2005, 4 ♂♂ 8 ♀♀; all PK. Nedašov, Jalovcová stráž NR (17), 10.ix.1999, 4 ♂♂ 2 ♀♀; 1.ix.2004, 3 ♂♂ 10 ♀♀; 5.x.2004, 2 ♂♂ 7 ♀♀, 3 larvae; 28.v.2005, 5 ♂♂ 10 ♀♀; 28.vii.2005, 8 ♂♂ 6 ♀♀ 2 larvae; 6.ix.2005, 8 ♂♂ 11 ♀♀ 2 larvae; 17.vi.2006, 1 ♂; all IM; 16.viii.2006, 1 ♀, PK. Brumov, Kloboucká street (24), 30.vi.2004, 1 ♂ 2 ♀♀; 28.v.2005, 1 ♂; all IM. Bylnice, Na Stráži (25), 16.vi.2006, 3 ♂♂ 6 ♀♀, IM; 11.vii.2006, 5 ♀♀, IM; 18.viii.2006, 1 ♀, PK. Bylnice, railway station environs (27), 21.v.1999, 6 ♂♂ 3 ♀♀; 11.ix.1999, 5 ♂♂ 3 ♀♀; all IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 4 ♂♂ 1 ♀, IM. Nedašov, Pod Cigánem NM (30), 5.x.2004, 1 ♂, IM. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 1 ♂ 1 ♀, IM. Hluk, Babí hora NM (36), 24.viii.2002, 1 ♂, IM. Blatnička, Milejovské louky meadows (39), 11.vii.2009, 3 ♀♀; 16.viii.2009, 2 ♂♂ 2 ♀♀; all PB. Korytná, Břeží (46), 5.vii.2001, 7 ♂♂ 2 ♀♀, IM. Horní Němčí, Drahy NR (48), 13.viii.2001, 2 ♀♀, PK; 21.ix.2001, 1 ♀, PK; 10.ix.2002, 2 ♂♂ 2 ♀♀, IM. Horní Němčí, Vinohrádky (49), 30.vi.2001, 4 ♂♂ 6 ♀♀ 2 larvae, IM; 13.viii.2001, 6 ♂♂ 11 ♀♀ 3 larvae, PK; 21.ix.2001, 6 ♂♂ 6 ♀♀, PK; 20.vii.2002, 5 ♂♂ 8 ♀♀, IM; 10.ix.2002, 49 ♂♂ 38 ♀♀ 1 larva, IM. Bánov, Skalky hill (52), 21.viii.1984, 3 ♂♂, PL. Komňa, Nový Dvůr (53), 21.viii.1984, 1 ♂, PL. Komňa, Lom Rasová NM (54), 5.vii.2001, 2 ♂♂ 1 ♀, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 2 ♂♂ 7 ♀♀, IM & PK. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, many ♂♂ ♀♀, IM. Strání, Obecnice hill (60), 24.v.2001, 9 ♂♂ 6 ♀♀, IM; 2.vii.2001, 4 ♂♂ 3 ♀♀, IM & PK; 9.viii.2001, 7 ♂♂ 17 ♀♀, PK; 21.ix.2001, 15 ♂♂ 7 ♀♀, IM; 23.v.2002, 5 ♂♂, IM; 20.vii.2002, 4 ♂♂ 5 ♀♀, IM; 12.ix.2002, 13 ♂♂ 20 ♀♀, IM. Lopeník, U Zvonice NM (63), 3.ix.2005, 1 ♀, PK. Lopeník, Lopenické sedlo (64), 25.ix.2004, 1 ♂, IM; 24.vii.2005, 1 ♀, IM; 3.ix.2005, 1 ♀, PK. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, many ♂♂ ♀♀; 8.viii.2007, 3 ♂♂ 6 ♀♀; 22.ix.2007, 4 ♂♂ 13 ♀♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 10 ♂♂ 15 ♀♀; 8.viii.2007, 1 ♂; 22.ix.2007, 2 ♂♂ 2 ♀♀; all IM. Vyškovec, Vyškovské Bošačky (69), 27.vi.2004, 3 ♂♂, IM; 19.viii.2004, 7 ♂♂ 8 ♀♀, PK; 25.ix.2004, 9 ♂♂ 7 ♀♀, PK; 21.v.2005, 1 ♂, IM; 24.vii.2005, 3 ♂♂ 1 ♀, PK; 3.ix.2005, 3 ♀♀, PK. Kněždub, Čertoryje NNR, Radějovka brook valley (79),

15.vi.2010, 1 ♂, MT, JM & PC. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 13 ♂♂ 59 ♀♀, IM & PK. Hrubá Vrbka, football ground (82), 19.vi.2000, 2 ♂♂, IM & PK; 16.viii.2000, 3 ♀♀, PK; 20.ix.2001, 2 ♂♂ 2 ♀♀, IM. Radějov, Kútky NR (86), 2.vi.1979, 1 ♀, PL. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 1 ♀; 9.–10.ix.2000, 3 ♂♂ 5 ♀♀; all IM. Suchov, Suchovské Mlýny (89), 18.viii.2004, 3 ♂♂ 6 ♀♀, PK; 1.x.2004, 18 ♂♂ 19 ♀♀ 1 larva, IM; 26.v.2005, 10 ♂♂ 7 ♀♀, IM; 27.vii.2005, 5 ♂♂ 9 ♀♀, IM; 1.ix.2005, 3 ♂♂ 6 ♀♀ 2 larvae, IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 3 ♀♀, IM; 16.viii.2004, 8 ♂♂ 9 ♀♀, PK; 1.x.2004, 21 ♂♂ 17 ♀♀ 1 larva, IM; 26.v.2005, 6 ♂♂ 4 ♀♀, IM; 27.vii.2005, 4 ♂♂ 9 ♀♀, IM; 1.ix.2005, 3 ♂♂ 8 ♀♀ 1 larva, IM. Velká nad Veličkou, towards Javorník (91), 10.vi.1982, 2 ♀♀, PL. Javorník, village (92), 8.viii.2001, 1 ♀, PK. Javorník, Nad Vápenkou NM (94), 7.ix.2002, 4 ♂♂ 2 ♀♀, IM. Javorník, loampit W of village (95), 24.v.2002, 2 ♂♂ 1 ♀, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 2 ♀♀; 10.ix.2000, 21 ♂♂ ♀♀; all IM. Javorník, Petruchovy Mlýny (97), 23.vi.2004, 16 ♂♂ 20 ♀♀; 2.ix.2004, 46 ♂♂ 43 ♀♀ 24 larvae; 1.x.2004, 4 ♂♂ 15 ♀♀ 1 larva; 26.v.2005, 9 ♂♂ 9 ♀♀; 27.vii.2005, 14 ♂♂ 19 ♀♀ 3 larvae; 1.ix.2005, 13 ♂♂ 9 ♀♀ 2 larvae; all IM. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 1 ♀, IM. Strání, Záhumenice NM (104), 24.v.2001, 8 ♂♂ 9 ♀♀ 5 larvae, IM; 8.vi.2001, 2 ♂♂ 2 ♀♀, PL; 2.vii.2001, 6 ♂♂ 7 ♀♀, IM & PK; 9.viii.2001, 12 ♂♂ 8 ♀♀, PK; 21.ix.2001, 6 ♂♂ 7 ♀♀, IM. Strání, Javorina NNR (106), 4.vii.2001, 2 ♂♂ 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in pastures, meadows and ruderal sites throughout the area from the lowest to the highest elevations. **General distribution:** Western Palaearctic, Kazakhstan. **Host plants:** *Achillea millefolium* agg., *Artemisia* spp. **Red List status:** –.

Cicadella viridis (Linnaeus, 1758)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, U Rybníků (6), 10.ix.1999, 2 ♀♀, IM. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 5 ♀♀, IM; 24.viii.2002, 1 ♀, PK. Valašské Klobouky, Dobšená NM (8), 10.ix.1999, 2 ♀♀, IM. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 3 ♂♂, MH; 9.ix.1999, 6 ♂♂, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 1 ♂ 2 ♀♀, IM. Poteč, Ploštiny NR (12), 4.vii.1999, 1 larva, IM; 1.vi.2002, 3 larvae, IM; 17.viii.2006, 1 ♂ 1 ♀, PK. Valašské Klobouky, Bílý potok NR (13), 9.ix.1999, 1 ♂ 1 ♀, IM; 11.vii.2006, 5 ♂♂ 1 ♀, IM; 14.viii.2006, 2 ♂♂, PK. Brumov, Uhlíčky (14), 30.vi.2004, 5 ♂♂ 5 ♀♀ 3 larvae; 1.ix.2004, 1 ♂ 2 larvae; 5.x.2004, 3 ♂♂ 1 ♀; all IM; 28.vii.2005, 1 larva; 4.ix.2005, 5 ♂♂ 2 ♀♀ 2 larvae; all PK. Nedašov, village (15), 3.vii.1999, 1 ♀, IM. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 4 ♂♂; 10.ix.1999, 3 ♂♂ 3 ♀♀; 30.vi.2004, 2 larvae; 5.x.2004, 1 ♂; 28.v.2005, 2 larvae; 28.vii.2005, 1 ♂ 1 ♀; 6.ix.2005, 1 ♂ 1 larva; 12.vii.2006, 1 ♀; all IM; 25.vi.2002, 1 ♀; 16.viii.2006, 1 ♂ 2 ♀♀; all PK. Rokytnice, Bukovina hill (23), 21.viii.1984, 2 ♀♀, PL. Brumov, Kloboucká street (24), 30.vi.2004, 1 ♂, IM; 2.ix.2004, 1 larva, IM; 4.ix.2005, 1 larva, PK. Bylnice, railway station environs (27), 11.ix.1999, 7 ♂♂ 3 ♀♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 1.vii.1999, 1 ♂ 1 ♀, PK. Nedašov, Pod Cigánem NM (30), 30.vi.2004, 1 larva; 1.ix.2004, 2 larvae; 5.x.2004, 1 ♀ 3 larvae; 28.v.2005, 3 larvae; 28.vii.2005, 2 ♂♂ 3 ♀♀; 6.ix.2005, 1 ♂; all IM. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 4 ♂♂, IM. Blatnička, Milejovské louky meadows (39), 16.viii.2009, 1 ♂, PB. Hluk, Kobylí hlava NM (35), 24.viii.2002, 1 ♂ 1 ♀, IM. Korytná, Březí (46), 5.vii.2001, 4 ♂♂, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, 1 ♀; 30.vi.2001, 3 ♂♂ 3 ♀♀; all IM; 21.ix.2001, 3 ♂♂ 1 ♀, PK; 23.v.2002, 2 larvae, IM & PK; 21.vii.2002, 1 ♂ 1 larva, IM; 10.ix.2002, 7 ♂♂ 2 ♀♀, IM. Komňa, Lom Rasová NM (54), 5.vii.2001, 1 ♂ 1 ♀ 1 larva, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♀, IM & PK. Březová, Kalábová NM (58), 4.vii.2001, 2 ♂♂, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 1 ♀, IM. Strání, Obecnice hill (60), 12.ix.2002, 1 ♀, IM. Lopeník, U Zvonice NM (63), 27.vi.2004, 1 larva, IM; 18.viii.2004, 2 ♂♂ 1 ♀, PK; 25.ix.2004, 1 ♀, IM; 24.vii.2005, 1 ♂, IM; 3.ix.2005, 3 ♀♀ 4 larvae, PK. Lopeník, Lopenické sedlo (64), 25.ix.2004, 1 ♂, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 4 ♀♀; 8.viii.2007, 1 ♂; 22.ix.2007, 1 ♂ 2 ♀♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 2 ♀♀; 8.viii.2007, 4 ♀♀; 22.ix.2007, 2 ♂♂; all IM. Vyškovec, Vyškovcecké Bošačky (69), 27.vi.2004, 4 ♂♂ 2 ♀♀ 4 larvae, IM; 19.viii.2004, 2 ♀♀ 8 larvae, PK; 25.ix.2004, 16 ♂♂ 11 ♀♀ 14 larvae, PK; 21.v.2005, 1 larva, IM; 3.ix.2005, 3 ♂♂ 10 larvae, PK. Vyškovec, Pod Hřibovnou NM (70), 28.vi.2004, 1 ♂ 4 larvae, IM; 19.viii.2004, 1 ♀, PK; 25.ix.2004, 1 ♂ 3

larvae, PK; 24.vii.2005, 1 ♂, PK. Radějov, Žerotín NM (73), 11.vii.1998, 1 ♀, IM; 9.viii.2002, 1 ♀, PK. Radějov, Holý vrch hill (74), 8.ix.1998, 1 ♂, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♀; 28.vii.2000, 1 ♂; both IM; 17.viii.2000, 1 ♀, PK; 20.ix.2001, 1 ♀, IM. Malá Vrbka, Výzkum hill (80), 8.ix.2000, 2 ♂♂ 3 ♀♀, PK. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♀, IM; 20.viii.2002, 2 ♂♂, PK. Radějov, Veselka hill (85), 11.vii.1998, 2 ♂♂, IM. Radějov, Kútky NR (86), 11.vii.1998, 2 ♂♂; 8.ix.1998, many ♂♂ ♀♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 1 ♀, IM. Suchov, Suchové Mlýny (89), 18.viii.2004, 1 ♂ 1 larva, PK; 1.x.2004, 7 ♂♂ 5 ♀♀, IM; 26.v.2005, 3 larvae, IM; 1.ix.2005, 1 ♂ 1 ♀ 7 larvae, IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 1 ♂ 1 larva; 1.x.2004, 1 ♂; all IM. Javorník, Nad Vápenkou NM (94), 7.ix.2002, 2 ♂♂ 1 ♀, IM. Javorník, loampit W of village (95), 7.ix.1998, 1 ♀, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 2 ♂♂ 1 ♀; 10.ix.2000, 3 ♂♂ 1 ♀; all IM. Javorník, Petruchovy Mlýny (97), 2.ix.2004, 1 ♂ 1 larva; 1.x.2004, 1 ♀; 1.ix.2005, 1 ♂; all IM. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 1 ♂; 9.ix.1998, several ♂♂ ♀♀; all IM. Javorník, Machová NR (102), 9.vii.1998, several ♂♂ ♀♀, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 1 ♂, IM. Strání, Záhumenice NM (104), 2.vii.2001, 1 ♀, PK.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; particularly abundant in spring fens, wet meadows and on shores of water but present also in mesic to dry grassland habitats. **General distribution:** Palearctic. **Host plants:** Polyphagous on Juncaceae, Cyperaceae and Poaceae. **Red List status:** –.

Cicadula (Cicadula) albingensis Wagner, 1940

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 6 ♂♂, IM. Valašské Klobouky, Bílé potoky NR (13), 9.ix.1999, 1 ♂, IM. Bylnice, railway station environs (27), 11.ix.1999, 2 ♂♂, IM. Březová, Kalábová NM (58), 4.vii.2001, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area but quite local; in large spring fens and wet depressions. **General distribution:** Eurosiberian. **Host plant:** *Scirpus sylvaticus*. **Red List status:** –.

Cicadula (Cicadula) flori (J. Sahlberg, 1871) (NT)

Material examined. Nová Lhota, Fojtické Mlýny (98), 7.vii.1980, 1 ♂, PL.

Distribution and frequency in the Bílé Karpaty PLA: There was only one finding in the south-western part of the area; the species has not been recollected in recent years. **General distribution:** Eurosiberian. **Host plants:** *Carex* spp. (mainly *C. acuta*). **Red List status:** Near-threatened.

Comments. In the Czech Republic, *C. flori* is widespread and locally common in tall-sedge fens and on shores of water e.g. in the Pannonian part of southern Moravia, the Bohemian-Moravian Highland and central Bohemia (DLABOLA 1954, LAUTERER 1986, MALENOVSKÝ 2006).

Cicadula (Cicadula) persimilis (Edwards, 1920)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79). KMENT & MALENOVSKÝ (2008): Strání, Záhumenice NM (104).

Additional material examined. Petrůvka, U Petrůvky NM (3), 6.viii.1999, 1 ♂, PK. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 1 ♂, IM. Valašské Klobouky, Javorůvky NR (7), 2.vii.1999, 5 ♂♂ 1 ♀; 11.ix.1999, 28 ♂♂; all IM. Valašské Klobouky, Dobšená NM (8), 2.vii.1999, 1 ♂ 4 ♀♀; 10.ix.1999, 5 ♂♂ 2 ♀♀; all IM. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 3 ♂♂, MH; 9.ix.1999, 18 ♂♂, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 1 ♂, IM. Valašské Klobouky, Královec hill (11), 10.ix.1999, 1 ♂, IM. Poteč, Ploštiny NR (12), 13.ix.1999, 11 ♂♂ 4 ♀♀, IM; 1.vi.2002, 4 ♂♂ 7 ♀♀ 15 larvae, IM; 24.viii.2002, 8 ♂♂ 3 ♀♀ 2 larvae, PK; 17.viii.2006, 3 ♂♂, PK. Valašské Klobouky, Bílé potoky NR (13), 30.vi.1999, 4 ♂♂ 3 ♀♀, PK; 9.ix.1999, 6 ♂♂ 4 ♀♀, IM; 23.viii.2002, 1 ♂ 2 ♀♀, PK; 16.vi.2006, 4 ♂♂ 1 ♀, IM; 11.vii.2006, 10 ♂♂ 4 ♀♀, IM. Brumov, Uhličky (14), 30.vi.2004, 4 ♂♂ 3 ♀♀ 2 larvae; 1.ix.2004, 19 ♂♂ 5 ♀♀ 1 larva; 5.x.2004, 3 ♂♂ 4 ♀♀; 28.v.2005, 23 larvae; all IM; 28.vii.2005, 1 ♀; 4.ix.2005, 4 ♂♂ 2 ♀♀; all PK. Nedašov, village (15), 3.vii.1999, ? 1 ♀, IM. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 1 ♀; 10.ix.1999, 7 ♂♂ 1 ♀; all IM. Nedašov, Kaňoury NM (18), 16.viii.2006, 1 ♂, PK. Brumov, Kloboucká street (24), 4.ix.2005, 2 ♂♂ 2 ♀♀ 1 larva, PK. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 28 ♂♂, IM. Nedašov, Na Salaši (29), 10.ix.1999, 1 ♂, IM. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 1 larva; 5.x.2004, 4 ♀♀; 6.ix.2005, 1 ♂ 1 larva; all IM. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 5 ♂♂, IM. Hluk, Babí hora NM (36), 24.viii.2002, 1 ♂, IM. Blatnička, Milejovské louky meadows (39), 24.v.2009, 6 ♂♂, PB. Korytná, Březi (46), 5.vii.2001, 10 ♂♂ 5 ♀♀, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 7 ♂♂ 1 ♀, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 1 ♂ 4 ♀♀, IM; 21.ix.2001, 1 ♂ 1 ♀, PK; 23.v.2002, 1 larva, IM; 21.vii.2002, 4 larvae, IM; 10.ix.2002, 1 ♂ 1 ♀, IM. Horní Němčí, Vinohrádky (49), 30.vi.2001, 2 ♂♂ 4 ♀♀, IM; 13.viii.2001, 1 larva, PK; 21.ix.2001, 2 ♀♀, PK; 23.v.2002, 2 larvae, IM & PK; 20.vii.2002, 1 ♂ 3 larvae, IM; 10.ix.2002, 3 ♂♂ 7 ♀♀, IM; 24.vii.–22.viii.2003, 1 larva, PT, KR. Komňa, Nový Dvůr (53), 21.viii.1984, 2 ♂♂, PL. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♂; 10.ix.1998, 3 ♂♂; all IM. Strání, Obecnice hill (60), 21.ix.2001, 1 ♂; 12.ix.2002, 1 ♀; both IM. Lopeník, U Zvonice NM (63), 27.vi.2004, 1 larva, IM; 25.ix.2004, 1 ♂, IM; 3.ix.2005, 1 ♂ 7 larvae, PK. Lopeník, Lopenické sedlo (64), 27.vi.2004, 2 larvae; 25.ix.2004, 1 ♂; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 3 ♀♀; 8.viii.2007, 1 ♂; 22.ix.2007, 12 ♂♂ 13 ♀♀; all IM. Vyškovec, Vyškovské Bošačky (69), 27.vi.2004, 2 ♀♀ 2 larvae, IM; 19.viii.2004, 1 ♀, PK; 25.ix.2004, 18 ♂♂ 15 ♀♀ 1 larva, PK; 21.v.2005, 1 larva, IM; 3.ix.2005, 12 ♂♂ 12 ♀♀ 8 larvae, PK. Vyškovec, Pod Hřibovňou NM (70), 28.vi.2004, 9 ♂♂ 1 ♀ 10 larvae, IM; 25.ix.2004, 6 ♂♂ 6 ♀♀ 2 larvae, PK; 8.ix.2005, 2 ♂♂ 2 ♀♀ 59 larvae, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 3 ♂♂, IM. Radějov, Kůtky NR (86), 11.vii.1998, 1 ♂; 8.ix.1998, 2 ♂♂; all IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 1 ♂; 9.–10.ix.2000, 1 ♂; both IM. Suchov, Suchovské Mlýny (89), 23.vi.2004, 1 ♂ 1 ♀; 1.x.2004, 1 ♂; all IM. Suchov, Trnovský Mlýn (90), 1.ix.2005, 1 ♂, IM. Javorník, Nad Vápenkou NM (94), 7.ix.2002, 2 ♂♂, IM. Javorník, Jazeví NNR (96), 19.vi.2000, 20 ♂♂; 10.ix.2000, 7 ♂♂; all IM. Javorník, Petruchovy Mlýny (97), 23.vi.2004, 1 ♂; 2.ix.2004, 15 ♂♂ 1 ♀ 2 larvae; 1.x.2004, 1 ♀; 26.v.2005, 2 larvae; 1.ix.2005, 2 ♂♂ 2 larvae; all IM. Nová Lhota, Fojtické Mlýny (98), 7.vii.1980, 6 ♂♂ 3 ♀♀, PL. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 10 ♂♂ 3 ♀♀, IM. Strání, Záhumenice NM (104), 2.vii.2001, 19 ♂♂ 26 ♀♀ 6 larvae, IM & PK; 9.viii.2001, 1 ♂ 1 ♀, 21 larvae, PK; 21.ix.2001, 136 ♂♂ 63 ♀♀ 18 larvae, IM. Strání, Javorina NNR (106), 4.vii.2001, 10 ♂♂ 10 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; in mesic to wet meadows and pastures from the lowest to the highest elevations. **General distribution:** Eurosiberian. **Host plant:** *Dactylis glomerata*. **Red List status:** –.

Cicadula (Cicadula) quadrinotata (Fabricius, 1794)

Published records. LANG (1945a): Březová, Kalábová NM (58). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 13 ♂♂, IM; 24.viii.2002, 1 ♂, PK. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 1 ♂, MH; 9.ix.1999, 9 ♂♂, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 1 ♂, IM. Valašské Klobouky, Královec hill (11), 10.ix.1999, 1 ♂, IM. Poteč, Ploštiny NR (12), 17.viii.2006, 2 ♂♂, PK. Brumov, Uhličky (14), 30.vi.2004, 3 ♂♂, IM. Bylnice,

railway station environs (27), 11.ix.1999, 7 ♂♂, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 1 ♂, IM. Nedašov, Na Salaši (29), 10.ix.1999, 1 ♂, IM. Blatnička, Milejovské louky meadows (39), 24.v.2009, 2 ♂♂, PB. Horní Němčí, Drahy NR (48), 10.ix.2002, 3 ♂♂ 3 ♀♀, IM. Horní Němčí, Hornoněmčanský háj forest (45), 7.vii.1985, 3 ♂♂ 1 ♀, PL. Březová, Kalábová NM (58), 4.vii.2001, 1 ♂, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♂ 3 ♀♀; 10.ix.1998, 4 ♂♂; all IM. Lopeník, Lopenické sedlo (64), 25.ix.2004, 2 ♂♂ 5 ♀♀, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 22.ix.2007, 1 ♂, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 4 ♂♂, IM. Radějov, Kútky NR (86), 11.vii.1998, 1 ♂; 8.ix.1998, 25 ♂♂; all IM. Suchov, Suchovské Mlýny (89), 1.x.2004, 1 ♂, IM. Suchov, Trnovský Mlýn (90), 1.x.2004, 1 ♂, IM. Javorník, loampit W of village (95), 24.v.2002, 4 ♂♂, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 18 ♂♂; 10.ix.2000, 8 ♂♂; all IM. Javorník, Petruchovy Mlýny (97), 23.ix.2001, 2 ♂♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in wet meadows and spring fens throughout the area. **General distribution:** Eurosiberian. **Host plants:** *Carex* spp. **Red List status:** –.

Colladonus torneellus (Zetterstedt, 1828)

Published records. MALENOVSKÝ & LAUTERER (2010): Valašské Klobouky, Bílé potoky NR (13).

Distribution and frequency in the Bílé Karpaty PLA: Known from only one site in the north-eastern part of the area, collected there in a spruce forest undergrowth. **General distribution:** Holarctic. **Host plants:** Unknown, perhaps polyphagous on Poaceae and Cyperaceae (e.g. *Carex brizoides*) and deciduous shrubs. **Red List status:** –.

Conosanus obsoletus (Kirschbaum, 1858)

Published records. LANG (1945a): Suchá Loz, Studený vrch hill (57); Březová, Kalábová NM (58). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Brumovka brook valley (9), 9.ix.1999, 1 ♀, IM. Nedašov, Jalovcová stráň NR (17), 3.vii.1999, 1 ♂, IM; 10.ix.1999, 1 ♀, IM; 16.viii.2006, 1 ♀, PK. Nedašov, Na Salaši (29), 3.vii.1999, 1 ♂, IM. Radějov, Kútky NR (86), 11.vii.1998, 9 ♂♂ 3 ♀♀; 8.ix.1998, 2 ♀♀; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area but quite local in spring fens and wet depressions. **General distribution:** Holarctic. **Host plants:** *Juncus* spp. and tall Poaceae (e.g. *Festuca arundinacea*). **Red List status:** –.

Cosmotettix caudatus (Flor, 1861)

(EN)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Radějovka brook valley (79).

Distribution and frequency in the Bílé Karpaty PLA: Known only from one site in the south-western part of the area: a disturbed wet depression in the Radějovka brook floodplain. **General distribution:** Northern half of Europe, Siberia. **Host plant:** *Carex hirta*. **Red List status:** Endangered.

Comments. In the Czech Republic, *C. caudatus* is a sporadic species, with altogether only three records, all from south-eastern Moravia (LAUTERER 1980, MALENOVSKÝ *et al.* 2011).

***Deltocephalus pulicaris* (Fallén, 1806)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79). KMENT & MALENOVSKÝ (2008): Lopeník, Lopenické sedlo (64); Strání, Záhumenice NM (104).

Additional material examined. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 6 ♂♂ 5 ♀♀, IM. Valašské Klobouky, U Rybníků (6), 10.ix.1999, 1 ♂ 2 ♀♀, IM. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 2 ♂♂ 2 ♀♀, IM; 24.viii.2002, 1 ♂, PK. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 1 ♂, MH; 9.ix.1999, 6 ♂♂ 1 ♀, IM. Poteč, Ploštiny NR (12), 13.ix.1999, 9 ♂♂ 5 ♀♀, IM; 1.vi.2002, 263 ♂♂ 105 ♀♀ 48 larvae, IM; 24.viii.2002, 133 ♂♂ 41 ♀♀, PK; 17.viii.2006, 4 ♂♂ 5 ♀♀, PK. Brumov, Uhličky (14), 30.vi.2004, 10 ♂♂ 2 ♀♀; 1.ix.2004, 1 ♂ 1 ♀; 5.x.2004, 1 ♀; all IM; 4.ix.2005, 2 ♂♂, PK. Nedašov, Jalovcová stráň NR (17), 10.ix.1999, 3 ♂♂ 1 ♀; 6.ix.2005, 22 ♂♂ 6 ♀♀; all IM. Bylnice, Bylničky (26), 24.vi.1982, 2 ♂♂ 7 ♀♀, PL. Bylnice, railway station environs (27), 11.ix.1999, 5 ♂♂ 1 ♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 3 ♂♂ 1 ♀, IM. Nedašov, Pod Cigánem NM (30), 30.vi.2004, 6 ♂♂ 1 ♀; 1.ix.2004, 42 ♂♂ 21 ♀♀ 38 larvae; 5.x.2004, 9 ♂♂ 14 ♀♀ 7 larvae; 28.v.2005, 26 ♂♂ 27 ♀♀ 1 larva; 28.vii.2005, 1 ♀; 6.ix.2005, 15 ♂♂ 1 ♀; all IM. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 1 ♀, IM. Korytná, Březi (46), 5.vii.2001, 6 ♂♂ 9 ♀♀, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 1 ♂ 1 ♀, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 1 ♂, IM; 21.ix.2001, 1 ♀, PK. Horní Němčí, Vinohrádky (49), 30.vi.2001, 19 ♂♂ 12 ♀♀, IM; 13.viii.2001, 23 ♂♂ 12 ♀♀ 9 larvae, PK; 21.ix.2001, 4 ♂♂ 9 ♀♀ 4 larvae, PK; 23.v.2002, 2 ♂♂ 3 larvae, IM & PK; 20.vii.2002, 28 ♂♂ 12 ♀♀ 22 larvae, IM; 10.ix.2002, 49 ♂♂ 35 ♀♀ 47 larvae, IM. Komňa, Lom Rasová NM (54), 5.vii.2001, 1 ♀, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♀, IM & PK. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 3 ♂♂, IM. Strání, Obecnice hill (60), 2.vii.2001, 1 ♂ 6 ♀♀, IM & PK; 9.viii.2001, 2 ♂♂, PK; 21.ix.2001, 4 ♂♂ 3 ♀♀, IM; 23.v.2002, 2 ♂♂ 1 larva, IM; 20.vii.2002, 11 ♂♂ 6 ♀♀ 5 larvae, IM; 12.ix.2002, 10 ♂♂ 16 ♀♀ 7 larvae, IM. Lopeník, Lopenické sedlo (64), 27.vi.2004, 570 ♂♂ 277 ♀♀ 341 larvae, IM; 25.ix.2004, 149 ♂♂ 103 ♀♀ 11 larvae, IM; 24.vii.2005, 62 ♂♂ 77 ♀♀ 1 larva, IM; 3.ix.2005, 576 ♂♂ 214 ♀♀ 181 larvae, PK. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♂ 4 ♀♀; 8.viii.2007, 10 ♂♂ 2 ♀♀; 22.ix.2007, 2 ♂♂ 1 ♀; all IM. Vyškovec, Vyškovské Bošačky (69), 27.vi.2004, 49 ♂♂ 56 ♀♀ 3 larvae, IM; 19.viii.2004, 21 ♂♂ 9 ♀♀ 3 larvae, PK; 25.ix.2004, 52 ♂♂ 104 ♀♀ 3 larvae, PK; 21.v.2005, 1 larva, IM; 24.vii.2005, 4 ♀♀, PK; 3.ix.2005, 108 ♂♂ 68 ♀♀ 5 larvae, PK. Vyškovec, Pod Hřibovňou NM (70), 25.ix.2004, 2 ♂♂ 8 ♀♀ 1 larva, PK; 8.ix.2005, 1 ♂, IM. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 20 ♂♂ 5 ♀♀, IM & PK. Radějov, Měsíční údolí valley (84), 8.ix.1998, 15 ♂♂ 2 ♀♀, IM. Radějov, Veselka hill (85), 11.vii.1998, 2 ♂♂ 4 ♀♀, IM. Radějov, Kútky NR (86), 2.vi.1979, 4 ♂♂, PL; 8.ix.1998, 5 ♂♂ 9 ♀♀, IM. Suchov, Suchovské Mlýny (89), 18.viii.2004, 2 ♂♂ 1 ♀, PK; 1.x.2004, 5 ♂♂ 6 ♀♀, IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 31 ♂♂ 17 ♀♀, IM; 16.viii.2004, 57 ♂♂ 11 ♀♀ 2 larvae, PK; 1.x.2004, 19 ♂♂ 108 ♀♀ 5 larvae, IM; 26.v.2005, 3 larvae, IM; 27.vii.2005, 11 ♂♂ 27 ♀♀ 2 larvae, IM; 1.ix.2005, 242 ♂♂ 89 ♀♀ 6 larvae, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♀, IM. Javorník, Petruchovy Mlýny (97), 23.vi.2004, 9 ♂♂ 4 ♀♀; 2.ix.2004, 26 ♂♂ 9 ♀♀ 1 larva; 1.x.2004, 2 ♂♂ 10 ♀♀; 26.v.2005, 2 larvae; 27.vii.2005, 10 ♂♂ 1 ♀ 2 larvae; 1.ix.2005, 2 ♂♂ 2 ♀♀; all IM. Strání, Záhumenice NM (104), 2.vii.2001, 51 ♂♂ 48 ♀♀, IM; 9.viii.2001, 3 ♂♂ 2 ♀♀ 2 larvae, PK; 21.ix.2001, 60 ♂♂ 53 ♀♀ 3 larvae, IM. Strání, Javorina NNR (106), 4.vii.2001, 3 ♂♂ 4 ♀♀; 29.x.2011, 1 ♂ 4 ♀♀; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in grasslands throughout the area including the highest elevations; particularly abundant in pastures. **General distribution:** Holarctic. **Host plants:** Poaceae (e.g. *Agrostis* spp., *Poa* spp., *Dactylis glomerata*, *Elytrigia repens*, *Lolium perenne*). **Red List status:** –.

***Dikraneura variata* Hardy, 1850**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Nedašov, Jalovcová stráň NR (17), 3.vii.1999, 1 ♂; 10.ix.1999, 1 ♂; both IM. Nedašov, Pod Cigánem NM (30), 30.vi.2004, 1 ♂; 5.x.2004, 2 ♂♂ 1 ♀; 28.vii.2005, 1 ♂ 5 ♀♀ 2 larvae; 6.ix.2005, 1 ♀; all IM. Korytná, Březi (46), 5.vii.2001, 1 ♂ 1 ♀, IM. Malá Vrbka, Výzkum hill (80), 20.ix.2001, 1 ♀, IM & PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 18.iv.2000, 1 ♂ 1 ♀; 9.–10.ix.2000, 2 ♂♂

3 ♀♀; all IM. Suchov, Trnovský Mlýn (90), 27.vii.2005, 1 ♂ 5 ♀♀; 1.ix.2005, 2 ♀♀ 1 larva; all IM. Javorník, Nad Vápenkou NM (94), 7.ix.1998, 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, even if quite local; mainly in fragments of dry grassland and in half-shaded places under solitary oaks in meadows and pastures. **General distribution:** Holarctic. **Host plants:** *Avenella flexuosa* and fine-leaved *Festuca* spp. **Red List status:** –.

Diplocolenus bohemani (Zetterstedt, 1840)

Published records. LANG (1945a): Korytná, Lipiny forest (38); Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Nedašov, Kaňoury NM (18), 17.vi.2006, 3 ♂♂ 1 ♀; 12.vii.2006, 1 ♂; all IM. Kněždub, Kněždubský háj forest (75), 28.vii.2000, 2 ♀♀, IM. Kněždub, Čertoryje NNR (77, 79), 19.vi.1980, 8 ♂♂ 7 ♀♀, PL; 22.v.2000, 1 ♂, PK. Suchov, Suchovské Mlýny (89), 26.v.2005, 2 ♂♂ 1 ♀ 2 larvae, IM.

Distribution and frequency in the Bílé Karpaty PLA: Recorded from a few sunny, species-rich meadows mainly in the south-western part of the area with one isolated locality in its north-easternmost tip. **General distribution:** Eurosiberian. **Host plants:** Poaceae (*Calamagrostis* spp., *Bromus erectus*). **Red List status:** –.

Doratura exilis Horváth, 1903

(VU)

Published records. LANG (1945a): Suchá Loz, Studený vrch hill (57).

Distribution and frequency in the Bílé Karpaty PLA: Known from only one specimen (a brachypterous female) collected in 1944 in the central part of the area; not re-collected in recent years and perhaps extinct. **General distribution:** Europe, western Siberia, Kazakhstan. **Host plants:** *Festuca ovina*-group. **Red List status:** Vulnerable.

Comments. In the Czech Republic, *D. exilis* is a local species confined to narrow-leaved dry grasslands (e.g. DLABOLA 1954). It may have declined in many regions in recent decades, including the Bílé Karpaty PLA.

Doratura homophyla (Flor, 1861)

Material examined. Bylnice, railway station environs (27), 11.ix.1999, 1 ♂ 1 ♀, IM. Korytná, Břeží (46), 5.vii.2001, 1 ♂ 2 ♀♀, IM. Horní Němčí, Vinohrádky (49), 30.vi.2001, 6 ♂♂ 6 ♀♀ 5 larvae, IM; 13.viii.2001, 3 ♂♂ 1 ♀ 4 larvae, PK; 21.ix.2001, 1 ♂, PK; 23.v.2002, 1 larva, IM & PK; 22.viii.–27.ix.2003, 1 ♂, PT, KR. Strání, Obecnice hill (60), 2.vii.2001, 1 ♂ 2 ♀♀ 4 larvae, IM & PK; 21.ix.2001, 2 ♂♂, IM. Lopeník, Lopenické sedlo (64), 24.vii.2005, 2 ♂♂, IM. Starý Hrozenkov, Skalka quarry (67), 8.viii.2007, 1 ♂ 1 ♀, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 3 ♀♀; 8.viii.2007, 4 ♂♂ 3 ♀♀; all IM. Výskovec, Výskovecké Bošačky (69), 27.vi.2004, 3 ♂♂ 1 ♀ 2 larvae, IM. Kněždub, Čertoryje NNR, Járkovec brook valley (77), 22.vi.2008, 1 ♀, KD & KF. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 58 ♂♂ 28 ♀♀ 19 larvae, IM & PK. Hrubá Vrbka, football ground (82), 19.vi.2000, 2 ♂♂ 4 ♀♀, IM & PK; 16.viii.2000, 8 ♂♂ 7 ♀♀, PK; 20.ix.2001, 1 ♀, IM. Radějov, Veselka hill (85), 11.vii.1998, 1 ♀, IM. Radějov, Kútky NR (86), 11.vii.1998, 6 ♂♂ 6 ♀♀, IM. Strání, Javorina NNR (106), 4.vii.2001, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and locally common in pastures and ruderal grassland throughout the area. **General distribution:**

Palearctic. **Host plants:** Poaceae (e.g. *Agrostis capillaris*, *Elytrigia repens*, *Festuca rubra*, *Poa compressa*). **Red List status:** –.

Doratura stylata (Boheman, 1847)

Published records. LANG (1945a): Korytná, Lipiny forest (38); Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99); Suchá Loz, Studený vrch hill (57). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79). KMENT & MALENOVSKÝ (2008): Lopeník, Lopenické sedlo (64).

Additional material examined. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 2 ♂♂ 1 ♀, IM. Poteč, Ploščiny NR (12), 13.ix.1999, 1 ♂ 1 ♀, IM; 1.vi.2002, 1 ♂ 2 larvae, IM; 24.viii.2002, 3 ♂♂ 2 ♀♀, IM; 17.viii.2006, 4 ♂♂ 8 ♀♀, PK. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 6 ♂♂ 1 ♀, IM. Brumov, Uhlíčky (14), 4.ix.2005, 1 ♀, PK. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 7 ♂♂ 3 ♀♀; 10.ix.1999, 5 ♂♂ 8 ♀♀; 30.vi.2004, 1 larva; 28.vii.2005, 3 ♂♂ 3 ♀♀; 6.ix.2005, 4 ♂♂ 3 ♀♀; 12.vii.2006, 1 ♂; all IM; 16.viii.2006, 2 ♂♂ 1 ♀, PK. Nedašov, Kaňoury NM (18), 12.vii.2006, 5 ♂♂ 4 ♀♀, IM; 16.viii.2006, 2 ♀♀, PK. Brumov, Kloboucká street (24), 2.ix.2004, 1 ♂ 3 ♀♀, IM; 3.vi–4.vii.2005, 1 ♂ 1 ♀, PT, KR; 28.vii.2005, 3 ♂♂ 6 ♀♀, PK; 4.ix.2005, 1 ♀, PK. Bylnice, Na Stráži (25), 11.vii.2006, 10 ♂♂ 6 ♀♀, IM. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 17 ♂♂ 34 ♀♀; 28.vii.2005, 21 ♂♂ 24 ♀♀; 6.ix.2005, 4 ♂♂ 9 ♀♀; all IM. Hluk, Babí hora NM (36), 24.viii.2002, 1 ♀, IM. Blatnička, Milejovské louky meadows (39), 11.vii.2009, 3 ♂♂ 1 ♀; 16.viii.2009, 2 ♂♂; all PB. Suchov, Kazivec brook valley (47), 9.ix.1998, 1 ♂ 3 ♀♀, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, several ♂♂ ♀♀, IM; 30.vi.2001, 47 ♂♂ 12 ♀♀ 8 larvae, IM & PK; 13.viii.2001, 18 ♂♂ 31 ♀♀, PK; 21.ix.2001, 5 ♀♀, PK; 21.vii.2002, 178 ♂♂ 170 ♀♀ 1 larva, IM; 10.ix.2002, 2 ♂♂ 3 ♀♀, IM. Horní Němčí, Vinohrádky (49), 30.vi.2001, 4 ♂♂ 1 ♀ 2 larvae, IM; 13.viii.2001, 1 ♀, PK; 20.vii.2002, 6 ♂♂ 7 ♀♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 1 ♂, IM. Strání, Obecnice hill (60), 2.vii.2001, 15 ♂♂ 8 ♀♀ 2 larvae, IM & PK; 9.viii.2001, 6 ♂♂ 3 ♀♀, PK; 23.v.2002, 2 larvae, IM; 20.vii.2002, 15 ♂♂ 23 ♀♀, IM; 12.ix.2002, 1 ♀, IM. Lopeník, Lopenické sedlo (64), 27.vi.2004, 1 ♂ 24 larvae, IM; 25.ix.2004, 4 ♂♂ 10 ♀♀, IM; 24.vii.2005, 132 ♂♂ 133 ♀♀ 19 larvae, IM; 3.ix.2005, 48 ♂♂ 55 ♀♀, PK. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 6 ♂♂ 3 ♀♀; 8.viii.2007, 3 ♂♂ 2 ♀♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 3 ♀♀; 8.viii.2007, 1 ♂; all IM. Vyskovec, Vyskovcecké Bošačky (69), 27.vi.2004, 4 larvae, IM; 25.ix.2004, 3 ♀♀, PK; 24.vii.2005, 9 ♂♂ 1 ♀, PK; 3.ix.2005, 2 ♂♂ 5 ♀♀, PK. Kněždub, Kněždubský háj forest (75), 17.viii.2000, 1 ♂, PK. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 2 ♀♀, IM & PK; 27.vi.2002, 2 ♂♂, IM. Hrubá Vrbka, football ground (82), 19.vi.2000, 1 ♂ 1 ♀, IM & PK. Radějov, Měsíční údolí valley (84), 20.viii.2002, 1 ♀, PK. Radějov, Kútky NR (86), 11.vii.1998, 2 ♂♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 1 ♂ 2 ♀♀, IM; 18.viii.2000, 1 ♀, PK; 9.–10.ix.2000, 2 ♂♂ 3 ♀♀, IM. Suchov, Suchovské Mlýny (89), 23.vi.2004, 3 ♂♂ 5 larvae, IM; 18.viii.2004, 3 ♂♂ 3 ♀♀, PK; 27.vii.2005, 24 ♂♂ 29 ♀♀, IM; 1.ix.2005, 3 ♂♂ 3 ♀♀, IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 1 ♂ 50 larvae, IM; 16.viii.2004, 72 ♂♂ 75 ♀♀ 1 larva, PK; 1.x.2004, 1 ♂ 5 ♀♀, IM; 27.vii.2005, 345 ♂♂ 291 ♀♀ 2 larvae, IM; 1.ix.2005, 46 ♂♂ 51 ♀♀, IM. Javorník, Jazevečí NNR (96), 19.vi.2000, 5 ♂♂ 1 ♀, IM. Javorník, Petruchovy Mlýny (97), 23.vi.2004, 1 ♂ 3 larvae; 2.ix.2004, 1 ♀; 26.v.2005, 1 larva; 27.vii.2005, 3 ♂♂ 3 ♀♀; all IM. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 1 ♂ 1 ♀, IM. Strání, Záhumenice NM (104), 2.vii.2001, 1 ♂, IM; 9.viii.2001, 1 ♂ 1 ♀, PK.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in pastures, meadows and fragments of dry grassland throughout the area. **General distribution:** Palearctic. **Host plants:** Poaceae (mainly fine-leaved *Festuca* spp. including *F. rubra* and *F. ovina*-group and *Agrostis capillaris*). **Red List status:** –.

Edwardsiana ampliata (Wagner, 1947)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Valašské Klobouky, Brumovská street (5), 13.ix.1999, 1 ♂, LT, IM. Bylnice, Bylničky (26), 24.vi.1982, 2 ♂♂, PL. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 1 ♂, IM. Korytná, Březí (46), 5.vii.2001, 1 ♂, IM. Lopeník, U Zvonice NM (63), 25.ix.2004,

1 ♂, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♂, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂, IM; 22.vi.2001, 4 ♂♂, IM & PK. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 1 ♂, MT, JM & PC. Radějov, Měsíční údolí valley (84), 8.ix.1998, 2 ♂♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 1 ♂, IM. Javorník, village (92), 8.viii.2001, 1 ♂, PK. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂, IM. Javorník, Machová NR (102), 14.vi.2010, 1 ♂, MT, JM & PC.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common at forest margins and on solitary trees throughout the area. **General distribution:** Central and eastern Europe. **Host plants:** Probably polyphagous on deciduous trees (*Acer campestre*, *A. pseudoplatanus*, *Corylus avellana*, *Quercus robur*, and *Tilia cordata*). **Red List status:** –.

Edwardsiana bergmani (Tullgren, 1916)

Material examined. Bylnice, Bylničky (26), 24.vi.1982, 1 ♂, PL.

Distribution and frequency in the Bílé Karpaty PLA: Known only from one finding in the north-eastern part of the area. **General distribution:** Eurosiberian. **Host plants:** *Betula pendula*, *B. pubescens*, *Alnus glutinosa*, *A. alnobetula*. **Red List status:** –.

Comments. A psychrophilous species, apparently sporadic in the Czech Republic with only two published records from the foothills of the Krkonoše Mts. in north-eastern Bohemia and the Hornomoravský úval Lowland in central Moravia (DLABOLA 1954, LAUTERER 1980).

Edwardsiana candidula (Kirschbaum, 1868)

Material examined. Velká nad Veličkou, village (87), 19.vi.2000, 3 ♂♂, PK; 9.ix.2000, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Recorded from a single site on the periphery of a village in the south-western part of the area. **General distribution:** European. **Host plant:** *Populus alba*. **Red List status:** –.

Edwardsiana crataegi (Douglas, 1876)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Nedašov, Kaňoury NM (18), 16.viii.2006, 2 ♂♂, PK. Bylnice, Na Stráži (25), 11.vii.2006, 1 ♂, IM. Bylnice, Bylničky (26), 24.vi.1982, 6 ♂♂, PL. Svatý Štěpán, Nadřičí (32), 12.ix.1999, 1 ♂, IM. Hluk, Babí hora NM (36), 24.viii.2002, 2 ♂♂, IM. Horní Němčí, Hornoněmčanský háj forest (45), 7.vii.1985, 3 ♂♂, PL. Korytná, Březí (46), 5.vii.2001, 2 ♂♂, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 2 ♂♂, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, 2 ♂♂; 30.vi.2001, 8 ♂♂; all IM; 21.ix.2001, 1 ♂, PK. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 2 ♂♂; 8.viii.2007, 1 ♂; 22.ix.2007, 1 ♂; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 3 ♂♂; 8.viii.2007, 1 ♂; 22.ix.2007, 3 ♂♂; all IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂, IM; 22.vi.2001, 1 ♂, IM & PK. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 7 ♂♂, MT, JM & PC. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♂, IM. Radějov, Veselka hill (85), 11.vii.1998, 1 ♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 8 ♂♂, IM. Velká nad Veličkou, towards Javorník (91), 10.vi.1982, 6 ♂♂, PL. Javorník, SW slopes of Háj hill (93), 19.vi.1980, 1 ♂, PL. Javorník, Jazevčí NNR (96), 19.vi.2000, 2 ♂♂; 10.ix.2000, 3 ♂♂;

all IM. Nová Lhota, Fojtické Mlýny (98), 7.vii.1980, 4 ♂♂ 2 ♀♀, PL. Javorník, Machová NR (102), 14.vi.2010, 8 ♂♂, MT, JM & PC. Javorník, Výzkum hill (103), 10.vi.1982, 7 ♂♂, PL. Strání, Záhumenice NM (104), 15.vi.2010, 3 ♂♂, MT, JM & PC.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, common especially in its south-western part, more local and rare in the north-east: apparently thermophilous; on sunny forest and scrub margins, solitary shrubs scattered in grasslands, and in orchards. **General distribution:** Eurosiberian. **Host plants:** Woody species of Rosaceae (mainly *Crataegus*, *Malus* and *Prunus* spp.). **Red List status:** –.

Edwardsiana diversa (Edwards, 1914)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Bylnice, Bylničky (26), 24.vi.1982, 2 ♂♂, PL. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 1 ♂, IM. Horní Němčí, Hornoněmčanský háj forest (45), 10.ix.2002, 1 ♂, IM. Korytná, Lubná pond environs (56), 5.vii.2001, 1 ♂, IM. Starý Hrozenkov, Skalka quarry (67), 8.viii.2007, 1 ♂, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 22.ix.2007, 1 ♂; IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂, IM. Velká nad Veličkou, village (87), 9.ix.2000, 1 ♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 4 ♂♂, IM. Suchov, Suchovské Mlýny (89), 1.x.2004, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread on warm sites throughout the area except its north-easternmost tip; on sunny forest and scrub margins. **General distribution:** Western Palearctic. **Host plants:** *Cornus sanguinea*, *C. mas.* **Red List status:** –.

Edwardsiana flavescens (Fabricius, 1794)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Bylnice, Bylničky (26), 24.vi.1982, 3 ♂♂, PL. Nedašov, Pod Cigánem NM (30), 5.x.2004, 1 ♂, IM. Horní Němčí, Hornoněmčanský háj forest (45), 7.vii.1980, 1 ♂, PL. Korytná, Březí (46), 5.vii.2001, 1 ♂, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 1 ♂, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 1 ♂, IM; 21.ix.2001, 2 ♂♂, PK; 23.v.2002, 4 ♂♂, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♂, IM & PK. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♂, IM. Strání, Důbrava hill (62), 7.vii.1980, 7 ♂♂, PL. Lopeník, Lopenické sedlo (64), 25.ix.2004, 1 ♂ 1 ♀, IM. Lopeník, Míkulčín vrch hill (65), 25.ix.2004, 2 ♂♂, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♂; 22.ix.2007, 1 ♂; both IM. Kněždub, Kněždubský háj forest (75), 28.vii.2000, 1 ♂, IM; 22.vi.2001, 4 ♂♂, IM & PK; 20.ix.2001, 1 ♂, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 2 ♂♂, IM. Velká nad Veličkou, village (87), 22.x.2000, 1 ♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 2 ♂♂, IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 1 ♂, IM. Javorník, loampit W of village (95), 7.ix.1998, 1 ♂, IM. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 2 ♂♂, IM. Strání, Záhumenice NM (104), 8.vi.2001, 1 ♂, PL; 21.ix.2001, 1 ♂, IM; 15.vi.2010, 1 ♂, MT, JM & PC. Strání, Javorina NNR (106), 4.vii.2001, 29 ♂♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area including the highest elevations; in deciduous forests and along their margins. **General distribution:** European. **Host plants:** *Carpinus betulus* and *Fagus sylvatica*. **Red List status:** –.

***Edwardsiana geometrica* (Schrank, 1801)**

Material examined. Horní Němčí, Drahy NR (48), 30.vi.2001, 2 ♂♂ 1 ♀, IM; 21.ix.2001, 1 ♂ 3 ♀♀, PK. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♂, IM. Lopeník, U Zvonice NM (63), 25.ix.2004, 1 ♀, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♀, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Recorded from the south-western and central parts of the area, usually on trees along brooks. **General distribution:** European. **Host plants:** *Alnus incana*, *A. glutinosa*. **Red List status:** –.

***Edwardsiana gratiosa* (Boheman, 1852)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Radějovka brook valley (79).

Additional material examined. Radějov, Měsíční údolí valley (84), 20.viii.2002, 1 ♀, PK.

Distribution and frequency in the Bílé Karpaty PLA: Perhaps rare and quite local: recorded from only two sites along brooks in the south-western part of the area. **General distribution:** European. **Host plants:** *Alnus glutinosa*. **Red List status:** –.

***Edwardsiana ishidai* (Matsumura, 1932) (VU)**

Material examined. Kněždub, Kněždubský háj forest (75), 22.vi.2001, 14 ♂♂, IM & PK.

Distribution and frequency in the Bílé Karpaty PLA: Known from only one site in the south-western part of the area (forest margins in the Járkovec brook floodplain and around the Kejda pond). **General distribution:** Eurosiberian. **Host plants:** *Ulmus* spp. **Red List status:** Vulnerable.

Comments. *Edwardsiana ishidai* is a generally rare species in the Czech Republic. A few published records are from the Kokořínsko PLA and the environs of Neratovice in central Bohemia and the lowlands of southern and central Moravia (LAUTERER 1984, 1995a; MALENOVSKÝ 2006).

***Edwardsiana lamellaris* (Ribaut, 1931) (NT)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Strání, Důbrava hill (62), 7.vii.1980, 1 ♂, PL. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 20 ♂♂, MT, JM & PC. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 1 ♂, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂, IM. Javorník, Machová NR (102), 14.vi.2010, 3 ♂♂, MT, JM & PC. Strání, Záhumenice NM (104), 15.vi.2010, 8 ♂♂, MT, JM & PC.

Distribution and frequency in the Bílé Karpaty PLA: Locally common at sunny forest margins and on solitary shrubs scattered in meadows in the south-western part of the area. **General distribution:** Southern half of Europe. **Host plants:** *Rosa* spp. **Red List status:** Near-threatened.

Comments. A thermophilous species, recorded in the Czech Republic only from southern and central Moravia (LAUTERER 1984, 1995b; MALENOVSKÝ *et al.* 2011).

Edwardsiana lethierryi (Edwards, 1881)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Poteč, Ploščiny NR (12), 17.viii.2006, 1 ♂, PK. Bylnice, Bylničky (26), 24.vi.1982, 1 ♂, PL. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 1 ♂, IM. Svatý Štěpán, Nadřičí (32), 12.ix.1999, 2 ♂♂, IM. Horní Němčí, Hornoněmčanský háj forest (45), 7.vii.1985, 3 ♂♂, PL. Kněždub, Kněždubský háj forest (75), 22.vi.2001, 1 ♂, IM & PK; 20.ix.2001, 1 ♂, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♂, IM. Velká nad Veličkou, village (87), 9.ix.2000, 1 ♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 5 ♂♂, IM. Javorník, Jazevečí NNR (96), 10.ix.2000, 1 ♂, IM. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 1 ♂ 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common along forest margins throughout the area. **General distribution:** European. **Host plants:** *Acer campestre*, *Tilia* spp. **Red List status:** –.

Edwardsiana plurispinosa (Wagner, 1935)

Material examined. Bylnice, Bylničky (26), 24.vi.1982, 10 ♂♂, PL. Suchov, Kazivec brook valley (47), 9.ix.1998, 1 ♂, IM. Horní Němčí, Drahy NR (48), 21.ix.2001, 2 ♂♂, PK. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♂; 10.ix.1998, 1 ♂; both IM. Lopeník, U Zvonice NM (63), 25.ix.2004, 3 ♂♂, IM. Starý Hrozenkov, Skalka quarry (67), 8.viii.2007, 1 ♂, IM. Kněždub, Kněždubský háj forest (75), 22.vi.2001, 4 ♂♂, IM & PK. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 4 ♂♂, MT, JM & PC. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 1 ♂, IM. Javorník, Jazevečí NNR (96), 19.vi.2000, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common along streams and forest margins throughout the area. **General distribution:** European. **Host plants:** *Corylus avellana*, *Alnus* spp. **Red List status:** –.

Comments. The distribution of *E. plurispinosa* in the Czech Republic has been insufficiently documented (e.g. MALENOVSKÝ *et al.* 2011) due to recent changes in taxonomy (WILSON & CLARIDGE 1999).

Edwardsiana prunicola (Edwards, 1914)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 1 ♂, IM. Bylnice, Bylničky (26), 24.vi.1982, 1 ♂, PL. Horní Němčí, village (44), 13.viii.2001, 1 ♂, PK. Suchov, Kazivec brook valley (47), 9.ix.1998, 1 ♂, IM. Korytná, Lubná pond environs (56), 5.vii.2001, 2 ♂♂, IM. Lopeník, Lopenické sedlo (64), 25.ix.2004, 1 ♂, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♂, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 22.ix.2007, 2 ♂♂, IM. Radějov, Lučina (76), 22.vi.2001, 2 ♂♂, IM & PK. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 1 ♂, MT, JM & PC. Radějov, Kútky NR (86), 8.ix.1998, 1 ♂, IM. Velká nad Veličkou, village (87), 9.ix.2000, 2 ♂♂, IM. Javorník, Jazevečí NNR (96), 19.vi.2000, 1 ♂; 10.ix.2000, 1 ♂; both IM. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 1 ♂, IM. Strání, Záhumenice NM (104), 15.vi.2010, 1 ♂, MT, JM & PC.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area, mainly along streams and around ponds and springs. **General distribution:** European. **Host plants:** *Salix* spp. (*S. cinerea*, *S. aurita*, *S. viminalis*, *S. caprea*) and *Prunus* spp. (*P. spinosa*, *P. domestica*). **Red List status:** –.

***Edwardsiana rosae* (Linnaeus, 1758)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Nedašov, village (15), 3.vii.1999, 1 ♂, IM. Nedašov, Kaňoury NM (18), 16.viii.2006, 1 ♂, PK. Korytná, Březí (46), 5.vii.2001, 1 ♂, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 3 ♂♂, IM. Komňa, Lom Rasová NM (54), 5.vii.2001, 1 ♂ 1 ♀, IM. Lopeník, U Zvonice NM (63), 25.ix.2004, 1 ♂, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♂; 22.ix.2007, 2 ♂♂; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 22.ix.2007, 8 ♂♂, IM. Malá Vrbka, village (81), 20.ix.2001, 6 ♂♂, IM. Velká nad Veličkou, village (87), 19.vi.2000, 1 ♂, PK; 9.ix.2000, 2 ♂♂, IM; 22.x.2000, 8 ♂♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 6 ♂♂, IM. Velká nad Veličkou, towards Javorník (91), 10.vi.1982, 2 ♂♂, PL. Javorník, village (92), 8.viii.2001, 2 ♂♂, PK. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂, IM. Javorník, Machová NR (102), 14.vi.2010, 6 ♂♂, MT, JM & PC. Strání, Záhumenice NM (104), 8.vi.2001, 13 ♂♂ 20 ♀♀, PL; 15.vi.2010, 2 ♂♂, MT, JM & PC.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area, e.g. on shrubs scattered in meadows and pastures and on waysides.

General distribution: Palaearctic. **Host plants:** *Rosa* spp., *Prunus spinosa* and other woody Rosaceae. **Red List status:** –.

***Edwardsiana salicicola* (Edwards, 1885)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Suchov, Kazivec brook valley (47), 9.ix.1998, 2 ♂♂, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 1 ♂, IM. Lopeník, U Zvonice NM (63), 25.ix.2004, 1 ♂, IM. Lopeník, Lopenické sedlo (64), 25.ix.2004, 2 ♂♂, IM. Starý Hrozenkov, Skalka quarry (67), 22.ix.2007, 1 ♂, IM. Radějov, Lučina (76), 22.vi.2001, 2 ♂♂, IM & PK. Radějov, Kútky NR (86), 8.ix.1998, 1 ♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 2 ♂♂, IM. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 2 ♂♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Recorded from the south-western and central parts of the area, quite common in wet places. **General distribution:** Eurosiberian. **Host plants:** *Salix* spp. (mainly *S. cinerea*, *S. aurita*, *S. caprea*). **Red List status:** –.

***Edwardsiana soror* (Linnavuori, 1950)**

(NT)

Published records. MALENOVSKÝ & LAUTERER (2010): Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101).

Additional material examined. Bylnice, railway station environs (27), 11.ix.1999, 1 ♂, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 2 ♂♂, IM; 21.ix.2001, 2 ♂♂, PK. Strání, Záhumenice NM (104), 15.vi.2010, 4 ♂♂, MT, JM & PC.

Distribution and frequency in the Bílé Karpaty PLA: Probably quite widespread in the area but local; mainly along brooks and rivers. **General distribution:** Central and northern Europe, Siberia. **Host plant:** *Alnus incana*. **Red List status:** Near-threatened.

Comments. Widespread but generally rare and local in the Czech Republic; besides the Bílé Karpaty PLA known from the Hornomoravský úval Lowland in central Moravia and the Šumava and the Jizerské hory Mts. in Bohemia (MALENOVSKÝ & LAUTERER 2010).

Edwardsiana spinigera (Edwards, 1924)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Brumovská street (5), 13.ix.1999, 1 ♂, LT, IM. Nedašov, Kaňoury NM (18), 12.vii.2006, 1 ♂, IM. Bylnice, railway station environs (27), 1.vii.1999, 1 ♂, MH & PK. Korytná, Lubná pond environs (56), 5.vii.2001, 1 ♂, IM. Březová, Kalábová NM (58), 4.vii.2001, 1 ♂, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♂, IM. Radějov, Lučina (76), 14.vii.1998, 1 ♂, IM. Malá Vrbka, Výzkum hill (80), 19.vi.2000, 1 ♂, IM & PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 1 ♂, IM. Javorník, Jazeví NNR (96), 19.vi.2000, 3 ♂♂, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common at forest margins throughout the area. **General distribution:** European. **Host plants:** *Corylus avellana*. **Red List status:** –.

Edwardsiana stehliki Lauterer, 1958

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Bylnice, Bylničky (26), 24.vi.1982, 2 ♂♂, PL. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 2 ♂♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Quite rare and local, although probably widespread; at sunny forest margins. **General distribution:** Central Europe, Sweden. **Host plants:** *Corylus avellana*, *C. maxima*. **Red List status:** –.

Edwardsiana ulmiphagus Wilson et Claridge, 1999

Material examined. Korytná, Břeží (46), 5.vii.2001, 1 ♂, IM. Kněždub, Kněždubský háj forest (75), 28.vii.2000, 2 ♂♂, IM; 22.vi.2001, 19 ♂♂, IM & PK. Strání, Záhumenice NM (104), 15.vi.2010, 1 ♂, MT, JM & PC. Strání, Javorina NNR (106), 4.vii.2001, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Documented only from the south-western part of the area, locally common on elm trees at forest margins. **General distribution:** European. **Host plants:** *Ulmus* spp. **Red List status:** –.

Comments. A recently described species, previously confused and mixed together with *E. plurispinosa* under the name *E. hippocastani* (Edwards, 1888) (see WILSON & CLARIDGE 1999 for details). A revision of material in the museum collections is needed to reveal its fine distribution in the Czech Republic. The specimens cited under *Typhlocyba hippocastani* by DLABOLA (1954) from Peřimov near Jilemnice in north-eastern Bohemia have been examined in Dlabola collection, Muséum national d'Histoire naturelle, Paris (7 ♂♂, Peřimov, 7.ix.1944, J. Dlabola leg.) and found to belong to *E. ulmiphagus* as well. The species thus occurs both in Bohemia and Moravia.

Elymana sulphurella (Zetterstedt, 1828)

Published records. LANG (1945a): Korytná, Lipiny forest (38); Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99); Suchá Loz, Studený vrch hill (57); Březová, Kalábová NM (58). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79). KMENT & MALENOVSKÝ (2008): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Petrůvka, U Petrůvky NM (3), 6.viii.1999, 4 ♀♀, PK. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 2 ♀♀, IM. Valašské Klobouky, U Rybníků (6), 10.ix.1999, 3 ♀♀, IM. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 3 ♂♂ 9 ♀♀, IM; 24.viii.2002, 1 ♂ 3 ♀♀, PK. Valašské Klobouky, Dobšená NM (8), 2.vii.1999, 3 ♂♂; 10.ix.1999, 7 ♀♀; all IM. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 1 ♂, MH; 9.ix.1999, 1 ♂ 7 ♀♀, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 4 ♀♀, IM. Valašské Klobouky, Královec hill (11), 10.ix.1999, 2 ♀♀, IM. Poteč, Ploščiny NR (12), 4.vii.1999, 1 ♂, IM; 13.ix.1999, 2 ♂♂ 30 ♀♀, IM; 24.viii.2002, 1 ♂ 9 ♀♀, PK; 17.viii.2006, 3 ♂♂ 2 ♀♀, PK. Valašské Klobouky, Bílé potoky NR (13), 9.ix.1999, 1 ♂, IM; 23.viii.2002, 1 ♂ 2 ♀♀, PK; 11.vii.2006, 26 ♂♂ 4 ♀♀, IM; 14.viii.2006, 1 ♂ 4 ♀♀, PK. Brumov, Uhličky (14), 30.vi.2004, 5 larvae; 1.ix.2004, 3 ♀♀; 5.x.2004, 1 ♀; all IM; 28.vii.2005, 1 ♂; 4.ix.2005, 1 ♀; both PK. Nedašov, village (15), 3.vii.1999, 1 ♂, IM. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 12 ♂♂ 3 ♀♀; 10.ix.1999, 1 ♂ 8 ♀♀; 5.x.2004, 1 ♀; 28.vii.2005, 1 ♀; 6.ix.2005, 3 ♀♀; all IM; 16.viii.2006, 1 ♀, PK. Nedašov, Kaňoury NM (18), 12.vii.2006, 3 ♂♂ 4 ♀♀, IM; 16.viii.2006, 2 ♂♂ 8 ♀♀, PK. Luhačovice, Luhačovická dolina valley (21), 6.viii.1980, 1 ♀, PL. Rokytnice, Bukovina hill (23), 21.viii.1984, 2 ♀♀, PL. Brumov, Kloboucká street (24), 2.ix.2004, 2 ♀♀, IM; 28.vii.2005, 3 ♂♂ 9 ♀♀, PK; 4.ix.2005, 3 ♀♀, PK. Bylnice, Na Stráži (25), 11.vii.2006, 2 ♂♂ 2 ♀♀, IM. Bylnice, railway station environs (27), 11.ix.1999, 1 ♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 7 ♀♀, IM. Nedašov, Pod Cigánem NM (30), 10.ix.1999, 1 ♀; 1.ix.2004, 1 ♂ 22 ♀♀; 5.x.2004, 3 ♀♀; 28.vii.2005, 36 ♂♂ 16 ♀♀; 6.ix.2005, 2 ♂♂ 7 ♀♀; all IM. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 4 ♀♀, IM. Hluk, Kobylí hlava NM (35), 24.viii.2002, 1 ♂ 1 ♀, IM. Boršice u Blatnice, Boršický potok brook valley (41), 16.viii.1984, 1 ♂ 2 ♀♀, PL. Suchov, Búrová NNM (43), 13.vii.1998, 1 ♀, IM. Korytná, Březí (46), 5.vii.2001, 1 ♂, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 2 ♂♂ 13 ♀♀, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, 1 ♀, IM; 13.viii.2001, 1 ♂ 2 ♀♀, PK; 21.ix.2001, 1 ♀, PK; 21.vii.2002, 5 ♂♂ 6 ♀♀, IM; 10.ix.2002, 3 ♀♀, IM. Bánov, Skalky hill (52), 21.viii.1984, 1 ♂ 1 ♀, PL. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♂, IM; 10.ix.1998, 3 ♀♀, all IM. Lopeník, U Zvonice NM (63), 27.vi.2004, 3 larvae, IM; 18.viii.2004, 5 ♂♂ 9 ♀♀, PK; 25.ix.2004, 9 ♀♀, IM; 24.vii.2005, 21 ♂♂ 23 ♀♀ 6 larvae, IM; 26.vii.–26.viii.2005, 1 ♂, PT, KR; 3.ix.2005, 7 ♂♂ 37 ♀♀, PK. Lopeník, Lopenické sedlo (64), 25.ix.2004, 1 ♀, IM; 24.vii.2005, 4 ♂♂ 1 ♀, IM; 3.ix.2005, 4 ♀♀, PK. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♂ 2 ♀♀; 8.viii.2007, 1 ♂ 5 ♀♀; 22.ix.2007, 4 ♀♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 4 ♂♂ 2 ♀♀; 8.viii.2007, 1 ♀; all IM. Vyškovec, Vyškovecké Bošačky (69), 27.vi.2004, 1 ♂ 16 larvae, IM; 25.ix.2004, 3 ♀♀, PK; 24.vii.2005, 11 ♂♂ 5 ♀♀, PK; 3.ix.2005, 10 ♀♀, PK. Vyškovec, Pod Hřibovňou NM (70), 19.viii.2004, 4 ♂♂ 5 ♀♀, PK; 25.ix.2004, 6 ♀♀, PK; 24.vii.2005, 21 ♂♂ 24 ♀♀, PK; 8.ix.2005, 5 ♂♂ 38 ♀♀, IM. Radějov, Holý vrch hill (74), 8.ix.1998, 1 ♀, IM. Kněždub, Kněždubský háj forest (75), 28.vii.2000, 3 ♂♂ 1 ♀; 20.ix.2001, 1 ♀; all IM. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 5 ♂♂ 13 ♀♀, IM & PK. Hrubá Vrbka, football ground (82), 28.vii.2001, 1 ♀, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 5 ♀♀, IM; 20.viii.2002, 1 ♀, PK. Radějov, Veselka hill (85), 11.vii.1998, 5 ♂♂ 3 ♀♀, IM. Radějov, Kútky NR (86), 11.vii.1998, 1 ♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 11 ♂♂ 10 ♀♀; 9.–10.ix.2000, 4 ♂♂ 11 ♀♀; all IM. Suchov, Suchovské Mlýny (89), 16.viii.2004, 2 ♂♂ 5 ♀♀ 6 larvae, PK; 1.x.2004, 1 ♂ 5 ♀♀, IM; 27.vii.2005, 4 ♂♂ 3 ♀♀, IM; 1.ix.2005, 2 ♂♂ 3 ♀♀, IM. Suchov, Trnovský Mlýn (90), 27.vii.2005, 20 ♂♂ 14 ♀♀, IM; 1.ix.2005, 5 ♀♀, IM. Javorník, Nad Vápenkou NM (94), 9.vii.1998, 1 ♂ 1 ♀; 7.ix.2002, 1 ♂ 3 ♀♀; all IM. Javorník, loampit W of village (95), 7.ix.1998, 1 ♂ 4 ♀♀, IM; 10.vii.2009, 2 ♂♂, ZM. Javorník, Jazevčí NNR (96), 19.vi.2000, 12 ♂♂ 2 ♀♀; 10.ix.2000, 3 ♂♂ 7 ♀♀; all IM. Javorník, Petruchovy Mlýny (97), 2.ix.2004, 1 ♀; 27.vii.2005, 1 ♂ 1 ♀; 1.ix.2005, 2 ♀♀; all IM. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 5 ♂♂ 2 ♀♀; 9.ix.1998, 1 ♂ 5 ♀♀; all IM. Javorník, Machová NR (102), 9.vii.1998, several ♂♂ ♀♀, IM. Strání, Záhumenice NM (104), 2.vii.2001, 15 larvae, PK; 9.viii.2001, 1 ♂ 14 ♀♀, PK; 21.ix.2001, 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common among tall grass in meadows, pastures, and ruderal sites throughout the area. **General distribution:** Palaearctic. **Host plants:** Poaceae (e.g. *Calamagrostis* spp., *Holcus* spp., *Elytrogia repens*, *Brachypodium pinnatum*). **Red List status:** –.

Emelyanoviana mollicula (Boheman, 1845)

Published records. LANG (1945a): Korytná, Lipiny forest (38); Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79). KMENT & MALENOVSKÝ (2008): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 2 ♂♂, IM. Valašské Klobouky, Javorůvky NR (7), 2.vii.1999, 1 ♀, IM; 11.ix.1999, 2 ♀♀, IM; 24.viii.2002, 1 ♀, PK. Valašské Klobouky, Dobšená NM (8), 22.v.1999, 1 ♂; 2.vii.1999, 3 ♂♂ 1 ♀; 10.ix.1999, 8 ♂♂ 2 ♀♀; all IM. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 1 ♀, MH; 9.ix.1999, 2 ♀♀, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 1 ♂ 1 ♀, IM. Valašské Klobouky, Královec hill (11), 10.ix.1999, 1 ♂, IM. Poteč, Ploštiny NR (12), 4.vii.1999, 2 ♀♀, IM; 13.ix.1999, 8 ♂♂ 11 ♀♀, IM; 1.vi.2002, 39 ♂♂ 61 ♀♀, IM; 24.viii.2002, 15 ♂♂ 14 ♀♀, PK; 17.viii.2006, 4 ♂♂ 4 ♀♀, PK. Valašské Klobouky, Bílé potoky NR (13), 9.ix.1999, 7 ♂♂ 7 ♀♀, IM; 23.viii.2002, 1 ♂, PK; 16.vi.2006, 9 ♂♂ 7 ♀♀, IM; 11.vii.2006, 1 ♀, IM; 14.viii.2006, 3 ♂♂ 3 ♀♀, PK. Brumov, Uhličky (14), 30.vi.2004, 6 ♂♂ 3 ♀♀; 1.ix.2004, 14 ♂♂ 4 ♀♀; 5.x.2004, 13 ♂♂ 5 ♀♀; 28.v.2005, 5 ♂♂ 1 ♀; all IM; 28.vii.2005, 9 ♂♂ 8 ♀♀ 5 larvae; 4.ix.2005, 26 ♂♂ 26 ♀♀; all PK. Nedašov, Jalovcová stráž NR (17), 10.ix.1999, 2 ♂♂ 12 ♀♀; 30.vi.2004, 1 ♂; 1.ix.2004, 10 ♂♂ 5 ♀♀; 5.x.2004, 1 ♂ 2 ♀♀; 28.v.2005, 3 ♂♂ 1 ♀; 6.ix.2005, 6 ♂♂ 5 ♀♀; 17.vi.2006, 3 ♂♂ 1 ♀; all IM; 25.vi.2002, 1 ♀; 16.viii.2006, 1 ♂ 3 ♀♀; all PK. Nedašov, Kaňoury NM (18), 17.vi.2006, 12 ♂♂ 7 ♀♀, IM; 12.vii.2006, 4 ♂♂ 2 ♀♀, IM; 16.viii.2006, 8 ♂♂ 6 ♀♀, PK. Nedašov, Kaňúr hill and Hrušová dolina valley (19), 20.v.1999, 1 ♀, IM. Brumov, Kloboucká street (24), 2.ix.2004, 2 ♂♂ 3 ♀♀; 5.x.2004, 3 ♂♂ 2 ♀♀; 28.v.2005, 5 ♂♂ 2 ♀♀; all IM; 4.ix.2005, 4 ♂♂ 7 ♀♀, PK. Bylnice, Na Stráži (25), 16.vi.2006, 7 ♂♂ 8 ♀♀, IM; 11.vii.2006, 3 ♂♂ 2 ♀♀, IM; 18.viii.2006, 2 ♂♂ 3 ♀♀, PK. Bylnice, Bylničky (26), 24.vi.1982, 5 ♂♂ 8 ♀♀, PL. Bylnice, Lazy NR and surrounding meadows on N slopes of Plánava hill (28), 12.ix.1999, 3 ♂♂ 3 ♀♀, IM. Nedašov, Pod Cigánem NM (30), 30.vi.2004, 1 ♀; 1.ix.2004, 4 ♂♂ 9 ♀♀; 5.x.2004, 2 ♀♀; 28.vii.2005, 1 ♂ 2 ♀♀; 6.ix.2005, 2 ♂♂ 8 ♀♀; all IM. Sidonie, Vlárka brook valley above village (31), 8.ix.1981, 1 ♂, LP. Hluk, Kobylí hlava NM (35), 24.viii.2002, 3 ♂♂ 7 ♀♀, IM. Blatnička, Milejovské louky meadows (39), 24.v.2009, 11 ♂♂ ♀♀; 11.vii.2009, 1 ♂; 16.viii.2009, 1 ♂; all PB. Horní Němčí, Hornoněmčanský háj forest (45), 7.vii.1980, 2 ♂♂, PL. Korytná, Březí (46), 5.vii.2001, 8 ♂♂ 9 ♀♀, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, many ♂♂ ♀♀, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, several ♂♂ ♀♀, IM; 30.vi.2001, 3 ♂♂ 5 ♀♀, IM & PK; 13.viii.2001, 29 ♂♂ 13 ♀♀, PK; 21.ix.2001, 22 ♂♂ 18 ♀♀, PK; 23.v.2002, 39 ♂♂ 44 ♀♀, IM & PK; 21.vii.2002, 66 ♂♂ 54 ♀♀, IM; 10.ix.2002, 40 ♂♂ 23 ♀♀, IM. Horní Němčí, Vinohrádky (49), 30.vi.2001, 2 ♂♂ 1 ♀, IM; 13.viii.2001, 5 ♂♂ 6 ♀♀, PK; 21.ix.2001, 2 ♂♂ 1 ♀, PK; 23.v.2002, 3 ♂♂ 1 ♀, IM & PK; 20.vii.2002, 11 ♂♂ 6 ♀♀, IM; 10.ix.2002, 8 ♂♂ 6 ♀♀, IM. Komňa, Lom Rasová NM (54), 5.vii.2001, 2 ♀♀, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♂ 4 ♀♀, IM & PK. Korytná, Lubná pond environs (56), 5.vii.2001, 1 ♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♂; 10.ix.1998, many ♂♂ ♀♀; all IM. Strání, Obecnice hill (60), 24.v.2001, 13 ♂♂ 11 ♀♀, IM; 2.vii.2001, 1 ♂ 2 ♀♀, IM & PK; 9.viii.2001, 1 ♂ 5 ♀♀, PK; 21.ix.2001, 9 ♂♂ 20 ♀♀, IM; 23.v.2002, 8 ♂♂ 10 ♀♀, IM; 20.vii.2002, 1 ♂ 1 ♀, IM; 12.ix.2002, 2 ♂♂ 2 ♀♀, IM. Lopeník, U Zvonice NM (63), 27.vi.2004, 4 ♂♂, IM; 18.viii.2004, 1 ♂ 1 ♀, PK; 3.ix.2005, 3 ♂♂ 2 ♀♀, PK. Lopeník, Lopenické sedlo (64), 25.ix.2004, 6 ♂♂ 2 ♀♀, IM; 3.ix.2005, 1 ♀, PK. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 8 ♂♂ 2 ♀♀; 8.viii.2007, 3 ♂♂ 5 ♀♀; 22.ix.2007, 4 ♂♂ 2 ♀♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 8.viii.2007, 1 ♂ 5 ♀♀; 22.ix.2007, 4 ♂♂ 4 ♀♀; all IM. Vyškovec, Vyškovecké Bošačky (69), 27.vi.2004, 1 ♂ 2 ♀♀, IM; 19.viii.2004, 5 ♂♂ 7 ♀♀, PK; 25.ix.2004, 3 ♂♂ 7 ♀♀, PK; 24.vii.2005, 1 ♂ 3 ♀♀, PK; 3.ix.2005, 13 ♂♂ 9 ♀♀, PK. Vyškovec, Pod Hřibovňou NM (70), 28.vi.2004, 1 ♀, IM; 25.ix.2004, 7 ♂♂ 2 ♀♀, PK; 8.ix.2005, 15 ♂♂ 11 ♀♀, IM. Radějov, Holý vrch hill (74), 8.ix.1998, 1 ♂ 2 ♀♀, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 2 ♀♀; 28.vii.2000, 2 ♂♂ 2 ♀♀; all IM; 17.viii.2000, 1 ♂ 1 ♀, PK; 20.ix.2001, 1 ♂, IM. Radějov, Lučina (76), 13.v.1998, several ♂♂ ♀♀, IM. Kněždub, Čertoryje NNR (77, 79), 19.vi.1980, 1 ♂ 1 ♀, PL. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 23 ♂♂, MT, JM & PC. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 1 ♂; 27.vii.2000, 17 ♂♂ 22 ♀♀; all IM & PK. Hrubá Vrbka, football ground (82), 28.vii.2001, 1 ♀; 20.ix.2001, 3 ♂♂ 5 ♀♀, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♂ 2 ♀♀, IM; 20.viii.2002, 1 ♀, PK. Radějov, Kútky NR (86), 2.vi.1979, 2 ♀♀, PL; 11.vii.1998, 1 ♀; 8.ix.1998, 3 ♂♂ 1 ♀, IM. Velká nad Veličkou, village (87), 18.viii.2000, 1 ♂, PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 14.v.1998, 2 ♂♂ 1 ♀; 9.–10.ix.2000, 15 ♂♂ ♀♀; all IM. Suchov, Suchovské Mlýny (89),

23.vi.2004, 4 ♂♂ 5 ♀♀, IM; 16.viii.2004, 12 ♂♂ 10 ♀♀, PK; 1.x.2004, 56 ♂♂ 46 ♀♀, IM; 26.v.2005, 72 ♂♂ 54 ♀♀, IM; 27.vii.2005, 28 ♂♂ 27 ♀♀ 4 larvae, IM; 1.ix.2005, 25 ♂♂ 25 ♀♀, IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 1 ♀, IM; 16.viii.2004, 4 ♂♂ 6 ♀♀, PK; 1.x.2004, 6 ♂♂ 2 ♀♀, IM; 26.v.2005, 3 ♂♂ 2 ♀♀, IM; 27.vii.2005, 3 n*♂ 2 ♀♀, IM; 1.ix.2005, 13 ♂♂ 3 ♀♀, IM. Velká nad Veličkou, towards Javorník (91), 10.vi.1982, 2 ♂♂ 1 ♀, PL. Javorník, village (92), 24.v.2002, 3 ♂♂, IM. Javorník, SW slopes of Háj hill (93), 19.vi.1980, 1 ♂ 1 ♀, PL. Javorník, Nad Vápenkou NM (94), 7.ix.2002, 11 ♂♂ 8 ♀♀, IM. Javorník, loampit W of village (95), 7.ix.1998, many ♂♂ ♀♀; 24.v.2002, 5 ♂♂ 4 ♀♀, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 8 ♂♂ 5 ♀♀; 10.ix.2000, 9 ♂♂ 2 ♀♀; all IM. Javorník, Petruchovy Mlýny (97), 23.vi.2004, 1 ♂ 3 ♀♀; 2.ix.2004, 23 ♂♂ 17 ♀♀; 1.x.2004, 4 ♂♂ 2 ♀♀; 26.v.2005, 17 ♂♂ 5 ♀♀; 27.vii.2005, 11 ♂♂ 7 ♀♀; 1.ix.2005, 21 ♂♂ 21 ♀♀; all IM. Nová Lhota, Fojtické Mlýny (98), 7.vii.1980, 2 ♂♂ 2 ♀♀, PL. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, many ♂♂ ♀♀, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 1 ♀, IM. Javorník, Machová NR (102), 14.vi.2010, 10 ♂♂ 6 ♀♀, MT, JM & PC. Javorník, Výzkum hill (103), 10.vi.1982, 4 ♂♂ 2 ♀♀, PL. Strání, Záhumenice NM (104), 8.vi.2001, 1 ♀, PL; 2.vii.2001, 2 ♂♂ 2 ♀♀, IM & PK; 9.viii.2001, 21 ♂♂ 37 ♀♀, PK; 21.ix.2001, 21 ♂♂ 10 ♀♀, IM; 15.vi.2010, 2 ♂♂, MT, JM & PC. Strání, Javorina NNR (106), 4.vii.2001, 5 ♂♂ 3 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; eurytopic in open, sunny, dry to wet sites, e.g. meadows and pastures, dry grassland, ruderal sites, forest margins, and occasionally also spring fens and shores of water. **General distribution:** Western Palaearctic. **Host plants:** Polyphagous on dicotyledonous herbs, mainly Lamiaceae (e.g. *Salvia pratensis*, *Origanum vulgare*, *Thymus* spp., *Mentha* spp.). **Red List status:** –.

Empoasca affinis Nast, 1937

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Dobšená NM (8), 10.ix.1999, 1 ♂, IM. Bylnice, railway station environs (27), 11.ix.1999, 1 ♂, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 1 ♂, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 1 ♂, IM. Starý Hrozenkov, Skalka quarry (67), 22.ix.2007, 1 ♂, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 22.ix.2007, 2 ♂♂, IM. Kněždub, Kněždubský háj forest (75), 20.ix.2001, 1 ♂, IM. Malá Vrbka, Výzkum hill (80), 4.x.2002, 3 ♂♂, PK. Hrubá Vrbka, football ground (82), 20.ix.2001, 1 ♂, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♂ 1 ♀, IM. Velká nad Veličkou, village (87), 22.x.2000, 1 ♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 3 ♂♂, IM. Javorník, Nad Vápenkou NM (94), 7.ix.2002, 1 ♂, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂ 1 ♀; 10.ix.2000, 2 ♂♂; all IM. Javorník, Petruchovy Mlýny (97), 23.ix.2001, 5 ♂♂, IM. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 1 ♂; 9.ix.1998, 1 ♂ 1 ♀; all IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 2 ♂♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area, although usually recorded in low numbers of specimens; eurytopic in open places: ruderal sites (e.g. abandoned fields and quarries), meadows and along forest margins. **General distribution:** Eurosiberian. **Host plants:** Polyphagous on dicotyledonous herbs and deciduous trees and shrubs. **Red List status:** –.

Empoasca decipiens Paoli, 1930

Published records. LANG (1945a): Korytná, Lipiny forest (38). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Brumovka brook valley (9), 19.v.1999, 1 ♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 2 ♂♂, IM. Hluk, Kobylí hlava

Leafhoppers and planthoppers (Hemiptera: Auchenorrhyncha)

NM (35), 24.viii.2002, 1 ♂ 3 ♀♀, IM. Hluk, Babí hora NM (36), 24.viii.2002, 1 ♀, IM. Blatnička, Milejovské louky meadows (39), 11.vii.2009, 1 ♀, PB. Horní Němčí, Hornoněmčanský háj forest (45), 10.ix.2002, 1 ♀, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 2 ♂♂ 2 ♀♀, IM. Lopeník, Mikulčín vrch hill (65), 25.ix.2004, 1 ♂, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 2 ♂♂ 2 ♀♀; 22.ix.2007, 1 ♂; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♀; 22.ix.2007, 4 ♂♂ 3 ♀♀; all IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂ 1 ♀; 20.ix.2001, 1 ♂; all IM. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 1 ♂, IM & PK; 4.x.2002, 2 ♂♂, PK. Velká nad Veličkou, village (87), 22.x.2000, 6 ♂♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 8 ♂♂, IM. Javorník, Nad Vápenkou NM (94), 7.ix.1998, many ♂♂ ♀♀; 7.ix.2002, 2 ♀♀; all IM. Javorník, Jazevečí NNR (96), 10.ix.2000, 2 ♂♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; usually collected on woody plants along sunny forest margins but also in ruderal sites (e.g. abandoned and cultivated fields). **General distribution:** Western Palaearctic (except northern parts), Afrotropical. **Host plants:** Polyphagous on dicotyledonous herbs and shrubs. **Red List status:** –.

Empoasca pteridis (Dahlbom, 1850)

Published records. LANG (1945a): Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79). KMENT & MALENOVSKÝ (2008): Strání, Záhumenice NM (104).

Additional material examined. Poteč, Ploštiny NR (12), 13.ix.1999, 1 ♂, IM; 1.vi.2002, 1 ♂, IM; 24.viii.2002, 1 ♂, PK; 17.viii.2006, 1 ♂, PK. Brumov, Uhličky (14), 30.vi.2004, 4 ♂♂; 1.ix.2004, 31 ♂♂ 29 ♀♀ 4 larvae; 5.x.2004, 1 ♂ 2 ♀♀; 28.v.2005, 1 ♂; all IM; 28.vii.2005, 6 ♂♂ 7 ♀♀; 4.ix.2005, 5 ♂♂ 4 ♀♀ 1 larva; all PK. Nedašov, Jalovcová stráň NR (17), 1.ix.2004, 1 ♂ 1 ♀; 5.x.2004, 1 ♂ 3 ♀♀; all IM. Rokytnice, Bukovina hill (23), 21.viii.1984, 1 ♂, PL. Brumov, Kloboucká street (24), 30.vi.2004, 1 ♂; 2.ix.2004, 1 ♂ 4 ♀♀; 5.x.2004, 2 ♂♂ 9 ♀♀; all IM. Bylnice, railway station environs (27), 21.v.1999, 1 ♂, IM; 11.ix.1999, 1 ♂, both IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 4 ♂♂, IM. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 2 ♂♂ 4 ♀♀; 5.x.2004, 1 ♀; 28.vii.2005, 2 ♀♀; 6.ix.2005, 3 ♂♂ 1 ♀; all IM. Hluk, Kobylí hlava NM (35), 24.viii.2002, 1 ♂, IM. Blatnička, Milejovské louky meadows (39), 24.v.2009, 1 ♂, PB. Korytná, Břeží (46), 5.vii.2001, 3 ♂♂ 7 ♀♀, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 1 ♂, IM; 13.viii.2001, 1 ♂ 1 ♀, PK; 21.ix.2001, 2 ♂♂ 2 ♀♀, PK; 21.vii.2002, 3 ♂♂ 3 ♀♀, IM; 10.ix.2002, 4 ♂♂ 3 ♀♀, IM. Horní Němčí, Vinohrádky (49), 30.vi.2001, 1 ♂ 5 ♀♀, IM; 13.viii.2001, 2 ♂♂ 9 ♀♀ 5 larvae, PK; 21.ix.2001, 3 ♂♂ 6 ♀♀, PK; 20.vii.2002, 1 ♂ 2 ♀♀, IM. Komňa, Lom Rasová NM (54), 5.vii.2001, 1 ♂ 3 ♀♀, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 2 ♂♂ 1 ♀, IM & PK. Strání, Obecnice hill (60), 9.viii.2001, 2 ♀♀, PK; 21.ix.2001, 2 ♂♂ 4 ♀♀, IM; 23.v.2002, 1 ♀, IM; 20.vii.2002, 2 ♂♂ 1 ♀, IM; 12.ix.2002, 13 ♂♂ 20 ♀♀, IM. Lopeník, U Zvonice NM (63), 25.ix.2004, 2 ♂♂ 8 ♀♀, IM. Lopeník, Lopenické sedlo (64), 27.vi.2004, 1 ♀, IM. Lopeník, Mikulčín vrch hill (65), 25.ix.2004, 4 ♂♂, IM. Starý Hrozenkov, Skalka quarry (67), 22.ix.2007, 1 ♂, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♂; 22.ix.2007, 1 ♂; both IM. Vyškovec, Vyškovecké Bošačky (69), 19.viii.2004, 2 ♂♂ 4 ♀♀, PK; 25.ix.2004, 1 ♂ 4 ♀♀, PK; 3.ix.2005, 1 ♂ 1 ♀, PK. Vyškovec, Pod Hřibovňou NM (70), 28.vi.2004, 1 ♂ 4 larvae, IM. Radějov, Holý vrch hill (74), 8.ix.1998, 2 ♂♂ 1 ♀, IM. Kněždub, Kněždubský háj forest (75), 22.vi.2001, 1 ♂, IM & PK; 20.ix.2001, 2 ♂♂, IM. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 1 ♂; 27.vii.2000, 3 ♂♂ 14 ♀♀, IM & PK; 4.x.2002, 7 ♂♂, PK. Hrubá Vrbka, football ground (82), 20.ix.2001, 8 ♂♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 5 ♂♂, IM. Suchov, Suchovské Mlýny (89), 16.viii.2004, 5 ♀♀, PK; 1.x.2004, 17 ♂♂ 54 ♀♀, IM; 26.v.2005, 5 ♀♀, IM; 27.vii.2005, 2 ♂♂ 7 ♀♀, IM; 1.ix.2005, 2 ♂♂ 2 ♀♀, IM. Suchov, Trnovský Mlýn (90), 1.x.2004, 5 ♂♂ 37 ♀♀; 27.vii.2005, 1 ♀; all IM. Javorník, village (92), 8.viii.2001, 1 ♂, PK. Javorník, Nad Vápenkou NM (94), 7.ix.2002, 2 ♂♂, IM. Javorník, Jazevečí NNR (96), 10.ix.2000, 4 ♂♂, IM. Javorník, Petruchovy Mlýny (97), 1.x.2004, 2 ♂♂ 4 ♀♀; 27.vii.2005, 3 ♀♀; 1.ix.2005, 1 ♂; all IM. Strání, Záhumenice NM (104), 2.vii.2001, 1 ♂ 2 ♀♀, IM; 9.viii.2001, 25 ♂♂ 40 ♀♀, PK; 21.ix.2001, 19 ♂♂ 32 ♀♀, IM. Strání, Javorina NNR (106), 4.vii.2001, 2 ♂♂ 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area, mainly in mown meadows and ruderal sites (e.g. abandoned and cultivated fields, forest clearings, along waysides etc.). **General distribution:** Western Palaearctic. **Host plants:** Polyphagous on dicotyledonous herbs. **Red List status:** –.

Empoasca vitis (Göthe, 1875)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 2 ♂♂ 2 ♀♀, IM. Valašské Klobouky, U Rybníků (6), 22.v.1999, 2 ♀♀; 10.ix.1999, 15 ♂♂ 20 ♀♀; all IM. Valašské Klobouky, Javorůvky NR (7), 22.v.1999, 8 ♀♀, IM; 11.ix.1999, 2 ♂♂ 7 ♀♀, IM; 24.viii.2002, 6 ♂♂ 4 ♀♀, PK. Valašské Klobouky, Dobšená NM (8), 2.vii.1999, 1 ♂; 10.ix.1999, 6 ♂♂ 6 ♀♀; all IM. Valašské Klobouky, Brumovka brook valley (9), 19.v.1999, 2 ♀♀; 9.ix.1999, 2 ♀♀; all IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 8 ♂♂ 9 ♀♀, IM. Valašské Klobouky, Královec hill (11), 10.ix.1999, 2 ♂♂ 1 ♀, IM. Poteč, Ploštiny NR (12), 13.ix.1999, 9 ♂♂ 10 ♀♀, IM; 1.vi.2002, 1 ♀, IM; 17.viii.2006, 4 ♂♂ 6 ♀♀, PK. Valašské Klobouky, Bílé potoky NR (13), 19.v.1999, 2 ♀♀, IM; 9.ix.1999, 12 ♂♂ 20 ♀♀, IM; 23.viii.2002, 2 ♂♂ 8 ♀♀, PK; 11.vii.2006, 5 ♂♂ 4 ♀♀, IM; 14.viii.2006, many ♂♂ ♀♀, PK. Nedašov, Jalovcová stráž NR (17), 20.v.1999, 1 ♀, IM; 16.viii.2006, 2 ♀♀, PK. Nedašov, Kaňoury NM (18), 17.vi.2006, 1 ♀, IM; 16.viii.2006, 3 ♂♂ 8 ♀♀, PK. Nedašov, Kaňúr hill and Hrušová dolina valley (19), 20.v.1999, 1 ♀, IM. Bylnice, Bylničky (26), 24.vi.1982, 1 ♀, PL. Bylnice, railway station environs (27), 11.ix.1999, 2 ♀♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 1.vii.1999, 1 ♀, PK; 12.ix.1999, 6 ♀♀, IM. Nedašov, Na Salaši (29), 10.ix.1999, 1 ♂ 4 ♀♀, IM. Svatý Štěpán, Nadřičí (32), 21.v.1999, 1 ♀, IM. Hluk, Kobylí hlava NM (35), 24.viii.2002, 1 ♂, IM. Horní Němčí, village (44), 13.viii.2001, 1 ♂, PK. Horní Němčí, Hornoněmčanský háj forest (45), 10.ix.2002, 6 ♂♂ 7 ♀♀, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 1 ♀, IM. Horní Němčí, Drahy NR (48), 15.v.1998, 1 ♀; 10.ix.1998, 1 ♀; 30.vi.2001, 1 ♀; all IM; 21.ix.2001, 1 ♂, PK. Horní Němčí, Horní kopec hill (50), 23.v.2002, 1 ♀, IM. Horní Němčí, Lesná hill (51), 15.v.1998, 1 ♀, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♂ 8 ♀♀, IM & PK. Březová, Kalábová NM (58), 4.vii.2001, 1 ♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 2 ♀♀, IM. Lopeník, U Zvonice NM (63), 25.ix.2004, 2 ♂♂ 6 ♀♀, IM. Lopeník, Mikulčín vrch hill (65), 25.ix.2004, 5 ♂♂, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 2 ♂♂ 1 ♀; 8.viii.2007, 1 ♂ 4 ♀♀; 22.ix.2007, 2 ♂♂ 3 ♀♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 8.viii.2007, 3 ♂♂ 4 ♀♀; 22.ix.2007, 5 ♂♂ 6 ♀♀; all IM. Vyskovec, Vyskovecké Bošáčky (69), 25.ix.2004, 1 ♂, PK. Vyskovec, Ve Vlčí NR (71), 22.v.2005, 1 ♀, IM. Radějov, Holý vrch hill (74), 8.ix.1998, 2 ♂♂ 5 ♀♀, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂; 28.vii.2000, 1 ♂ 20 ♀♀; all IM; 22.vi.2001, 3 ♂♂ 12 ♀♀, IM & PK; 20.ix.2001, 1 ♂ 10 ♀♀, IM. Radějov, Lučina (76), 14.vii.1998, 1 ♂ 3 ♀♀, IM. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 1 ♂, MT, JM & PC. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 3 ♀♀, IM & PK. Radějov, Měsíční údolí valley (84), 8.ix.1998, 13 ♂♂ 9 ♀♀, IM; 20.viii.2002, 1 ♂, PK. Velká nad Veličkou, village (87), 18.iv.2000, 1 ♂ 3 ♀♀; 9.ix.2000, 2 ♂♂ 3 ♀♀; 22.x.2000, 1 ♂; all IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 1 ♂; 18.iv.2000, 2 ♀♀; 9.–10.ix.2000, 3 ♂♂ 8 ♀♀; all IM. Suchov, Suchovské Mlýny (89), 6.v.2000, 5 ♀♀, IM. Javorník, loampit W of village (95), 24.v.2002, 1 ♀, IM. Javorník, Jazevčí NNR (96), 6.v.2000, 3 ♀♀; 19.vi.2000, 5 ♂♂ 2 ♀♀; 10.ix.2000, 1 ♂ 1 ♀; all IM. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 1 ♀; 28.x.2011, 5 ♂♂ 8 ♀♀; all IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 4 ♀♀, IM. Javorník, Machová NR (102), 14.v.1998, 1 ♂, IM. Strání, Záhumenice NM (104), 24.v.2001, 1 ♀, IM. 15.vi.2010, 1 ♂, MT, JM & PC. Strání, Javorina NNR (106), 4.vii.2001, 1 ♂ 1 ♀; 29.x.2011, 3 ♂♂ 3 ♀♀; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common on woody plants throughout the area; eurytopic, e.g. in forests and along their margins, on shrubs and trees scattered in grassland or along waysides, and on ornamental vegetation in villages. **General distribution:** Palaearctic. **Host plants:** Polyphagous, mainly on deciduous trees and shrubs, adults overwinter on conifers. **Red List status:** –.

***Enantiocephalus cornutus* (Herrich-Schäffer, 1838)**

Material examined. Malá Vrbka, Výzkum hill (80), 28.vii.2001, 1 ♂, IM & PK; 27.vi.2002, 1 ♀, IM. Suchov, Suchovské Mlýny (89), 27.vii.2005, 1 ♂, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Known only from three sites in the south-western part of the area; rare and local in dry abandoned fields and pastures.

General distribution: Central and south-eastern Europe, Kazakhstan. **Host plants:** Poaceae (in central Europe mainly *Elytrigia repens*). **Red List status:** –.

***Errastunus ocellaris* (Fallén, 1806)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 4 ♂♂ 2 ♀♀, IM. Valašské Klobouky, Javorůvky NR (7), 2.vii.1999, 1 ♂; 11.ix.1999, 6 ♂♂ 5 ♀♀, IM. Valašské Klobouky, Dobšená NM (8), 10.ix.1999, 2 ♂♂ 3 ♀♀, IM. Valašské Klobouky, Brumovka brook valley (9), 19.v.1999, 1 ♀, IM; 30.vi.1999, 2 ♂♂ 2 ♀♀, MH; 9.ix.1999, 6 ♂♂ 2 ♀♀, IM. Valašské Klobouky, Královec hill (11), 10.ix.1999, 1 ♀, IM. Poteč, Ploščiny NR (12), 4.vii.1999, 1 ♀, IM; 13.ix.1999, 5 ♂♂ 5 ♀♀, IM; 1.vi.2002, 58 ♂♂ 27 ♀♀ 3 larvae, IM; 24.viii.2002, 8 ♂♂ 1 ♀, PK; 17.viii.2006, 4 ♂♂, PK. Valašské Klobouky, Bílé potoky NR (13), 9.ix.1999, 5 ♂♂ 2 ♀♀, IM; 16.vi.2006, 1 ♂ 1 ♀, IM; 11.vii.2006, 5 ♀♀, IM; 14.viii.2006, 3 ♂♂ 3 ♀♀, PK. Brumov, Uhličky (14), 30.vi.2004, 1 ♂ 9 ♀♀ 4 larvae; 1.ix.2004, 93 ♂♂ 116 ♀♀ 42 larvae; 5.x.2004, 15 ♂♂ 40 ♀♀; 28.v.2005, 22 ♂♂ 12 ♀♀ 3 larvae; all IM; 28.vii.2005, 15 ♂♂ 20 ♀♀ 4 larvae; 4.ix.2005, 16 ♂♂ 31 ♀♀ 14 larvae; all PK; 5.iv.–4.v.2005, 1 larva; 4.v.–3.vi.2005, 2 ♀♀, 2 larvae; 3.vi.–4.vii.2005, 1 ♂; 4.vii.–6.viii.2005, 3 ♂♂ 6 ♀♀ 13 larvae; 6.viii.–7.ix.2005, 1 ♂ 5 ♀♀ 1 larva; 7.ix.–6.x.2005, 1 ♂ 6 ♀♀ 2 larvae, all PT, KR. Nedašov, Jalovcová stráž NR (17), 20.v.1999, 5 ♂♂ 1 ♀; 10.ix.1999, 3 ♂♂ 3 ♀♀; 1.ix.2004, 1 ♂; 5.x.2004, 3 ♀♀; 28.v.2005, 2 ♀♀; 6.ix.2005, 21 ♂♂ 11 ♀♀; 17.vi.2006, 2 ♂♂; all IM; 16.viii.2006, 2 ♂♂ 2 ♀♀, PK. Nedašov, Kaňoury NM (18), 17.vi.2006, 1 ♂ 1 ♀, IM. Brumov, Kloboucká street (24), 30.vi.2004, 1 ♀, IM. Bylnice, Na Stráži (25), 11.vii.2006, 1 ♂, IM. Bylnice, Bylničky (26), 24.vi.1982, 5 ♂♂ 5 ♀♀, PL. Bylnice, railway station environs (27), 11.ix.1999, 5 ♂♂ 6 ♀♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 3 ♂♂ 4 ♀♀, IM. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 2 ♂♂ 1 larva; 6.ix.2005, 5 ♂♂ 1 ♀; all IM. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, many ♂♂ ♀♀, IM. Hluk, Babí hora NM (36), 24.viii.2002, 1 ♂, IM. Blatnička, Milejovské louky meadows (39), 24.v.2009, many ♂♂ ♀♀; 11.vii.2009, 3 ♂♂; all PB. Horní Němčí, village (44), 10.ix.1998, 2 ♂♂ 2 ♀♀, IM. Horní Němčí, Hornoněmčanský háj forest (45), 7.vii.1985, 1 ♂ 1 ♀, PL. Korytná, Břeží (46), 5.vii.2001, 7 ♂♂ 2 ♀♀, IM. Suchov, Kazivec brook valley (47), 15.v.1998, 1 ♂; 9.ix.1998, many ♂♂ ♀♀; all IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 3 ♀♀, IM & PK; 21.ix.2001, 2 ♀♀ 1 larva, PK; 21.vii.2002, 2 larvae, IM; 10.ix.2002, 1 ♀, IM. Horní Němčí, Vinohrádky (49), 30.vi.2001, 2 ♀♀, IM; 13.viii.2001, 5 ♂♂ 7 ♀♀ 5 larvae, PK; 21.ix.2001, 2 ♂♂ 7 ♀♀ 4 larvae, PK; 20.vii.2002, 2 ♂♂ 3 larvae, IM; 10.ix.2002, 1 ♂ 1 larva, IM; 22.vi.–24.vii.2003, 1 ♀, PT, KR; 24.vii.–22.viii.2003, 1 ♀, PT, KR; 22.viii.–27.ix.2003, 1 ♂ 1 larva, PT, KR. Komňa, Lom Rasová NM (54), 5.vii.2001, 2 ♂♂ 2 ♀♀, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♀, IM & PK. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 1 ♂ 1 ♀, IM. Strání, Obecnice hill (60), 20.vii.2002, 1 ♂, IM. Strání, Důbrava hill (62), 7.vii.1980, 4 ♀♀, PL. Lopeník, U Zvonice NM (63), 3.ix.2005, 5 ♂♂ 2 larvae, PK. Lopeník, Lopenické sedlo (64), 27.vi.2004, 2 ♂♂ 2 ♀♀; 25.ix.2004, 2 ♂♂ 4 ♀♀; 24.vii.2005, 1 ♂ 1 ♀; all IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♂ 1 ♀; 8.viii.2007, 3 ♂♂ 2 ♀♀; 22.ix.2007, 2 ♂♂; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♀; 8.viii.2007, 4 ♂♂ 2 ♀♀; 22.ix.2007, 1 ♂; all IM. Výškovec, Výškovecké Bošačky (69), 27.vi.2004, 1 ♂, IM; 19.viii.2004, 4 ♂♂ 1 ♀♀, PK; 25.ix.2004, 1 ♂ 2 ♀♀, PK; 21.v.2005, 1 ♂ 1 ♀ 16 larvae, IM; 3.ix.2005, 5 ♂♂ 5 ♀♀, PK. Výškovec, Pod Hřibovňou NM (70), 28.vi.2004, 1 ♂, IM; 8.ix.2005, 2 ♀♀, IM. Radějov, Holý vrch hill (74), 8.ix.1998, 1 ♂, IM. Radějov, Lučina (76), 13.v.1998, several ♂♂ ♀♀, IM. Kněždub, Čertoryje NNR (77, 79), 19.v.1980, 1 ♀, PL. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 1 ♀; 27.vii.2000, 17 ♂♂ 19 ♀♀ 13 larvae; IM & PK. Hrubá Vrbka, football ground (82), 16.viii.2000, 1 ♂, PK; 20.ix.2001, 3 ♀♀, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 2 ♂♂ 3 ♀♀, IM. Radějov, Kútky NR (86), 8.ix.1998, 4 ♂♂ 1 ♀, IM. Suchov, Suchovské Mlýny (89), 26.v.2005, 1 ♂; 1.ix.2005, 3 ♂♂; all IM. Suchov, Trnovský Mlýn (90),

23.vi.2004, 1 ♂ 1 ♀; 27.vii.2005, 1 ♂; 1.ix.2005, 1 larva; all IM. Velká nad Veličkou, towards Javorník (91), 10.vi.1982, 1 ♂ 1 ♀, PL. Javorník, loampit W of village (95), 24.v.2002, 1 ♂ 2 ♀♀, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂ 1 ♀; 10.ix.2000, 2 ♀♀; all IM. Javorník, Petruchovy Mlýny (97), 2.ix.2004, 2 ♂♂; 1.x.2004, 1 larva; all IM. Nová Lhota, Fojtické Mlýny (98), 7.vii.1980, 1 ♀, PL. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 1 ♂; 9.ix.1998, 4 ♂♂ 3 ♀♀; all IM. Javorník, Machová NR (102), 14.v.1998, 2 ♀♀, IM. Javorník, Výzkum hill (103), 10.vi.1982, 1 ♀, PL. Strání, Záhumenice NM (104), 16.v.1998, several ♂♂ ♀♀, IM; 8.vi.2001, 1 ♀, PL; 2.vii.2001, 4 ♂♂ 4 ♀♀, IM; 21.ix.2001, 6 ♂♂ 7 ♀♀ 1 larva, IM. Strání, Javorina NNR (106), 4.vii.2001, 1 ♂ 5 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area in mesic to wet, usually eutrophicated grassland: meadows (including fertilized ones), pastures (including intensively used ones), floodplains, ruderal sites, forest clearings etc. **General distribution:** Palaearctic. **Host plants:** Poaceae (e.g. *Holcus* spp., *Calamagrostis* spp., *Dactylis glomerata*, *Elytrigia repens*). **Red List status:** –.

Errhomenus brachypterus Fieber, 1866

Material examined. Nedašova Lhota, S foothills of Požár hill (16), 12.viii.1999, 1 ♂, MH. Nová Lhota, Vápenky, Vápenky NM (100), 13.v.–8.vii.2003, 1 ♂, PT, IT & JT.

Distribution and frequency in the Bílé Karpaty PLA: Known only from two beech forest sites; probably under-recorded due to its cryptic way of life in forest litter. **General distribution:** European. **Host plants:** Perhaps polyphagous on roots of trees. **Red List status:** –.

Comments. *Errhomenus brachypterus* is probably a widespread species in the Czech Republic but largely under-recorded as it lives in forest litter and is only rarely collected into sweep-nets (on the other hand, it can be effectively sampled with pitfall traps and sifting). Previous Czech records come from the Krkonoše Mts. and their foothills in north-eastern Bohemia, Jeseníky Mts. in northern Moravia, the Bohemian-Moravian Highlands, and the Moravian Karst (LAUTERER 1983, LAUTERER & BUREŠ 1984).

Erythria aureola (Fallén, 1806)

(NT)

Published records. LANG (1945a): Suchá Loz, Studený vrch hill (57).

Additional material examined. Valašské Klobouky, Bílé potoky NR (13), 16.vi.2006, 7 ♂♂ 1 ♀, IM. Vyškovec, Vyškovecké Bošacky (69), 27.vi.2004, 1 ♀, IM; 25.ix.2004, 1 ♂ 2 ♀♀, PK; 3.ix.2005, 7 ♂♂ 5 ♀♀, PK.

Distribution and frequency in the Bílé Karpaty PLA: Rare and local: recently recorded from only two sunny sites with short, species-rich vegetation in the central and north-eastern parts of the area (a sunny forest margin and a small orchard). **General distribution:** European. **Host plants:** On low-growing herbs or dwarf shrubs (mainly *Thymus* spp. and *Calluna vulgaris*, but also on *Globularia cordifolia* and *Teucrium montanum* in the Alps). **Red List status:** Near-threatened.

Comments. *Erythria aureola* is a widespread but quite local species in the Czech Republic, scattered in dry grasslands and heathlands of central and northern Bohemia and

southern and northern Moravia (DLABOLA 1954, MALENOVSKÝ 2006, MALENOVSKÝ *et al.* 2011).

Erythria manderstjernii (Kirschbaum, 1868)

Material examined. Valašské Klobouky, Javorůvky NR (7), 22.v.1999, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Documented from only one site in the north-easternmost part of the area; collected at a humid forest margin. **General distribution:** European high mountains. **Host plants:** Polyphagous on dicotyledonous herbs (e.g. *Ranunculus*, *Senecio*, *Eupatorium*, *Chaerophyllum*, and *Vaccinium* spp.). **Red List status:** –.

Comments. A psychrophilous species, common in the Czech Republic in the mountains, namely the Jizerské hory, Krkonoše, Šumava, Jeseníky, and Moravskoslezské Beskydy Mts. (DLABOLA 1954) but largely absent from warmer areas and lower altitudes.

Erzaleus metrius (Flor, 1861)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Radějovka brook valley (79).

Additional material examined. Valašské Klobouky, Královec hill (11), 13.ix.1999, many ♂♂ ♀♀, IM. Bylnice, railway station environs (27), 11.ix.1999, 1 ♂ 2 ♀♀, IM. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 13 ♂♂ 17 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Probably scattered throughout the area and locally common, particularly on banks of rivers and brooks. **General distribution:** Eurosiberian. **Host plant:** *Phalaris arundinacea*. **Red List status:** –.

Eupelix cuspidata (Fabricius, 1775)

Published records. LANG (1945a): Korytná, Lipiny forest (38); Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99); Suchá Loz, Studený vrch hill (57). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Poteč, Ploštiny NR (12), 17.viii.2006, 1 ♂ 1 ♀, PK. Nedašov, Jalovcová stráž NR (17), 20.v.1999, 2 ♂♂ 1 ♀; 3.vii.1999, 1 ♂ 1 ♀ 1 larva; 28.v.2005, 3 ♂♂; 6.ix.2005, 1 ♀; all IM. Nedašov, Kaňoury NM (18), 17.vi.2006, 2 ♂♂ 1 ♀, IM. Bylnice, Na Stráži (25), 16.vi.2006, 1 ♂, IM. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 1 ♀; 28.vii.2005, 1 ♂ 2 ♀♀; all IM. Horní Němčí, Drahy NR (48), 23.v.2002, 1 ♂, PK. Strání, Obecnice hill (60), 24.v.2001, 1 ♂, IM. Lopeník, Lopenické sedlo (64), 24.vii.2005, 7 ♂♂, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 2 ♂♂ 1 ♀ 1 larva; 8.viii.2007, 2 ♀♀; all IM. Kněždub, Kněždubský háj forest (75), 20.ix.2001, 1 ♂, IM. Malá Vrbka, Výzkum hill (80), 22.vi.2001, 1 ♂, IM & PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 19.vi.2000, 1 ♂ 1 ♀, PK. Suchov, Suchovské Mlýny (89), 26.v.2005, 5 ♂♂, IM. Suchov, Trnovský Mlýn (90), 1.x.2004, 1 larva; 26.v.2005, 13 ♂♂; 27.vii.2005, 3 ♂♂ 2 ♀♀; all IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♀; 10.ix.2000, 1 ♂; both IM. Javorník, Petruchovy Mlýny (97), 17.vii.2002, 1 ♀, IM. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 1 ♂, IM. Strání, Záhumenice NM (104), 24.v.2001, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area in sunny pastures, dry meadows and fragments of xerothermic

grassland. **General distribution:** Palearctic. **Host plants:** Fine-leaved *Festuca* spp.
Red List status: –.

Eupterycyba jucunda (Herrich-Schäffer, 1837)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Starý Hrozenkov, Hrozenkovské terasy (68), 8.viii.2007, 1 ♀, IM. Radějov, Měsíční údolí valley (84), 20.viii.2002, 1 ♀, PK. Strání, Záhumenice NM (104), 21.ix.2001, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Quite rarely recorded in the south-western and central parts of the area. **General distribution:** European. **Host plant:** *Alnus glutinosa*. **Red List status:** –.

Eupteryx atropunctata (Goeze, 1778)

Published records. LANG (1945a): Korytná, Lipiny forest (38); Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99); Suchá Loz, Studený vrch hill (57). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 1 ♀; 13.ix.1999, LT, 1 ♂; all IM. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 2 ♂♂, IM. Poteč, Ploštiny NR (12), 1.vi.2002, 3 ♂♂ 2 ♀♀, IM. Valašské Klobouky, Bílé potoky NR (13), 9.ix.1999, 2 ♂♂ 3 ♀♀; 16.vi.2006, 1 ♀; all IM. Bylnice, Na Stráži (25), 16.vi.2006, 1 ♂ 1 ♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 5 ♂♂, IM. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 2 ♀♀; 6.ix.2005, 2 ♀♀; all IM. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 4 ♂♂ 3 ♀♀, IM. Hluk, Kobylí hlava NM (35), 24.viii.2002, 3 ♂♂ 1 ♀, IM. Blatnička, Milejovské louky meadows (39), 24.v.2009, 2 ♂♂ 1 ♀; 11.vii.2009, 1 ♂ 4 ♀♀; 16.viii.2009, 1 ♀; all PB. Korytná, Březí (46), 5.vii.2001, 2 ♂♂ 2 ♀♀, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, 1 ♂, IM; 13.viii.2001, 2 ♀♀, PK; 21.ix.2001, 1 ♀, PK; 21.vii.2002, 1 ♂ 1 ♀, IM; 10.ix.2002, 40 ♂♂ ♀♀, IM. Horní Němčí, Vinohrádky (49), 13.viii.2001, 1 ♂ 2 ♀♀, PK; 23.v.2002, 1 ♀, IM & PK; 20.vii.2002, 5 ♀♀, IM; 10.ix.2002, 1 ♂ 2 ♀♀, IM. Komňa, Nový Dvůr (53), 21.viii.1984, 2 ♂♂, PL. Strání, Obecnice hill (60), 24.v.2001, 1 ♂, IM; 2.vii.2001, 1 ♂, IM & PK; 21.ix.2001, 2 ♂♂ 3 ♀♀, IM; 23.v.2002, 3 ♂♂ 4 ♀♀, IM; 20.vii.2002, 2 ♀♀, IM; 12.ix.2002, 1 ♂, IM. Lopeník, U Zvonice NM (63), 27.vi.2004, 2 ♀♀; 25.ix.2004, 1 ♂; 24.vii.2005, 1 ♂ 2 ♀♀; all IM. Starý Hrozenkov, Skalka quarry (67), 22.ix.2007, 1 ♂, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 2 ♂♂; 8.viii.2007, 1 ♂; 22.ix.2007, 1 ♂ 4 ♀♀; all IM. Vyskovec, Vyskovecké Bošačky (69), 19.viii.2004, 2 ♀♀, PK; 25.ix.2004, 1 ♂ 1 ♀, PK; 24.vii.2005, 1 ♀, PK; 3.ix.2005, 1 ♀, PK. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂ 1 ♀; 28.vii.2000, 1 ♂; all IM. Radějov, Lučina (76), 13.v.1998, several ♂♂ ♀♀, IM. Kněždub, Čertoryje NNR (77, 79), 19.vi.1980, 2 ♂♂ 2 ♀♀, PL. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 62 ♂♂ 14 ♀♀, MT, JM & PC. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 4 ♂♂ 6 ♀♀; 27.vii.2000, 11 ♂♂ 6 ♀♀; all IM & PK. Hrubá Vrbka, football ground (82), 20.ix.2001, 8 ♂♂ 4 ♀♀, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♀, IM; 20.viii.2002, 1 ♂ 1 ♀, PK. Radějov, Kútky NR (86), 2.vi.1979, 3 ♂♂, PL. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 14.v.1998, 1 ♂; 9.–10.ix.2000, 2 ♂♂ 3 ♀♀; all IM. Suchov, Suchovské Mlýny (89), 23.vi.2004, 1 ♂, IM; 18.viii.2004, 1 ♀, PK; 1.x.2004, 10 ♂♂ 26 ♀♀, IM; 26.v.2005, 6 ♂♂ 2 ♀♀, IM; 1.ix.2005, 2 ♂♂ 7 ♀♀, IM. Suchov, Trnovský Mlýn (90), 1.x.2004, 1 ♀, IM. Javorník, village (92), 8.viii.2001, 1 ♀, PK. Javorník, Nad Vápenkou NM (94), 7.ix.1998, many ♂♂ ♀♀; 7.ix.2002, 2 ♂♂ 2 ♀♀; all IM. Javorník, loampit W of village (95), 24.v.2002, 11 ♂♂ 1 ♀, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♀; 10.ix.2000, 1 ♂ 2 ♀♀; all IM. Javorník, Petruchovy Mlýny (97), 2.ix.2004, 2 ♂♂ 1 ♀; 1.x.2004, 6 ♀♀; 26.v.2005, 2 ♀♀; 27.vii.2005, 1 ♀; 1.ix.2005, 1 ♂ 11 ♀♀; all IM. Javorník, Machová NR (102), 4.vi.2010, 1 ♀, MT, JM & PC. Strání, Záhumenice NM (104), 8.vi.2001, 2 ♂♂ 2 ♀♀, PL; 2.vii.2001, 2 ♀♀, IM & PK; 9.viii.2001, 3 ♂♂ 8 ♀♀, PK; 21.ix.2001, 3 ♂♂ 2 ♀♀, IM; 15.vi.2010, 5 ♂♂, MT, JM & PC.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; eurytopic in open, dry to wet sites: meadows and pastures, ruderal

sites, abandoned and cultivated fields, spring fens etc. **General distribution:** European. **Host plants:** Polyphagous on dicotyledonous herbs (e.g. various Lamiaceae, *Verbascum*, *Solanum* etc.). **Red List status:** –.

Eupteryx aurata (Linnaeus, 1758)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Petrůvka, U Petrůvky NM (3), 6.viii.1999, 2 ♂♂, PK. Valašské Klobouky, U Rybníků (6), 10.ix.1999, 1 ♂, IM. Valašské Klobouky, Javorůvky NR (7), 2.vii.1999, 1 ♀; 11.ix.1999, 1 ♀; all IM. Valašské Klobouky, Dobšená NM (8), 10.ix.1999, 2 ♀♀, IM. Valašské Klobouky, Brumovka brook valley (9), 9.ix.1999, 1 ♀, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 2 ♂♂, IM. Valašské Klobouky, Královec hill (11), 10.ix.1999, 2 ♂♂ 4 ♀♀, IM. Poteč, Ploštiny NR (12), 4.vii.1999, 2 ♂♂ 2 ♀♀, IM; 13.ix.1999, 5 ♂♂ 5 ♀♀, IM; 17.viii.2006, 1 ♂ 2 ♀♀, PK. Valašské Klobouky, Bílé potoky NR (13), 30.vi.1999, 1 ♂ 3 ♀♀, PK; 9.ix.1999, 3 ♂♂ 1 ♀, IM; 23.viii.2002, 1 ♂, PK; 16.vi.2006, 1 ♀, IM; 14.viii.2006, 1 ♂, PK. Brumov, Uhlíčky (14), 28.vii.2005, 1 ♂ 1 ♀, PK. Nedašov, Kaňoury NM (18), 12.vii.2006, 1 ♀, PK. Brumov, Kloboucká street (24), 30.vi.2004, 1 ♀ 7 larvae, IM. Bylnice, Bylničky (26), 24.vi.1982, 7 ♂♂ 7 ♀♀, PL. Bylnice, railway station environs (27), 11.ix.1999, 8 ♂♂ 7 ♀♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Plánava hill (28), 1.vii.1999, 1 ♂ 1 ♀, PK. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 1 ♂, IM. Horní Němčí, village (44), 10.ix.1998, 1 ♂, IM. Korytná, Březí (46), 5.vii.2001, 1 ♀, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 4 ♂♂, IM. Horní Němčí, Drahy NR (48), 15.v.1998, several ♂♂ ♀♀, IM. Korytná, Lubná pond environs (56), 5.vii.2001, 1 ♂ 2 ♀♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 2 ♀♀; 10.ix.1998, 1 ♂; all IM. Lopeník, Mikulčín vrch hill (65), 25.ix.2004, 8 ♂♂ 13 ♀♀, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♀; 8.viii.2007, 5 ♂♂ 2 ♀♀; 22.ix.2007, 6 ♂♂ 7 ♀♀; all IM. Vyškovec, Pod Hřibovňou NM (70), 25.ix.2004, 1 ♂, PK. Radějov, Lučina (76), 17.vi.2000, 1 ♂ 5 ♀♀, IM; 22.vi.2001, 2 ♂♂, IM & PK. Kněždub, Čertoryje NNR (77, 79), 19.vi.1980, 1 ♂, PL. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 2 ♂♂ 2 ♀♀, MT, JM & PC. Hrubá Vrbka, football ground (82), 20.ix.2001, 1 ♂, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 4 ♂♂ 3 ♀♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 5 ♂♂ 2 ♀♀, IM. Javorník, village (92), 24.v.2002, 1 ♂, IM. Javorník, loampit W of village (95), 24.v.2002, 1 ♀, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 4 ♂♂ 12 ♀♀; 10.ix.2000, 5 ♂♂ 2 ♀♀; all IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, many ♂♂ ♀♀, IM. Javorník, Machová NR (102), 14.v.1998, 1 ♂, IM; 14.vi.2010, 2 ♂♂, MT, JM & PC. Strání, Záhumenice NM (104), 8.vi.2001, 1 ♀, PL; 15.vi.2010, 3 ♂♂ 1 ♀, MT, JM & PC. Strání, Javorina NNR (106), 4.vii.2001, 10 ♂♂ 5 ♀♀, IM & PK; 8.vii.–9.x.2003, PT, 1 ♂, IT & JT.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; mainly in relatively humid and half-shaded to shaded habitats, e.g. wet meadows, floodplains of brooks, and forest undergrowth. **General distribution:** European. **Host plants:** Polyphagous on dicotyledonous herbs (e.g. *Urtica dioica*, *Senecio*, *Petasites*, *Arctium*, *Cirsium*, *Lamium*, *Mentha* spp., *Heracleum sphondylium*). **Red List status:** –.

Eupteryx calcarata Ossiannilsson, 1936

Material examined. Korytná, Březí (46), 5.vii.2001, 1 ♂, IM. Strání, Obecnice hill (60), 2.vii.2001, 7 ♂♂ 5 ♀♀, IM & PK; 9.viii.2001, 2 ♀♀, PK; 21.ix.2001, 1 ♂ 2 ♀♀, IM. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 2 ♂♂, MT, JM & PC. Hrubá Vrbka, village (83), 9.–12.vii.2009, 1 ♂, ZM. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂, IM. Strání, Záhumenice NM (104), 15.vi.2010, 1 ♂, MT, JM & PC. Strání, Javorina NNR (106), 4.vii.2001, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Documented largely from the south-western part of the area; in pastures and eutrophicated grassland. **General distribution:** Western Palaearctic. **Host plant:** *Urtica dioica*. **Red List status:** –.

***Eupteryx collina* (Flor, 1861)**

(VU)

Material examined. Horní Němčí, Drahy NR (48), 10.ix.2002, 19 ♂♂ 5 ♀♀, IM. Horní Němčí, Vinohrádky (49), 21.ix.2001, 1 ♂ 1 ♀, PK. Starý Hrozenkov, Hrozenkovské terasy (68), 8.viii.2007, 1 ♀; 22.ix.2007, 1 ♂ 1 ♀; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Local and quite rare: collected only in three localities in the south-western and central parts of the area; in spring fens disturbed by cattle. **General distribution:** European. **Host plant:** *Mentha longifolia*. **Red List status:** Vulnerable.

Comments. A rare or poorly documented species in the Czech Republic. Some previously published records (e.g. DLABOLA 1954) had been misidentified and refer to *E. florida*. Recently confirmed in one locality in the environs of Bučovice in south-eastern Moravia (MALENOVSKÝ *et al.* 2011).

***Eupteryx curtisii* Flor, 1861**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Radějovka brook valley (79).

Additional material examined. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 1 ♂, IM. Horní Němčí, Drahy NR (48), 10.ix.2002, 1 ♂, IM. Vyškovec, Vyškovecké Bošačky (69), 25.ix.2004, 1 ♂, PK; 21.v.2005, 1 ♀, IM. Javorník, loampit W of village (95), 24.v.2002, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area but rare and collected in low numbers of specimens; in sunny grassland sites. **General distribution:** European. **Host plants:** Lamiaceae (e.g. *Teucrium scorodonia*, *Clinopodium vulgare*, *Stachys sylvatica*). **Red List status:** –.

***Eupteryx cyclops* Matsumura, 1906**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Radějovka brook valley (79).

Additional material examined. Valašské Klobouky, U Rybníků (6), 10.ix.1999, 2 ♂♂, IM. Valašské Klobouky, Dobšená NM (8), 2.vii.1999, 1 ♀; 10.ix.1999, 1 ♂ 1 ♀; all IM. Valašské Klobouky, Královec hill (11), 10.ix.1999, 5 ♂♂ 5 ♀♀, IM. Poteč, Ploščiny NR (12), 13.ix.1999, 8 ♂♂ 15 ♀♀, IM; 1.vi.2002, 1 ♂, IM; 17.viii.2006, 1 ♂, PK. Valašské Klobouky, Bílé potoky NR (13), 30.vi.1999, 1 ♂ 2 ♀♀, PK; 9.ix.1999, 1 ♂, IM; 23.viii.2002, 1 ♀, PK. Nedašov, Kaňoury NM (18), 12.vii.2006, 1 ♂ 4 ♀♀, PK. Bylnice, Bylničky (26), 24.vi.1982, 1 ♀, PL. Bylnice, railway station environs (27), 1.vii.1999, 1 ♀, MH & PK. 11.ix.1999, 8 ♂♂ 4 ♀♀, IM. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 2 ♂♂, IM. Korytná, Březí (46), 5.vii.2001, 7 ♀♀, IM. Suchoy, Kazivec brook valley (47), 9.ix.1998, 2 ♂♂ 1 ♀, IM. Korytná, Lubná pond environs (56), 5.vii.2001, 1 ♂ 3 ♀♀, IM. Lopeník, Mikulčín vrch hill (65), 25.ix.2004, 2 ♂♂ 2 ♀♀, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♂ 5 ♀♀; 8.viii.2007, 2 ♂♂ 5 ♀♀; 22.ix.2007, 4 ♂♂ 5 ♀♀; all IM. Radějov, Lučina (76), 28.vii.2000, 1 ♂ 1 ♀, IM & PK. Radějov, Lučina (76), 17.vi.2000, 4 ♂♂ 5 ♀♀, IM; 22.vi.2001, 2 ♂♂, IM & PK. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 10 ♂♂ 2 ♀♀, MT, JM & PC. Radějov, Měsíční údolí valley (84), 8.ix.1998, 4 ♂♂ 4 ♀♀, IM. Javorník, loampit W of village (95), 24.v.2002, 2 ♂♂, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 4 ♂♂ 24 ♀♀; 10.ix.2000, 15 ♂♂ 16 ♀♀,

IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 1 ♀, IM. Strání, Javorina NNR (106), 4.vii.2001, 4 ♂♂ 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; in forest undergrowth, in the vicinity of standing or running water, in eutrophicated wet grassland, and ruderal sites. **General distribution:** Eurosiberian. **Host plant:** *Urtica dioica*. **Red List status:** –.

***Eupteryx florida* Ribaut, 1936**

Material examined. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 1 ♂, MT, JM & PC. Malá Vrbka, Výzkum hill (80), 4.x.2002, 2 ♂♂ 5 ♀♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 1 ♂ 1 ♀, IM. Javorník, village (92), 8.viii.2001, 2 ♂♂ 3 ♀♀, PK; 24.v.2002, 1 ♂ 1 ♀, IM. Javorník, Jazevčí NNR (96), 6.v.2000, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Recorded only for the south-western part of the area; in ruderal sites (e.g. under shrubs along roads and paths), at forest margins, and in forest undergrowth. **General distribution:** Europe except the north, Mediterranean. **Host plants:** Lamiaceae (e.g. *Ballota nigra*, *Stachys sylvatica*, *Salvia officinalis*, *Melissa officinalis*). **Red List status:** –.

***Eupteryx heydenii* (Kirschbaum, 1868)**

(NT)

Material examined. Valašské Klobouky, Dobšená NM (8), 2.vii.1999, 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Recorded at only one site: a meadow with spring fens surrounded by forests in the north-easternmost tip of the area; apparently restricted by the limited distribution of the host plant in the Bílé Karpaty Mts. (see HÁJEK 1998, JONGEPIER & JONGEPIEROVÁ 2006, JONGEPIER & PECHANEC 2006). **General distribution:** Western Palaearctic. **Host plant:** *Chaerophyllum hirsutum*. **Red List status:** Near-threatened.

Comments. *Eupteryx heydenii* is a montane species known in the Czech Republic e.g. from the Jeseníky Mts., Šumava Mts., and the foothills of the Krkonoše Mts. (DLABOLA 1954 and additional material from the Moravian Museum, Brno).

***Eupteryx lelievrei* (Lethierry, 1874)**

(VU)

(Fig. 7)

Published records. LAUTERER (1983): Bylnice, Bylničky (26); Kněždub, Čertoryje NNR (77, 79); Javorník, SW slopes of Háj hill (93). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Javorůvky NR (7), 2.vii.1999, 2 ♂♂; 11.ix.1999, 1 ♂; all IM. Valašské Klobouky, Dobšená NM (8), 2.vii.1999, 1 ♂ 2 ♀♀; 10.ix.1999, 2 ♂♂ 1 ♀; all IM. Valašské Klobouky, Brumovka brook valley (9), 9.ix.1999, 3 ♂♂ 2 ♀♀, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 1 ♂, IM. Poteč, Ploščiny NR (12), 13.ix.1999, 1 ♂, IM; 1.vi.2002, 3 ♂♂ 1 ♀, IM; 24.viii.2002, 1 ♂ 1 ♀, PK. Valašské Klobouky, Bílé potoky NR (13), 16.vi.2006, 6 ♂♂ 5 ♀♀, IM; 14.viii.2006, 1 ♂ 1 ♀, PK. Nedašov, Kaňoury NM (18), 17.vi.2006, 1 ♂ 1 ♀, IM; 12.vii.2006, 4 ♀♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 1 ♀, IM. Hluk, Babí hora NM (36), 24.viii.2002, 1 ♂ 4 ♀♀, IM. Vyškovec, Vyškovecké Bošačky (69), 24.vii.2005, 1 ♀, PK. Vyškovec, Pod Hribovníou NM (70), 8.ix.2005, 3 ♂♂ 2 ♀♀, IM. Kněždub, Kněždubský háj forest (75), 22.vi.2001, 1 ♂ 1 ♀,

IM & PK. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 3 ♂♂ 2 ♀♀, MT, JM & PC. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 2 ♀♀, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 5 ♂♂ 4 ♀♀, IM. Javorník, Petruchovy Mlýny (97), 29.vi.2001, 1 ♀; 2.ix.2004, 2 ♂♂ 1 ♀; 1.ix.2005, 2 ♂♂; all IM. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 1 ♂ 1 ♀, IM. Javorník, Machová NR (102), 14.vi.2010, 5 ♂♂, MT, JM & PC. Strání, Záhumenice NM (104), 9.viii.2001, 1 ♀, PK; 23.v.2002, 1 ♀, PK; 15.vi.2010, 1 ♂, MT, JM & PC.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common throughout the area in species-rich meadows and along their margins. **General distribution:** European. **Host plant:** *Betonica officinalis*. **Red List status:** Vulnerable.

Comments. Outside of the Bílé Karpaty PLA, *E. lelievrei* is probably a rare and local species in the Czech Republic; there has been one additional record from the Třeboňsko PLA in southern Bohemia to date (I. Malenovský, unpublished).

Eupteryx notata Curtis, 1937

Published records. LANG (1945a): Korytná, Lipiny forest (38); Suchá Loz, Studený vrch hill (57). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79). KMENT & MALENOVSKÝ (2008): Strání, Záhumenice NM (104).

Additional material examined. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 2 ♂♂ 1 ♀, IM. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 1 ♂ 3 ♀♀, IM. Valašské Klobouky, Dobšená NM (8), 22.v.1999, 1 ♂; 10.ix.1999, 3 ♂♂ 2 ♀♀; all IM. Valašské Klobouky, Brumovka brook valley (9), 19.v.1999, 7 ♂♂; 9.ix.1999, 10 ♂♂; all IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 1 ♂, IM. Poteč, Ploščiny NR (12), 13.ix.1999, 5 ♂♂ 6 ♀♀, IM; 1.vi.2002, 1 ♂, IM; 24.viii.2002, 2 ♂♂ 2 ♀♀, PK. Valašské Klobouky, Bílé potoky NR (13), 16.vi.2006, 4 ♂♂ 3 ♀♀, IM. Brumov, Uhlíčky (14), 1.ix.2004, 2 ♂♂; 5.x.2004, 1 ♂ 5 ♀♀; all IM; 4.ix.2005, 4 ♂♂ 3 ♀♀, PK; 7.ix.–6.x.2005, 3 ♂♂, PT, KR. Nedašov, Jalovcová stráně NR (17), 20.v.1999, 2 ♂♂; 10.ix.1999, 4 ♂♂ 3 ♀♀; 28.v.2005, 1 ♂; 6.ix.2005, 2 ♂♂; 17.vi.2006, 1 ♂ 1 ♀; all IM. Nedašov, Kaňoury NM (18), 17.vi.2006, 5 ♂♂ 3 ♀♀, IM; 16.viii.2006, 1 ♂ 1 ♀, PK. Nedašov, Kaňúr hill and Hrušová dolina valley (19), 20.v.1999, 1 ♀, IM. Brumov, Kloboucká street (24), 28.v.2005, 1 ♂, IM; 4.vii.–6.viii.2005, 1 ♂; 7.ix.–6.x.2005, 1 ♂; both PT, KR. Bylnice, Na Stráži (25), 16.vi.2006, 2 ♂♂ 6 ♀♀; 11.vii.2006, 1 ♀; all IM. Bylnice, Bylničky (26), 24.vi.1982, 2 ♂♂, PL. Bylnice, railway station environs (27), 11.ix.1999, 5 ♂♂ 1 ♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, many ♂♂ ♀♀, IM. Nedašov, Pod Cigánem NM (30), 10.ix.1999, 1 ♂; 1.ix.2004, 6 ♂♂ 2 ♀♀; 5.x.2004, 1 ♂; 28.vii.2005, 5 ♂♂ 1 ♀; 6.ix.2005, 3 ♂♂ 1 ♀; all IM. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 1 ♂, IM. Blatnička, Milejovské louky meadows (39), 11.vii.2009, 1 ♂; 16.viii.2009, 1 ♀; all PB. Korytná, Břeží (46), 5.vii.2001, 2 ♂♂ 1 ♀, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, 1 ♂ 2 ♀♀; 30.vi.2001, 1 ♂; 23.v.2002, 1 ♀; 21.vii.2002, 1 ♂ 2 ♀♀; 10.ix.2002, 5 ♂♂ 5 ♀♀; all IM; 22.viii.–27.ix.2003, 2 ♂♂, PT, KR. Horní Němčí, Vinohrádky (49), 13.viii.2001, 1 ♀, PK; 21.ix.2001, 5 ♂♂, PK; 23.v.2002, 1 ♂ 1 ♀, IM & PK; 20.vii.2002, 4 ♂♂ 3 ♀♀, IM; 10.ix.2002, 11 ♂♂ 1 ♀, IM; 22.vi.–24.vii.2003, 2 ♂♂, PT, KR; 22.viii.–27.ix.2003, 3 ♂♂, PT, KR. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♂; 10.ix.1998, 6 ♂♂; all IM. Strání, Obecnice hill (60), 24.v.2001, 3 ♂♂ 1 ♀, IM; 2.vii.2001, 1 ♀, IM & PK; 23.v.2002, 2 ♂♂ 2 ♀♀, IM; 12.ix.2002, 2 ♂♂ 1 ♀, IM. Lopeník, U Zvonice NM (63), 25.ix.2004, 1 ♂, IM. Lopeník, Lopenické sedlo (64), 25.ix.2004, 2 ♀♀, IM; 24.vii.2005, 5 ♂♂ 3 ♀♀, IM; 3.ix.2005, 7 ♂♂ 4 ♀♀, PK; 20.v.–25.vi.2005, 1 ♂ 1 ♀; 26.vi.–26.vii.2005, 1 ♂; 26.vii.–26.viii.2005, 3 ♂♂; all PT, KR. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 11 ♂♂ 1 ♀; 8.viii.2007, 1 ♂ 2 ♀♀; 22.ix.2007, 3 ♂♂; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 4 ♂♂ 3 ♀♀; 8.viii.2007, 1 ♂ 1 ♀; 22.ix.2007, 5 ♂♂ 2 ♀♀; all IM. Výskovec, Výskovecké Bošacký (69), 27.vi.2004, 1 ♂ 1 ♀, IM; 19.viii.2004, 7 ♂♂ 10 ♀♀, PK; 25.ix.2004, 18 ♂♂ 8 ♀♀, PK; 21.v.2005, 2 ♂♂, IM; 24.vii.2005, 10 ♂♂ 9 ♀♀, PK; 3.ix.2005, 8 ♂♂ 6 ♀♀, PK. Výskovec, Pod Hřibovňou NM (70), 25.ix.2004, 2 ♂♂, PK. Kněždub, Čertoryje NNR (77, 79), 19.vi.1980, 1 ♂ 1 ♀, PL. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 7 ♂♂ 4 ♀♀, MT, JM & PC. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 2 ♂♂ 5 ♀♀, IM & PK. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♂, IM. Radějov, Kútky NR (86), 2.vi.1979, 3 ♀♀, PL. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 14.v.1998,

Leafhoppers and planthoppers (Hemiptera: Auchenorrhyncha)

1 ♂; 13.vii.1998, 3 ♂♂ 2 ♀♀; 9.–10.ix.2000, 2 ♂♂ 1 ♀; all IM. Suchov, Suchovské Mlýny (89), 23.vi.2004, 1 ♀, IM; 16.viii.2004, 2 ♀♀, PK; 1.x.2004, 12 ♂♂ 5 ♀♀, IM; 26.v.2005, 48 ♂♂ 26 ♀♀, IM; 27.vii.2005, 26 ♂♂ 8 ♀♀, IM; 1.ix.2005, 5 ♂♂ 2 ♀♀, IM. Suchov, Trnovský Mlýn (90), 1.x.2004, 11 ♂♂ 3 ♀♀; 26.v.2005, 5 ♂♂ 1 ♀; 27.vii.2005, 4 ♂♂; 1.ix.2005, 1 ♂; all IM. Velká nad Veličkou, towards Javorník (91), 10.vi.1982, 1 ♂ 1 ♀, PL. Javorník, village (92), 24.v.2002, 3 ♀♀, IM. Javorník, SW slopes of Háj hill (93), 19.vi.1980, 2 ♂♂, PL. Javorník, Nad Vápenkou NM (94), 7.ix.2002, 5 ♂♂, IM. Javorník, loampit W of village (95), 7.ix.1998, 1 ♂; 24.v.2002, 2 ♂♂, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂ 1 ♀; 10.ix.2000, 4 ♂♂ 2 ♀♀; all IM. Javorník, Petruchovy Mlýny (97), 2.ix.2004, 4 ♂♂; 26.v.2005, 1 ♂; 1.ix.2005, 1 ♂ 1 ♀; all IM. Javorník, Machová NR (102), 4.vi.2010, 1 ♂; 14.vi.2010, 12 ♂♂ 2 ♀♀; all MT, JM & PC. Javorník, Výzkum hill (103), 10.vi.1982, 1 m *, PL. Strání, Záhumenice NM (104), 24.v.2001, 36 ♂♂ 1 ♀, IM; 8.vi.2001, 3 ♂♂ 2 ♀♀, PL; 2.vii.2001, 5 ♂♂ 15 ♀♀, PK; 9.viii.2001, 56 ♂♂ 68 ♀♀, PK; 21.ix.2001, 45 ♂♂ 25 ♀♀, IM; 15.vi.2010, 21 ♂♂, MT, JM & PC. Strání, Javorina NNR (106), 4.vii.2001, 1 ♂; 29.x.2011, 2 ♂♂; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in sunny meadows and pastures throughout the area. **General distribution:** Europe, Kazakhstan. **Host plants:** Polyphagous on low-growing herbs (e.g. *Hieracium pilosella*, *Leontodon hispidus*, *Prunella*, *Thymus*, *Hypochaeris*, *Plantago* spp.). **Red List status:** –.

Eupteryx origani Zachvatkin, 1948

(VU)

Published records. LAUTERER (1983): Bylnice, Bylničky (26).

Additional material examined. Valašské Klobouky, Javorůvky NR (7), 2.vii.1999, 1 ♀; 11.ix.1999, 3 ♂♂; all IM. Valašské Klobouky, Dobšená NM (8), 2.vii.1999, 1 ♀; 10.ix.1999, 1 ♂; all IM. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 1 ♂ 6 ♀♀, MH; 9.ix.1999, 7 ♂♂ 3 ♀♀, IM. Poteč, Ploštiny NR (12), 4.vii.1999, 3 ♀♀, IM; 13.ix.1999, 6 ♂♂ 24 ♀♀, IM; 1.vi.2002, 24 ♂♂ 16 ♀♀, IM; 24.viii.2002, 3 ♂♂ 4 ♀♀, PK; 17.viii.2006, 4 ♂♂ 2 ♀♀, PK. Valašské Klobouky, Bílé potoky NR (13), 9.ix.1999, 1 ♀, IM; 23.viii.2002, 2 ♀♀, PK; 16.vi.2006, 2 ♂♂ 2 ♀♀, IM. Brumov, Uhličky (14), 30.vi.2004, 1 ♂; 1.ix.2004, 4 ♂♂ 4 ♀♀; 5.x.2004, 5 ♂♂ 3 ♀♀; 28.v.2005, 2 ♂♂; all IM; 28.vii.2005, 3 ♂♂ 3 ♀♀; 4.ix.2005, 4 ♂♂ 10 ♀♀; all PK. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 3 ♂♂ 6 ♀♀; 10.ix.1999, 2 ♂♂ 8 ♀♀; 17.vi.2006, 1 ♀; all IM. Nedašov, Kaňoury NM (18), 17.vi.2006, 5 ♂♂ 14 ♀♀, IM; 12.vii.2006, 2 ♂♂ 7 ♀♀, IM; 16.viii.2006, 4 ♂♂ 9 ♀♀, PK. Nedašov, Kaňúr hill and Hrušová dolina valley (19), 20.v.1999, 1 ♀, IM. Bylnice, Na Stráži (25), 16.vi.2006, 1 ♂ 1 ♀; 11.vii.2006, 2 ♀♀; all IM. Bylnice, railway station environs (27), 11.ix.1999, 2 ♂♂, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 4 ♂♂, IM. Nedašov, Pod Cigánem NM (30), 5.x.2004, 1 ♂, IM. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 1 ♂, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♂ 4 ♀♀, IM & PK. Březová, Kalábová NM (58), 4.vii.2001, 1 ♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 2 ♂♂ 1 ♀, IM. Lopeník, U Zvonice NM (63), 3.ix.2005, 2 ♂♂ 1 ♀, PK. Lopeník, Lopenické sedlo (64), 25.ix.2004, 2 ♂♂, IM; 24.vii.2005, 2 ♀♀, IM; 3.ix.2005, 1 ♂ 1 ♀, PK. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♀; 22.ix.2007, 1 ♀; both IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 2 ♀♀; 8.viii.2007, 1 ♀; all IM. Vyskovec, Pod Hřibovňou NM (70), 28.vi.2004, 1 ♀, IM; 25.ix.2004, 1 ♂, PK; 8.ix.2005, 1 ♂ 4 ♀♀, IM. Strání, Javorina NNR (106), 4.vii.2001, 2 ♂♂ 3 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Common in the north-eastern and central parts of the area, absent from the south-west except the meadow on the top of Mt Velká Javořina; in species-rich meadows and pastures and along their margins. **General distribution:** European. **Host plant:** *Origanum vulgare* (perhaps not exclusively). **Red List status:** Vulnerable.

Comments. The distribution of *E. origani* in the Czech Republic is, as far as known, restricted to mountains. Besides the Bílé Karpaty PLA, the species has been recorded from the Hostýnské vrchy Hills, Moravskoslezské Beskydy, Jizerské hory and Krušné hory Mts. (LAUTERER 1983, 1984; unpublished data from the Moravian Museum, Brno).

***Eupteryx stachydearum* (Hardy, 1850)**

Published records. LANG (1945a): Korytná, Lipiny forest (38). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Valašské Klobouky, U Rybníků (6), 10.ix.1999, 4 ♂♂ 3 ♀♀, IM. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 2 ♂♂, IM. Valašské Klobouky, Dobšená NM (8), 2.vii.1999, 1 ♂ 1 ♀; 10.ix.1999, 1 ♂; all IM. Valašské Klobouky, Královec hill (11), 10.ix.1999, 22 ♂♂ 16 ♀♀, IM. Poteč, Ploščiny NR (12), 4.vii.1999, 3 ♂♂ 2 ♀♀, IM; 13.ix.1999, 5 ♂♂ 4 ♀♀, IM; 17.viii.2006, 1 ♂, PK. Valašské Klobouky, Bílé potoky NR (13), 30.vi.1999, 1 ♂ 3 ♀♀, PK; 9.ix.1999, 2 ♂♂ 1 ♀, IM; 23.viii.2002, 1 ♂ 3 ♀♀, PK; 16.vi.2006, 1 ♂, IM; 14.viii.2006, 1 ♀, PK. Nedašov, Kaňoury NM (18), 17.vi.2006, 2 ♀♀, IM; 16.viii.2006, 1 ♂, PK. Bylnice, Bylničky (26), 24.vi.1982, 1 ♂, PL. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 9 ♂♂ 9 ♀♀, IM. Horní Němčí, Hornoněmčanský háj forest (45), 10.ix.2002, 5 ♂♂ 5 ♀♀, IM. Korytná, Březi (46), 5.vii.2001, 1 ♂ 1 ♀, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 2 ♂♂ 1 ♀, IM & PK. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 2 ♀♀, IM. Lopeník, Mikulčín vrch hill (65), 24.vii.2005, 1 ♂ 1 ♀, IM. Starý Hrozenkov, Skalka quarry (67), 22.ix.2007, 3 ♀♀, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 22.ix.2007, 1 ♂ 1 ♀, IM. Radějov, Lučina (76), 17.vi.2000, 2 ♂♂ 1 ♀, IM; 28.vii.2000, 3 ♀♀; 22.vi.2001, 2 ♂♂; all IM & PK. Malá Vrbka, Výzkum hill (80), 20.ix.2001, 1 ♂, IM & PK. Radějov, Měsíční údolí valley (84), 8.ix.1998, 2 ♀♀, IM. Radějov, Kútky NR (86), 2.vi.1979, 1 ♂ 1 ♀, PL. Javorník, loampit W of village (95), 24.v.2002, 1 ♂, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂ 5 ♀♀; 10.ix.2000, 2 ♂♂ 3 ♀♀; all IM. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 1 ♂, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 1 ♂, IM. Javorník, Machová NR (102), 14.vi.2010, 1 ♂ 3 ♀♀, MT, JM & PC. Strání, Javorina NNR (106), 4.vii.2001, 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in forest undergrowth and along forest roads throughout the area. **General distribution:** European. **Host plants:** Lamiaceae (mainly *Stachys sylvatica* and *Galeobdolon* spp.). **Red List status:** –.

***Eupteryx tenella* (Fallén, 1806)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Nedašov, Jalovcová stráž NR (17), 1.ix.2004, 1 ♂; 28.v.2005, 2 ♀♀; all IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 1 ♀, IM. Nedašov, Pod Cigánem NM (30), 6.ix.2005, 2 ♀♀, IM. Horní Němčí, Drahy NR (48), 10.ix.2002, 1 ♂, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♂, IM. Vyškovec, Vyškovcecké Bošačky (69), 3.ix.2005, 1 ♂, PK. Malá Vrbka, Výzkum hill (80), 20.ix.2001, 1 ♀, IM & PK. Javorník, Petruchovy Mlýny (97), 23.ix.2001, 1 ♀, IM; 24.v.2002, 1 ♀, PK. Javorník, Machová NR (102), 14.vi.2010, 1 ♂, MT, JM & PC. Strání, Záhumenice NM (104), 8.vi.2001, 1 ♀, PL; 9.viii.2001, 1 ♂, PK; 21.ix.2001, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area but quite uncommon; mostly found under solitary trees scattered in meadows and pastures or in grassland along forest margins. **General distribution:** European. **Host plant:** *Achillea millefolium* agg. **Red List status:** –.

***Eupteryx urticae* (Fabricius, 1803)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Radějovka brook valley (79).

Additional material examined. Valašské Klobouky, Bílé potoky NR (13), 9.ix.1999, 1 ♂; 11.vii.2006, 1 ♀; both IM. Nedašov, Kaňoury NM (18), 12.vii.2006, 2 ♂♂, PK. Bylnice, railway station environs (27), 11.ix.1999, 1 ♂ 2 ♀♀, IM. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 1 ♂ 1 ♀, IM. Korytná, Březi (46),

Leafhoppers and planthoppers (Hemiptera: Auchenorrhyncha)

5.vii.2001, 2 ♂♂, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, ?2 ♀♀, IM & PK. Korytná, Lubná pond environs (56), 5.vii.2001, ?1 ♀, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 2 ♀♀; 8.viii.2007, 1 ♂ 4 ♀♀; 22.ix.2007, 1 ♂ 3 ♀♀; all IM. Radějov, Lučina (76), 17.vi.2000, 1 ♂ 2 ♀♀, IM; 28.vii.2000, 1 ♀; 22.vi.2001, 3 ♂♂ 3 ♀♀; all IM & PK. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 2 ♂♂, MT, JM & PC. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♂ 1 ♀, IM; 20.viii.2002, 1 ♀, PK. Javorník, Jazevčí NNR (96), 19.vi.2000, 9 ♂♂ 6 ♀♀; 10.ix.2000, 9 ♂♂ 7 ♀♀; all IM. Strání, Záhumenice NM (104), 15.vi.2010, 1 ♂, MT, JM & PC. Strání, Javorina NNR (106), 4.vii.2001, 8 ♂♂ 3 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common throughout the area, e.g. near standing or running water and in forest undergrowth. **General distribution:** European. **Host plant:** *Urtica dioica*. **Red List status:** –.

Eupteryx vittata (Linnaeus, 1758)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, U Rybníků (6), 10.ix.1999, 2 ♂♂ 3 ♀♀, IM. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, many ♂♂ ♀♀, IM. Valašské Klobouky, Brumovka brook valley (9), 9.ix.1999, 1 ♂ 2 ♀♀, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 1 ♂, IM. Valašské Klobouky, Královec hill (11), 10.ix.1999, 2 ♂♂ 4 ♀♀, IM. Valašské Klobouky, Bílé potoky NR (13), 30.vi.1999, 3 ♀♀, PK; 9.ix.1999, 2 ♂♂ 1 ♀, IM; 23.viii.2002, 1 ♂, PK; 16.vi.2006, 1 ♂, IM; 14.viii.2006, 1 ♀, PK. Brumov, Uhličky (14), 30.vi.2004, 1 ♂ 1 ♀; 28.v.2005, 1 ♀; all IM. Bylnice, Bylničky (26), 24.vi.1982, 2 ♂♂, PL. Bylnice, railway station environs (27), 11.ix.1999, 1 ♀, IM. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 1 ♂, IM. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 1 ♂, IM. Korytná, Březí (46), 5.vii.2001, 1 ♂ 2 ♀♀, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 2 ♂♂, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 3 ♀♀, IM & PK. Korytná, Lubná pond environs (56), 5.vii.2001, 1 ♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♂ 3 ♀♀; 10.ix.1998, 1 ♂ 1 ♀; all IM. Lopeník, U Zvonice NM (63), 3.ix.2005, 1 ♂, PK. Lopeník, Mikulčín vrch hill (65), 25.ix.2004, 4 ♂♂, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 22.ix.2007, 1 ♂, IM. Radějov, Lučina (76), 17.vi.2000, 1 ♂ 1 ♀, IM; 22.vi.2001, 1 ♂, IM & PK. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 2 ♂♂, MT, JM & PC. Radějov, Měsíční údolí valley (84), 8.ix.1998, 3 ♂♂, IM. Radějov, Veselka hill (85), 11.vii.1998, 1 ♀, IM. Radějov, Kútky NR (86), 2.vi.1979, 1 ♂, PL. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 2 ♂♂ 2 ♀♀, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂; 10.ix.2000, 1 ♂; both IM. Nová Lhota, Fojtické Mlýny (98), 7.vii.1980, 1 ♂, PL. Strání, Záhumenice NM (104), 8.vi.2001, 1 ♂ 1 ♀, PL; 2.vii.2001, 1 ♂ 2 ♀♀, PK. Strání, Javorina NNR (106), 4.vii.2001, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; in wet meadows, along brooks and in forest undergrowth. **General distribution:** European. **Host plants:** Polyphagous on dicotyledonous herbs (e.g. *Ranunculus repens*, *Glechoma hederacea*, *Ajuga reptans*, *Valeriana dioica*). **Red List status:** –.

Eurhadina concinna (Germar, 1831)

Published records. LANG (1945a): Suchá Loz, Studený vrch hill (57). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Bílé potoky NR (13), 9.ix.1999, 1 ♀; 11.vii.2006, 1 ♂ 1 ♀; all IM. Bylnice, Bylničky (26), 24.vi.1982, 1 ♂, PL. Boršice u Blatnice, Boršický potok brook valley (41), 16.viii.1984, 2 ♀♀, PL. Korytná, Březí (46), 5.vii.2001, 2 ♀♀, IM. Lopeník, U Zvonice NM (63), 25.ix.2004, 1 ♀, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♀, IM. Radějov, Holý vrch hill (74), 8.ix.1998, 1 ♀, IM. Radějov, Lučina (76), 14.vii.1998, 1 ♀, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 2 ♀♀, IM. Radějov, Kútky NR (86), 11.vii.1998, 1 ♀; 8.ix.1998, 3 ♂♂ 11 ♀♀; all IM. Velká nad Veličkou, Zahrady pod

Hájem NNR (88), 13.vii.1998, 1 ♀; 9.–10.ix.2000, 3 ♀♀, IM. Javorník, loampit W of village (95), 7.ix.1998, 1 ♀, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♀; 10.ix.2000, 1 ♀; both IM. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 2 ♀♀; 9.ix.1998, 1 ♂; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common on solitary oaks scattered in grasslands and at forest margins. **General distribution:** European. **Host plants:** *Quercus robur*, *Qu. petraea*, rarely also on some other deciduous trees. **Red List status:** –.

Eurhadina loewii (Then, 1886)

Material examined. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 2 ♂♂ 2 ♀♀; 28.vii.2000, 1 ♀; all IM. Radějov, Veselka hill (85), 11.vii.1998, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Recorded from two sites along forest roads in the south-western part of the area, perhaps rare or under-recorded. **General distribution:** European. **Host plant:** *Acer pseudoplatanus*. **Red List status:** –.

Eurhadina pulchella (Fallén, 1806)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 1 ♀, IM. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 4 ♂♂ 4 ♀♀, IM; 14.viii.2006, 2 ♀♀, PK. Nedašov, Jalovcová stráž NR (17), 12.vii.2006, 1 ♀, IM. Nedašov, Kaňoury NM (18), 12.vii.2006, 2 ♀♀, IM; 16.viii.2006, 2 ♀♀, PK. Rokytnice, Bukovina hill (23), 21.viii.1984, 1 ♀, PL. Boršice u Blatnice, Boršický potok brook valley (41), 16.viii.1984, 2 ♂♂ 1 ♀, PL. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♂, IM & PK. Korytná, Lubná pond environs (56), 5.vii.2001, 1 ♂, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♂; 8.viii.2007, 1 ♀; both IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂ 2 ♀♀; 28.vii.2000, 1 ♂; all IM. Radějov, Lučina (76), 14.vii.1998, 3 ♂♂ 1 ♀, IM. Radějov, Kútky NR (86), 8.ix.1998, 1 ♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 2 ♀♀; 9.–10.ix.2000, 1 ♀, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 4 ♂♂, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common on solitary oaks scattered in grasslands and along forest margins. **General distribution:** Palaearctic. **Host plants:** *Quercus robur* and *Qu. petraea*. **Red List status:** –.

Eurhadina saageri Wagner, 1937

(VU)

Material examined. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 1 ♂, IM. Radějov, Lučina (76), 14.vii.1998, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Rare and local: documented only from two sites in the north-eastern and south-western parts of the area; on solitary oaks and along forest margins. **General distribution:** European. **Host plant:** *Quercus robur*. **Red List status:** Vulnerable.

Comments. *Eurhadina saageri* is a widespread but sporadic species in the Czech Republic; published records are from Plzeň, Přerov, Brno, and the environs of Moravský Krumlov (LAUTERER 1958, 1995b; MALENOVSKÝ *et al.* 2011).

***Euscelis distinguendus* (Kirschbaum, 1858) (VU)**

Material examined. Malá Vrbka, Výzkum hill (80), 28.vii.2001, 1 ♂, IM & PK; 27.vi.2002, 13 ♂♂ 19 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Known from only one site: an abandoned field on a sunny hillside in the south-western part of the area. **General distribution:** Eurosiberian. **Host plants:** Asteraceae (probably *Taraxacum* spp., *Picris hieracioides*, *Hieracium* spp.). **Red List status:** Vulnerable.

Comments. Local and rare in the Czech Republic, with published records from north-eastern Bohemia and south-eastern Moravia (DLABOLA 1954).

***Euscelis incisus* (Kirschbaum, 1858)**

Published records. LANG (1945a): Korytná, Lipiny forest (38); Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99); Suchá Loz, Studený vrch hill (57). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Velašské Klobouky, Bílé potoky NR (13), 9.ix.1999, 1 ♀, IM. Brumov, Uhličky (14), 1.ix.2004, 1 ♀; 5.x.2004, 5 larvae; all IM; 5.iv.–4.v.2005, 1 ♂, PT, KR; 28.vii.2005, 3 ♂♂ 1 larva, PK. Nedašov, Jalovcová stráň NR (17), 20.v.1999, 1 ♀; 10.ix.1999, 1 ♀; both IM. Brumov, Kloboucká street (24), 28.vii.2005, 1 ♀, PK. Bylnice, railway station environs (27), 21.v.1999, 1 ♀, IM. Bylnice, Bylničky (26), 24.vi.1982, 1 ♀, PL. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 2 larvae, IM. Hluk, Kobylí hlava NM (35), 24.viii.2002, 1 ♀, IM. Blatnička, Milejovské louky meadows (39), 16.viii.2009, 1 ♂, PB. Suchov, Kazivec brook valley (47), 9.ix.1998, 2 ♂♂ 1 ♀, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, 1 ♀; 30.vi.2001, 1 ♂; 23.v.2002, 3 larvae; 21.vii.2002, 1 ♂ 4 ♀♀; all IM. Horní Němčí, Vinohrádky (49), 30.vi.2001, 5 ♂♂ 35 larvae, IM; 13.viii.2001, 1 ♂ 8 ♀♀ 1 larva, PK; 21.ix.2001, 1 ♂ 3 larvae, PK; 23.v.2002, 2 ♀♀, IM & PK; 20.vii.2002, 112 ♂♂ 109 ♀♀ 35 larvae, IM; 10.ix.2002, 27 ♂♂ 19 ♀♀ 127 larvae, IM. Horní Němčí, Lesná hill (51), 15.v.1998, 2 ♀♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 1 ♂ 2 ♀♀, IM. Strání, Obecnice hill (60), 21.ix.2001, 1 larva; 20.vii.2002, 1 ♂ 4 ♀♀; 12.ix.2002, 2 ♀♀ 9 larvae; all IM. Lopeník, Lopenické sedlo (64), 27.vi.2004, 2 larvae, IM; 21.v.2005, 1 ♀, IM; 3.ix.2005, 1 ♀, PK. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 2 ♂♂, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♂ 1 ♀, IM. Výškovce, Výškovce Bošačky (69), 27.vi.2004, 1 larva, IM; 19.viii.2004, 2 ♂♂ 2 ♀♀, PK; 21.v.2005, 1 ♂ 1 ♀, IM; 24.vii.2005, 4 ♂♂ 1 ♀ 1 larva; 3.ix.2005, 1 ♂ 2 ♀♀, PK. Radějov, Lučina (76), 13.v.1998, several ♂♂ ♀♀, IM. Radějov, Žerotín NM (73), 19.iv.2012, 1 ♂, IM. Lipov, Hájová hill (78), 19.iv.2012, 3 ♂♂ 5 ♀♀, IM. Malá Vrbka, Výzkum hill (80), 17.iv.2000, 1 ♂ 1 larva, IM; 27.vii.2000, 11 ♂♂ 13 ♀♀ 2 larvae, IM & PK. Hrubá Vrbka, football ground (82), 19.vi.2000, 1 ♂, IM & PK. Radějov, Veselka hill (85), 11.vii.1998, 2 ♀♀, IM. Radějov, Kútky NR (86), 2.vi.1979, 2 ♀♀, PL; 8.ix.1998, 1 ♂ 2 ♀♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 2 ♂♂ 2 ♀♀; 18.iv.2000, 2 ♂♂ 7 ♀♀; all IM. Suchov, Suchovské Mlýny (89), 23.vi.2004, 3 larvae, IM; 16.viii.2004, 2 ♂♂ 4 ♀♀, PK; 27.vii.2005, 2 ♂♂ 3 ♀♀, IM; 1.ix.2005, 1 ♂ 3 ♀♀, IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 2 larvae, IM; 16.viii.2004, 1 ♂ 2 ♀♀ 1 larva, PK; 1.x.2004, 1 ♀ 1 larva, IM; 26.v.2005, 1 ♀, IM; 27.vii.2005, 17 ♂♂ 4 ♀♀ 2 larvae, IM; 1.ix.2005, 2 ♂♂ 12 ♀♀, IM. Javorník, Jazevčí NNR (96), 6.v.2000, 3 ♂♂, IM. Javorník, Petruchovy Mlýny (97), 23.vi.2004, 1 larva; 2.ix.2004, 3 ♂♂ 3 ♀♀ 3 larvae; 1.x.2004, 2 ♀♀ 51 larvae; 26.v.2005, 5 ♀♀; 27.vii.2005, 46 ♂♂ 28 ♀♀ 11 larvae; 1.ix.2005, 9 ♂♂ 4 ♀♀; all IM. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 1 ♂; 9.ix.1998, 1 ♀; both IM. Javorník, Machová NR (102), 14.v.1998, 1 ♂ 1 ♀, IM. Strání, Nová hora NR (105), 16.v.1998, 1 ♀, IM. Strání, Záhumenice NM (104), 24.v.2001, 1 ♂ 3 ♀♀, IM; 2.vii.2001, 4 larvae, IM & PK; 9.viii.2001, 10 ♂♂ 8 ♀♀ 3 larvae, PK; 21.ix.2001, 1 ♂ 7 ♀♀, IM. Strání, Javorina NNR (106), 4.vii.2001, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in various grassland habitats, including intensively used ones (pastures, meadows, ruderal

sites) throughout the area. **General distribution:** Palaearctic. **Host plants:** Fabaceae (e.g. *Trifolium* spp.) and Poaceae. **Red List status:** –.

Evacanthus acuminatus (Fabricius, 1794)

Published records. LANG (1945a): Korytná, Lipiny forest (38).

Additional material examined. Poteč, Ploštiny NR (12), 4.vii.1999, 1 ♂, IM. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 1 ♀, IM. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 3 ♂♂, IM. Brumov, Kloboucká street (24), 30.vi.2004, 1 ♀ 7 larvae, IM; 4.vii.–6.viii.2005, 1 ♂, PT, KR. Bylnice, Na Stráži (25), 16.vi.2006, 1 ♀, IM. Bylnice, railway station environs (27), 1.vii.1999, 1 ♀, MH & PK. Korytná, Břeží (46), 5.vii.2001, 1 ♀, IM. Březová, Kalábová NM (58), 4.vii.2001, 2 ♀♀, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂ 2 ♀♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, although quite uncommon; mostly along forest margins and in mesic, eutrophicated sites with tall herb layer. **General distribution:** Palaearctic. **Host plants:** Polyphagous on dicotyledonous herbs. **Red List status:** –.

Evacanthus interruptus (Linnaeus, 1758)

Published records. LANG (1945a): Korytná, Lipiny forest (38); Suchá Loz, Studený vrch hill (57). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 2 ♀♀, IM. Valašské Klobouky, Dobšená NM (8), 2.vii.1999, 1 ♂, IM. Valašské Klobouky, Bílé potoky NR (13), 30.vi.1999, 2 ♂♂, PK; 9.ix.1999, 1 ♂, IM; 23.viii.2002, 1 ♀, PK; 11.vii.2006, 4 ♂♂ 4 ♀♀, IM; 14.viii.2006, 2 ♀♀, PK. Brumov, Uhličky (14), 30.vi.2004, 1 ♂ 1 larva, IM. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 2 ♂♂; 30.vi.2004, 1 larva; 28.v.2005, 1 larva; 28.vii.2005, 3 ♀♀; all IM; 16.viii.2006, 1 ♂ 3 ♀♀, PK. Nedašov, Kaňoury NM (18), 12.vii.2006, 3 ♂♂ 1 ♀, IM. Brumov, Kloboucká street (24), 2.ix.2004, 1 ♂ 1 ♀, IM; 28.v.2005, 3 larvae, IM; 28.vii.2005, 3 ♀♀, PK; 4.vii.–6.viii.2005, 1 ♀, PT, KR. Bylnice, Na Stráži (25), 11.vii.2006, 1 ♂ 2 ♀♀, IM. Bylnice, railway station environs (27), 1.vii.1999, 2 ♂♂ 3 ♀♀, MH & PK. Bylnice, Lazy NR and surrounding meadows on N slopes of Plánava hill (28), 1.vii.1999, 1 larva, PK. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 1 ♂; 28.vii.2005, 1 ♂; both IM. Korytná, Břeží (46), 5.vii.2001, 1 ♂, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 1 ♀, IM. Lopeník, U Zvonice NM (63), 26.vii.–26.viii.2005, 1 ♂, PT, KR. Lopeník, Mikulčín vrch hill (65), 24.vii.2005, 1 ♀, IM. Starý Hrozenkov, Skalka quarry (67), 8.viii.2007, 1 ♂, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♂ 2 ♀♀, IM. Vyškovec, Vyškovecké Bošačky (69), 27.vi.2004, 1 ♀ 1 larva, IM; 19.viii.2004, 1 ♀, PK; 21.v.2005, 1 larva, IM; 24.vii.2005, 2 ♂♂ 2 ♀♀, PK. Vyškovec, Pod Hřibovňou NM (70), 28.vi.2004, 1 larva, IM; 24.vii.2005, 1 ♂, PK. Radějov, Žerotín NM (73), 11.vii.1998, 2 ♀♀, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 2 ♂♂ 1 ♀, IM. Malá Vrbka, Výzkum hill (80), 22.vi.2001, 4 ♂♂ 3 ♀♀, IM & PK. Hrubá Vrbka, football ground (82), 19.vi.2000, 1 ♀, IM & PK. Radějov, Kútky NR (86), 11.vii.1998, 1 ♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 2 ♂♂, IM. Suchoy, Suchovské Mlýny (89), 26.v.2005, 2 larvae; 27.vii.2005, 1 ♂ 1 ♀; all IM. Javorník, Nad Vápenkou NM (94), 9.vii.1998, 1 ♂, IM. Javorník, Jazevěč NNR (96), 19.vi.2000, 4 ♂♂ 2 ♀♀, IM. Javorník, Petruchovy Mlýny (97), 29.vi.2001, 1 ♂, IM. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 2 ♀♀, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, many ♂♂ ♀♀, IM. Javorník, Machová NR (102), 9.vii.1998, 1 ♀, IM. Strání, Javorina NNR (106), 12.vii.1998, many ♂♂ ♀♀; 4.vii.2001, 2 ♂♂ 1 ♀; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area including the highest altitudes; in neglected, mesic to wet parts of meadows and pastures, along forest margins and roads, and in forest glades. **General**

distribution: Palaearctic. **Host plants:** Polyphagous on dicotyledonous herbs. **Red List status:** –.

***Fagocyba carri* (Edwards, 1914)**

(NT)

Material examined. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 3 ♂♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Recorded from only one xerothermic site in the south-western part of the area; on solitary oaks and along sunny forest margins bordering dry grassland. **General distribution:** European. **Host plants:** *Quercus robur* and *Qu. petraea*. **Red List status:** Near-threatened.

Comments. *Fagocyba carri* is probably a quite rare and local species in the Czech Republic. A few published records are from central and north-eastern Bohemia and southern Moravia (DLABOLA 1954; LAUTERER 1957, 1995b; MALENOVSKÝ 2006).

***Fagocyba cruenta* (Herrich-Schäffer, 1838)**

= *Fagocyba douglasi* (Edwards, 1878)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Lipová, towards Haluzice (4), 21.viii.1984, 1 ♀, PL. Poteč, Ploščiny NR (12), 4.vii.1999, 1 ♂, IM. Valašské Klobouky, Bílé potoky NR (13), 9.ix.1999, 1 ♂, IM; 11.vii.2006, 1 ♂ 2 ♀♀, IM. Nedašov, Jalovcová stráň NR (17), 3.vii.1999, 2 ♂♂ 3 ♀♀; 12.vii.2006, 2 ♀♀; all IM. Rokytnice, Bukovina hill (23), 21.viii.1984, 1 ♂, PL. Bylnice, Bylničky (26), 24.vi.1982, 12 ♂♂, PL. Nedašov, Pod Cigánem NM (30), 5.x.2004, 2 ♂♂ 1 ♀, IM. Hluk, Kobyly hlava NM (35), 24.viii.2002, 1 ♂, IM. Horní Němčí, Hornoněmčanský háj forest (45), 7.vii.1985, 8 ♂♂, PL; 10.ix.2002, 3 ♂♂, IM. Korytná, Březi (46), 5.vii.2001, 1 ♂, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 2 ♂♂, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, 3 ♂♂; 30.vi.2001, 2 ♂♂; all IM; 21.ix.2001, 2 ♂♂, PK. Vápenice, Trstná brook valley (55), 6.vii.2001, 4 ♂♂, IM & PK. Březová, Kalábová NM (58), 4.vii.2001, 1 ♂, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 1 ♂, IM. Strání, Obecnice hill (60), 12.ix.2002, 1 ♂, IM. Lopeník, U Zvonice NM (63), 27.vi.2004, 1 ♂ 2 ♀♀; 25.ix.2004, 3 ♂♂ 2 ♀♀; all IM. Lopeník, Lopenické sedlo (64), 25.ix.2004, 1 ♂, IM. Lopeník, Mikulčín vrch hill (65), 25.ix.2004, 3 ♂♂ 12 ♀♀, IM. Radějov, Holý vrch hill (74), 8.ix.1998, 1 ♂, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂, IM; 22.vi.2001, 3 ♂♂, IM & PK. Radějov, Lučina (76), 14.vii.1998, 1 ♂, IM. Hrubá Vrbka, football ground (82), 20.ix.2001, 1 ♂, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 2 ♂♂, IM. Radějov, Veselka hill (85), 11.vii.1998, 1 ♂, IM. Velká nad Veličkou, village (87), 29.vi.2001, 1 ♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 3 ♂♂, IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 1 ♂, IM. Javorník, loampit W of village (95), 7.ix.1998, 1 ♀, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 7 ♂♂; 10.ix.2000, 1 ♂; all IM. Javorník, Petruchovy Mlýny (97), 23.ix.2001, 1 ♂, IM. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 4 ♂♂, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 1 ♀, IM. Javorník, Machová NR (102), 14.vi.2010, 2 ♂♂, MT, JM & PC. Javorník, Výzkum hill (103), 10.vi.1982, 1 ♂, PL.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; in forests and along their margins and on solitary trees scattered in grasslands. **General distribution:** European. **Host plants:** Polyphagous on deciduous trees (abundant particularly on *Fagus sylvatica* and *Carpinus betulus*). **Red List status:** –.

Comments. *Fagocyba cruenta* is here treated in a broad taxonomic sense according to NICKEL (2003), i.e. including *F. douglasi* (Edwards, 1878) and *F. inquinata* (Ribaut,

1936) which are considered as colour morphs. The great majority of specimens from the Bílé Karpaty PLA belong to the pale colour morph (f. *douglasi*) while the reddish colour morph (f. *typica*) was collected only on beech on the Mikulčín vrch hill near Lopeník. Females of f. *inquinata* with infuscated clavus rarely occur throughout the area, e.g. in Javorník and Strání.

***Fieberiella bohémica* Dlabola, 1965**

(VU)

(Fig. 8)

Material examined. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 2 ♂♂, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 1 ♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 1 ♀, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, 1 ♂ 2 ♀♀, IM; 21.ix.2001, 1 ♀, PK; 21.vii.2002, 1 ♂ 2 larvae, IM; 10.ix.2002, 1 ♂ 1 ♀, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 2 larvae; 8.viii.2007, 1 ♂ 2 ♀♀; 22.ix.2007, 1 ♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 8.viii.2007, 1 ♂ 1 ♀; 22.ix.2007, 1 ♀; all IM. Malá Vrbka, village (81), 9.ix.2000, 1 ♀, IM. Hrubá Vrbka, football ground (82), 20.ix.2001, 1 ♂, IM. Velká nad Veličkou, village (87), 9.ix.2000, 1 ♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 27.vii.2000, 1 ♂, IM; 18.viii.2000, 1 ♀, PK; 9.–10.ix.2000, 4 ♂♂ 1 ♀, IM. Suchov, Suchovské Mlýny (89), 16.viii.2004, 1 ♂, PK. Javorník, Jazevčí NNR (96), 10.ix.2000, 3 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common throughout the area; usually on shrubs on sunny slopes and along roads but also on fruit trees in small orchards and ornamental woody plants in villages. **General distribution:** So far only known from the Czech Republic. **Host plants:** Polyphagous on shrubs and trees; adults were collected on *Prunus spinosa*, *P. domestica*, *Pyrus communis*, *Malus domestica*, *Rosa* sp., *Ligustrum vulgare*, *Rhamnus cathartica*, *Frangula alnus*, and *Hippophae rhamnoides*; larvae were swept also from the herb layer of dry grassland, usually close to shrubs. **Red List status:** Vulnerable.

Comments. *Fieberiella bohémica* was described from central Bohemia (the environs of Prague and the Bohemian Karst near Beroun) based on different shapes of the aedeagus and pygophor appendages from another similar central European species, *F. septentrionalis* Wagner, 1963 (DLABOLA 1965a). *F. bohémica* was then treated as valid in the revision of the genus by MEYER-ARNDT & REMANE (1992a,b) who also provided diagnosis for the females but have not recorded the species from elsewhere. Here we provide the first findings from Moravia. Material of *Fieberiella* from countries neighbouring the Czech Republic still needs to be examined to reveal the distribution of *F. bohémica*, as well as to assess its morphological variability.

***Fieberiella florii* (Stål, 1864)**

Material examined. Hluk, Kobylí hlava NM (35), 24.viii.2002, 3 ♀♀ 1 larva, IM. Hluk, Babí hora NM (36), 24.viii.2002, 2 ♀♀, IM. Radějov, Žerotín NM (73), 9.viii.2002, 1 ♀, PK. Kněždub, Čertoryje NNR, Járkovec brook valley (77), 8.ix.2000, 1 ♀, IM. Kněždub, Čertoryje NNR, Radějovka brook valley (77), 9.ix.2000, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Perhaps largely restricted to xerothermic sites in the foothills of the Bílé Karpaty Mts. in the south-western part of the area but male material is needed to confirm the identification. **General distribution:** Southern, western and central Europe, North America. **Host plants:** Polyphagous on

shrubs and trees (e.g. *Rosa* spp., *Prunus spinosa*, *Ligustrum vulgare*, *Rubus idaeus*). **Red List status:** –.

Forcipata citrinella (Zetterstedt, 1828)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 1 ♂, IM. Valašské Klobouky, Javorůvky NR (7), 2.vii.1999, 2 ♂♂, IM; 11.ix.1999, 15 ♂♂, IM; 24.viii.2002, 2 ♂♂, PK. Valašské Klobouky, Dobšená NM (8), 10.ix.1999, 2 ♂♂, IM. Valašské Klobouky, Brumovka brook valley (9), 9.ix.1999, many ♂♂ ♀♀, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 5 ♂♂ 6 ♀♀, IM. Poteč, Ploštiny NR (12), 13.ix.1999, 1 ♂; 1.vi.2002, 2 ♂♂; all IM. Valašské Klobouky, Bílé potoky NR (13), 16.vi.2006, 13 ♂♂, IM; 11.vii.2006, 5 ♂♂ 6 ♀♀; 14.viii.2006, 4 ♂♂ 1 ♀, PK. Brumov, Uhlíčky (14), 30.vi.2004, 5 ♂♂ 5 ♀♀ 3 larvae; 1.ix.2004, 7 ♂♂ 1 ♀; 5.x.2004, 3 ♂♂ 2 ♀♀; 28.v.2005, 1 ♂; all IM; 28.vii.2005, 2 ♂♂ 4 ♀♀; 4.ix.2005, 3 ♂♂ 8 ♀♀ 2 larvae; all PK. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 5 ♂♂ 7 ♀♀; 10.ix.1999, 24 ♂♂ 38 ♀♀; all IM. Nedašov, Kaňoury NM (18), 17.vi.2006, 1 ♂ 1 ♀, IM. Brumov, Kloboucká street (24), 4.ix.2005, 1 ♂, PK. Bylnice, Na Stráži (25), 16.vi.2006, 2 ♂♂ 1 ♀, IM. Bylnice, Bylničky (26), 24.vi.1982, 5 ♂♂ 3 ♀♀, PL. Bylnice, railway station environs (27), 11.ix.1999, 1 ♂, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 5 ♂♂, IM. Nedašov, Pod Cigánem NM (30), 30.vi.2004, 2 ♂♂ 3 ♀♀ 1 larva; 1.ix.2004, 10 ♂♂ 27 ♀♀ 1 larva; 5.x.2004, 2 ♂♂ 4 ♀♀; 28.vii.2005, 1 ♂; 6.ix.2005, 19 ♂♂ 11 ♀♀; all IM. Sidonie, Vlárský průmysk pass (33), 12.ix.1999, 1 ♂, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 3 ♂♂ 1 ♀, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 1 ♂ 12 ♀♀, IM; 21.ix.2001, 1 ♂ 1 ♀, PK; 23.v.2002, 1 ♂, PK; 21.vii.2002, 1 ♂ 1 ♀, IM; 10.ix.2002, 6 ♂♂ 12 ♀♀, IM. Komňa, Lom Rasová NM (54), 5.vii.2001, 1 ♂ 6 ♀♀, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♂ 3 ♀♀, IM & PK. Březová, Kalábová NM (58), 4.vii.2001, 2 ♂♂ 1 ♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 4 ♂♂; 10.ix.1998, 1 ♂ 3 ♀♀; all IM. Lopeník, U Zvonice NM (63), 27.vi.2004, 3 ♂♂ 1 ♀, IM; 18.viii.2004, 2 ♀♀, PK; 25.ix.2004, 22 ♂♂ 8 ♀♀, IM; 24.vii.2005, 4 ♀, IM; 3.ix.2005, 19 ♂♂ 16 ♀♀ 3 larvae, PK. Lopeník, Mikulčín vrch hill (65), 25.ix.2004, 1 ♂ 1 ♀, IM. Vyškovec, Vyškovcecké Bošačky (69), 27.vi.2004, 5 ♂♂ 3 ♀♀, IM; 19.viii.2004, 5 ♂♂ 1 ♀, PK; 25.ix.2004, 3 ♂♂ 2 ♀♀, PK; 3.ix.2005, 12 ♂♂ 10 ♀♀, PK. Vyškovec, Pod Hřibovnou NM (70), 28.vi.2004, 2 ♂♂ 2 ♀♀, IM; 25.ix.2004, 5 ♂♂ 1 ♀, PK; 8.ix.2005, 33 ♂♂ 11 ♀♀, IM. Kněždub, Čertoryje NNR (77, 79), 19.vi.1980, 1 ♂, PL. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 2 ♂♂ 1 ♀, IM & PK. Radějov, Měsíční údolí valley (84), 8.ix.1998, 10 ♂♂ 9 ♀♀, IM. Radějov, Kútky NR (86), 11.vii.1998, 1 ♂ 6 ♀♀; 8.ix.1998, 4 ♂♂ 17 ♀♀; all IM. Suchov, Suchovské Mlýny (89), 16.viii.2004, 1 ♀, PK; 1.x.2004, 6 ♂♂ 1 ♀, IM; 27.vii.2005, 1 ♀, IM; 1.x.2005, 5 ♂♂ 8 ♀♀, IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 1 ♂, IM; 16.viii.2004, 1 ♂ 2 ♀♀, PK; 1.x.2004, 1 ♂, IM; 27.vii.2005, 2 ♂♂ 2 ♀♀, IM; 1.ix.2005, 75 ♂♂ 66 ♀♀ 2 larvae, IM. Javorník, Nad Vápenkou NM (94), 7.ix.2002, 3 ♂♂ 5 ♀♀, IM. Javorník, loampit W of village (95), 24.v.2002, 2 ♂♂, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 15 ♂♂ 8 ♀♀; 10.ix.2000, 13 ♂♂; all IM. Javorník, Petruchovy Mlýny (97), 3.v.2001, 1 ♂, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 1 ♂ 4 ♀♀, IM. Javorník, Machová NR (102), 4.vi.2010, 1 ♂, MT, JM & PC. Javorník, Výzkum hill (103), 10.vi.1982, 1 ♂, PL. Strání, Záhumenice NM (104), 2.vii.2001, 1 ♂ 1 ♀, PK; 21.ix.2001, 1 ♂, IM. Strání, Javorina NNR (106), 4.vii.2001, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area, mainly occurring in wet depressions in meadows and pastures and in spring fens. **General distribution:** Eurosiberian. **Host plants:** *Carex* spp. (e.g. *C. flacca*, *C. nigra*). **Red List status:** –.

Forcipata forcipata (Flor, 1861)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, U Rybníků (6), 10.ix.1999, 7 ♂♂ 6 ♀♀, IM. Valašské Klobouky, Javorůvky NR (7), 2.vii.1999, 1 ♂, IM; 11.ix.1999, 1 ♂, IM; 24.viii.2002, 2 ♂♂, PK. Valašské

Klobouky, Dobšená NM (8), 10.ix.1999, 9 ♂♂, IM. Valašské Klobouky, Královec hill (11), 10.ix.1999, 7 ♂♂ 4 ♀♀, IM. Poteč, Ploščiny NR (12), 13.ix.1999, 3 ♂♂, IM; 1.vi.2002, 3 ♂♂, IM; 24.viii.2002, 1 ♂ 1 ♀, PK. Valašské Klobouky, Bílé potoky NR (13), 9.ix.1999, 1 ♂, IM; 23.viii.2002, 2 ♂♂, PK; 16.vi.2006, 3 ♂♂, IM; 11.vii.2006, 1 ♂, IM. Nedašov, Jalovcová stráň NR (17), 17.vi.2006, 1 ♂ 1 ♀, IM. Bylnice, Bylničky (26), 24.vi.1982, 3 ♂♂, PL. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 7 ♂♂, IM. Nedašov, Pod Cigánem NM (30), 30.vi.2004, 1 ♂ 1 ♀; 1.ix.2004, 1 ♂ 3 ♀♀; 6.ix.2005, 7 ♂♂ 6 ♀♀; all IM. Hluk, Kobylí hlava NM (35), 24.viii.2002, 1 ♂, IM. Horní Němčí, Hornoněmčanský háj forest (45), 10.ix.2002, 1 ♂ 4 ♀♀, IM. Korytná, Břeží (46), 5.vii.2001, 2 ♂♂ 7 ♀♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♂, IM. Strání, Důbrava hill (62), 7.vii.1980, 3 ♂♂, PL. Lopeník, U Zvonice NM (63), 27.vi.2004, 1 ♂, IM; 3.ix.2005, 3 ♂♂, PK. Starý Hrozenkov, Hrozenkovské terasy (68), 8.viii.2007, 2 ♂♂; 22.ix.2007, 1 ♀; all IM. Vyškovec, Vyškovské Bošačky (69), 25.ix.2004, 1 ♂ 1 ♀, PK. Vyškovec, Pod Hribovňou NM (70), 24.vii.2005, 1 ♂, PK. Kněždub, Čertoryje NNR (77, 79), 19.vi.1980, 1 ♂, PL. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 1 ♂ 2 ♀♀, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂; 10.ix.2000, 8 ♂♂; all IM. Javorník, Machová NR (102), 14.vi.2010, 1 ♂, MT, JM & PC. Javorník, Výzkum hill (103), 10.vi.1982, 1 ♂ 1 ♀, PL. Strání, Záhumenice NM (104), 15.vi.2010, 1 ♂, MT, JM & PC.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; often syntopic with *F. citrinella* in spring fens and wet patches in grasslands, as well as in forest undergrowth. **General distribution:** Eurosiberian. **Host plants:** *Carex* spp. (e.g. *C. flacca*), *Luzula* spp. **Red List status:** –.

Graphocraerus ventralis (Fallén, 1806)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Poteč, Ploščiny NR (12), 1.vi.2002, 10 ♂♂ 2 ♀♀, IM. Valašské Klobouky, Bílé potoky NR (13), 16.vi.2006, 4 ♂♂ 2 ♀♀; 11.vii.2006, 1 ♀; all IM. Brumov, Uhličky (14), 28.v.2005, 1 larva, IM. Nedašov, Jalovcová stráň NR (17), 16.viii.2006, 1 ♀, PK. Bylnice, Na Stráži (25), 16.vi.2006, 1 ♀; 11.vii.2006, 1 ♀; both IM. Bylnice, Bylničky (26), 24.vi.1982, 2 ♀♀, PL. Blatnička, Milejovské louky meadows (39), 24.v.2009, 1 ♂; 11.vii.2009, 1 ♀; both PB. Lopeník, Lopenické sedlo (64), 27.vi.2004, 2 ♂♂, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♀, IM. Vyškovec, Vyškovské Bošačky (69), 27.vi.2004, 1 ♂, IM. Vyškovec, Pod Hribovňou NM (70), 28.vi.2004, 2 ♂♂, IM. Radějov, Žerotín NM (73), 11.vii.1998, 1 ♀, IM. Kněždub, Čertoryje NNR (77, 79), 19.vi.1980, 11 ♂♂ 2 ♀♀, PL; 22.v.2000, 2 ♂♂, PK. Malá Vrbka, Výzkum hill (80), 22.vi.2001, 1 ♀, IM & PK. Radějov, Kútky NR (86), 2.vi.1979, 1 ♂, PL; 11.vii.1998, 4 ♀♀, IM. Suchov, Suchovské Mlýny (89), 23.vi.2004, 5 ♂♂ 2 ♀♀; 27.vii.2005, 21 ♀♀; all IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 26 ♂♂ 10 ♀♀, IM; 16.viii.2004, 1 ♀, PK; 27.vii.2005, 1 ♀, IM. Velká nad Veličkou, towards Javorník (91), 10.vi.1982, 5 ♂♂, PL. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♀, IM. Javorník, Petruchovy Mlýny (97), 23.vi.2004, 1 ♂; 27.vii.2005, 1 ♀; both IM. Nová Lhota, Fojtické Mlýny (98), 7.vii.1980, 1 ♀, PL. Javorník, Machová NR (102), 9.vii.1998, 1 ♀, IM. Strání, Záhumenice NM (104), 2.vii.2001, 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in meadows and pastures throughout the area. **General distribution:** Eurosiberian. **Host plants:** Poaceae (e.g. *Anthoxanthum odoratum*, *Poa pratensis*, *Arrhenatherum elatius*, *Avenula pubescens*, *Trisetum flavescens*). **Red List status:** –.

Grypotes puncticollis (Herrich-Schäffer, 1834)

Material examined. Poteč, Ploščiny NR (12), 13.ix.1999, 2 ♀♀, IM; 17.viii.2006, 1 ♂ 2 ♀♀, PK. Horní Němčí, Drahy NR (48), 21.ix.2001, 1 ♀, PK. Starý Hrozenkov, Skalka quarry (67), 8.viii.2007, 1 ♀, IM. Kněždub, Kněždubský háj forest (75), 20.ix.2001, 1 ♂, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♀,

IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 18.viii.2000, 2 ♀♀, PK; 9.–10.ix.2000, 1 ♂, IM. Javorník, loampit W of village (95), 7.ix.1998, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, although quite local; mostly on solitary pine trees in grassland or at forest margins. **General distribution:** European. **Host plant:** *Pinus sylvestris*. **Red List status:** –.

***Handianus flavovarius* (Herrich-Schäffer, 1835) (NT) (Figs 9–10)**

Published records. LAUTERER (1983): Kněždub, Čertoryje NNR (77, 79); Velká nad Veličkou, towards Javorník (91); Nová Lhota, Fojtické Mlýny (98); Javorník, Výzkum hill (103). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79). KMENT & MALENOVSKÝ (2008): Kněždub, Čertoryje NNR, Járkovec brook valley (77). **Additional material examined.** Petrůvka, U Petrůvky NM (3), 6.viii.1999, 1 ♀, PK. Valašské Klobouky, Dobšená NM (8), 2.vii.1999, 3 ♀♀, IM. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 3 ♀♀, MH. Poteč, Ploščíny NR (12), 4.vii.1999, 2 ♂♂, IM; 1.vi.2002, 16 ♂♂ 4 ♀♀ 12 larvae, IM; 17.viii.2006, 1 ♀, PK. Valašské Klobouky, Bílé potoky NR (13), 16.vi.2006, 7 ♂♂ 2 ♀♀, IM; 11.vii.2006, 5 ♀♀, IM; 14.viii.2006, 3 ♀♀, PK. Brumov, Uhličky (14), 30.vi.2004, 4 ♂♂ 2 ♀♀; 28.v.2005, 9 larvae; all IM. Nedašov, Jalovcová stráň NR (17), 3.vii.1999, 3 ♂♂ 4 ♀♀; 10.ix.1999, 1 ♀; 30.vi.2004, 1 ♂; 28.v.2005, 1 larva; 28.vii.2005, 1 ♀; 17.vi.2006, 1 ♂; all IM. Nedašov, Kaňoury NM (18), 17.vi.2006, 4 ♂♂ 2 ♀♀ 6 larvae, IM; 12.vii.2006, 1 ♂ 1 ♀, IM; 16.viii.2006, 3 ♀♀, PK. Brumov, Kloboucká street (24), 30.vi.2004, 11 ♂♂ 9 ♀♀, IM; 28.v.2005, 93 larvae, IM; 28.vii.2005, 1 ♂ 15 ♀♀, PK; 4.vii.–6.viii.2005, 2 ♀♀, PT, KR. Bylnice, Na Stráži (25), 16.vi.2006, 3 ♂♂ 2 ♀♀; 11.vii.2006, 2 ♀♀; all IM. Nedašov, Pod Cigánem NM (30), 28.v.2005, 1 larva, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 2 ♂♂ 5 ♀♀, IM & PK; 13.viii.2001, 2 ♀♀, PK; 23.v.2002, 1 ♂ 1 ♀ 14 larvae, IM & PK; 21.vii.2002, 1 ♀, IM. Vyškovec, Vyškovecké Bošačky (69), 27.vi.2004, 4 ♂♂, IM; 21.v.2005, 11 larvae, IM; 24.vii.2005, 4 ♀♀, PK. Vyškovec, Pod Hřibovňou NM (70), 21.v.2005, 8 larvae, IM. Vyškovec, Ve Vlčí NR (71), 22.v.2005, 3 larvae, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♀, IM. Kněždub, Čertoryje NNR (77, 79), 22.v.2000, 5 ♂♂ 3 ♀♀, PK. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 1 ♀; 22.vi.2001, 4 ♀♀; all IM & PK; 18.v.2002, 1 larva, IM; 27.vi.2002, 1 ♀, IM. Hrubá Vrbka, football ground (82), 16.viii.2000, 1 ♀, PK. Radějov, Veselka hill (85), 11.vii.1998, 1 ♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 3 ♀♀, IM; 19.vi.2000, 3 ♀♀, PK. Suchov, Suchovské Mlýny (89), 23.vi.2004, 13 ♂♂ 4 ♀♀, IM; 16.viii.2004, 2 ♀♀, PK; 26.v.2005, 122 larvae, IM; 27.vii.2005, 23 ♀♀, IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 4 ♂♂ 2 ♀♀; 26.v.2005, 7 larvae; 1.ix.2005, 1 ♀; all IM. Javorník, loampit W of village (95), 24.v.2002, 3 larvae, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 2 ♀♀, IM. Javorník, Petruchovy Mlýny (97), 3.v.2001, 1 larva; 29.vi.2001, 1 ♂ 3 ♀♀; 26.v.2005, 1 larva; all IM. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 3 ♀♀, IM. Javorník, Machová NR (102), 9.vii.1998, 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in non-intensively used, dry to mesic species-rich meadows and pastures on sunny sites throughout the area. **General distribution:** From eastern parts of central Europe to Siberia (the Altai Mts.). **Host plants:** Probably on herbaceous species of Fabaceae (*Vicia*, *Trifolium*, *Lotus*) or Poaceae (*Bromus erectus*). **Red List status:** Near-threatened.

Comments. *Handianus flavovarius* reaches its westernmost limit of distribution in the Czech Republic; the westernmost localities lie in the environs of Bučovice and Letonice in south-eastern Moravia (LAUTERER 1983, MALENOVSKÝ *et al.* 2011; see also NICKEL 2003 for a comment on the type material).

***Hardya tenuis* (Germar, 1821)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Hluk, Kobyly hlava NM (35), 24.viii.2002, 6 ♂♂ 4 ♀♀, IM. Hluk, Babí hora NM (36), 24.viii.2002, 2 ♂♂, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 1 ♀, IM. Horní Němčí, Drahy NR (48), 13.viii.2001, 1 ♂ 1 ♀, PK; 21.ix.2001, 7 ♂♂ 2 ♀♀, PK; 21.vii.2002, 1 ♂, IM; 10.ix.2002, 58 ♂♂ 17 ♀♀, IM. Horní Němčí, Vinohrádky (49), 13.viii.2001, 1 ♂ 1 ♀, PK; 21.ix.2001, 1 ♂, PK; 20.vii.2002, 1 ♂ 1 ♀ 35 larvae, IM; 10.ix.2002, 6 ♂♂ 2 ♀♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 1 ♂, IM. Strání, Obecnice hill (60), 21.ix.2001, 10 ♂♂ 11 ♀♀, IM; 20.vii.2002, 1 ♂ 1 ♀, IM; 12.ix.2002, 1 ♀, IM. Starý Hrozenkov, Skalka quarry (67), 22.ix.2007, 1 ♂, IM. Kněždub, Kněždubský háj forest (75), 20.ix.2001, 1 ♂, IM. Malá Vrbka, Výzkum hill (80), 8.ix.2000, 1 ♂ 2 ♀♀, PK. Hrubá Vrbka, football ground (82), 20.ix.2001, 1 ♂ 1 ♀, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 7 ♂♂ 1 ♀, IM. Radějov, Kútky NR (86), 8.ix.1998, 2 ♂♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 1 ♀; 18.iv.2000, 1 ♀; 9.–10.ix.2000, 4 ♂♂ 4 ♀♀; all IM. Suchov, Suchovské Mlýny (89), 1.x.2004, 5 ♂♂ 4 ♀♀, IM. Suchov, Trnovský Mlýn (90), 1.x.2004, 6 ♂♂ 7 ♀♀, IM. Javorník, Nad Vápenkou NM (94), 7.ix.2002, 6 ♂♂ 3 ♀♀, IM. Javorník, Jazevčí NNR (96), 10.ix.2000, 1 ♂, IM. Javorník, Petruchovy Mlýny (97), 1.x.2004, 7 ♂♂ 7 ♀♀, IM. Strání, Záhumenice NM (104), 9.viii.2001, 1 ♀, PK; 21.ix.2001, 2 ♂♂ 1 ♀, IM. Strání, Javorina NNR (106), 4.vii.2001, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Largely restricted to the south-western part of the area where it is quite common (one individual was even found on the top of Mt Velká Javořina at ca. 950 m); in fragments of xerothermic grassland, dry meadows and pastures and along sunny forest margins. **General distribution:** European. **Host plants:** Fine-leaved *Festuca* spp., perhaps also *Poa nemoralis* and *Agrostis capillaris*. **Red List status:** –.

Henschia collina (Boheman, 1850)

= *Mocuellus collinus* (Boheman, 1850)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Korytná, Březí (46), 5.vii.2001, 2 ♀♀, IM. Horní Němčí, Vinohrádky (49), 30.vi.2001, 6 ♂♂ 5 ♀♀, IM; 13.viii.2001, 3 ♀♀, PK; 21.ix.2001, 2 ♂♂ 2 ♀♀, PK; 10.ix.2002, 1 ♂ 1 ♀, IM; 24.vii.–22.viii.2003, 1 ♀, PT, KR. Lopeník, Lopenické sedlo (64), 25.ix.2004, 2 ♀♀, IM. Radějov, Holý vrch hill (74), 8.ix.1998, 1 ♀, IM. Malá Vrbka, Výzkum hill (80), 8.ix.2000, 3 ♂♂ 3 ♀♀ 4 larvae, PK. Hrubá Vrbka, football ground (82), 19.vi.2000, 1 ♀, IM & PK; 16.viii.2000, 2 ♂♂, PK; 20.ix.2001, 1 ♂ 1 ♀, IM. Suchov, Suchovské Mlýny (89), 16.viii.2004, 3 ♂♂ 3 ♀♀, PK. Suchov, Trnovský Mlýn (90), 1.ix.2005, 1 ♂, IM. Velká nad Veličkou, towards Javorník (91), 10.vi.1982, 6 ♂♂, PL. Strání, Javorina NNR (106), 4.vii.2001, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread in the south-western and central parts of the area; locally common in abandoned fields, ruderal grassland, and in pastures. **General distribution:** Eurosiberian. **Host plants:** Poaceae (*Elytrigia repens*, *Festuca* spp., *Poa compressa*). **Red List status:** –.

Hephathus nanus (Herrich-Schäffer, 1835)

(VU)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 1 ♂, IM. Horní Němčí, Drahy NR (48), 21.vii.2002, 1 ♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Quite rare and local in sunny, dry species-rich grassland. **General distribution:** Western Palaearctic. **Host plants:** Probably on Asteraceae. **Red List status:** Vulnerable.

Comments. Interpreted after TISHECHKIN (1999). Widely distributed in xerothermic sites in warmer parts of the Czech Republic (central and north-eastern Bohemia, southern Moravia – DLABOLA 1954, MALENOVSKÝ *et al.* 2011).

***Hesium domino* (Reuter, 1880)**

Published records. LANG (1945a): Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99); Suchá Loz, Studený vrch hill (57). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Dobšená NM (8), 2.vii.1999, 2 ♂♂, IM. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 3 ♂♂, MH. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 2 ♀♀, IM. Poteč, Ploščíny NR (12), 4.vii.1999, 2 ♂♂, IM; 13.ix.1999, 11 ♀♀, IM; 1.vi.2002, 24 larvae, IM; 17.viii.2006, 1 ♂ 9 ♀♀, PK. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 3 ♂♂ 2 ♀♀, IM; 14.viii.2006, 2 ♂♂ 1 ♀, PK. Brumov, Uhličky (14), 28.vii.2005, 1 ♀, PK. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 1 ♂ 1 ♀; 1.ix.2004, 1 ♀; 6.ix.2005, 1 ♀; all IM; 16.viii.2006, 2 ♀♀. Nedašov, Kaňoury NM (18), 12.vii.2006, 1 ♂, IM; 16.viii.2006, 6 ♀♀, PK. Brumov, Kloboucká street (24), 30.vi.2004, 1 larva, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 1 ♀, IM. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 2 ♀♀; 28.vii.2005, 2 ♀♀; all IM. Korytná, Březí (46), 5.vii.2001, 1 ♂, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 1 ♂; 21.vii.2002, 1 ♀; both IM. Bánov, Skalky hill (52), 21.viii.1984, 1 ♂, PL. Lopeník, U Zvonice NM (63), 24.vii.2005, 1 ♂, IM. Lopeník, Lopenické sedlo (64), 24.vii.2005, 1 ♂, IM. Lopeník, Mikulčín vrch hill (65), 24.vii.2005, 1 ♂, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♂ 1 ♀; 8.viii.2007, 3 ♀♀; 22.ix.2007, 1 ♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♂, IM. Vyškovec, Vyškovské Bošačky (69), 19.viii.2004, 1 ♀; 24.vii.2005, 2 ♂♂ 3 ♀♀; all PK. Vyškovec, Pod Hřibovňou NM (70), 19.viii.2004, 1 ♀, PK; 25.ix.2004, 1 ♂ 1 ♀, PK; 24.vii.2005, 1 ♂ 1 ♀, PK; 8.ix.2005, 2 ♀♀, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂, IM. Radějov, Lučina (76), 14.vii.1998, 1 ♀, IM. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 1 ♂; 27.vii.2000, 1 ♀; both IM & PK. Suchov, Suchovské Mlýny (89), 1.ix.2005, 1 ♀, IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 1 larva; 26.v.2005, 20 larvae; all IM. Javorník, Nad Vápenkou NM (94), 7.ix.2002, 1 ♀, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂, IM. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 1 ♀; 9.ix.1998, 1 ♀; both IM. Strání, Záhumenice NM (104), 2.vii.2001, 1 ♂, PK; 12.ix.2002, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; on solitary trees scattered in meadows and pastures and at forest margins. **General distribution:** European. **Host plants:** Poaceae (larvae), deciduous trees (mainly *Betula* spp. – adults). **Red List status:** –.

***Iassus lanio* (Linnaeus, 1761)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 4 ♂♂ 2 ♀♀, MH. Valašské Klobouky, Bílé potoky NR (13), 30.vi.1999, 3 ♂♂ 2 ♀♀, PK; 9.ix.1999, 1 ♀, IM; 16.vi.2006, 1 larva, IM; 11.vii.2006, 1 ♂ 4 ♀♀, IM; 14.viii.2006, 1 ♀, PK. Nedašov, Jalovcová stráž NR (17), 10.ix.1999, 1 ♀; 12.vii.2006, 1 ♀; both IM. Nedašov, Kaňoury NM (18), 12.vii.2006, 3 ♀♀, IM; 16.viii.2006, 2 ♀♀, PK. Rokytnice, Bukovina hill (23), 21.viii.1984, 1 ♀, PL. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 1.vii.1999, 2 ♂♂, PK. Korytná, Březí (46), 5.vii.2001, 2 ♂♂ 1 ♀, IM. Bánov, Skalky hill (52), 21.viii.1984, 1 ♀, PL. Komňa, Nový Dvůr (53), 21.viii.1984, 1 ♀, PL. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♀, IM. Radějov, Žerotín NM (73), 11.vii.1998, 4 ♀♀, IM. Radějov, Holý vrch hill (74), 8.ix.1998, 1 ♀, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 2 ♂♂ 4 ♀♀, IM. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 2 ♀♀, IM & PK. Radějov, Veselka hill (85), 11.vii.1998, 1 ♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 19.vi.2000, 4 ♀♀, PK. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂ 1 ♀; 10.ix.2000, 1 ♀; all IM. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 2 ♀♀; 9.ix.1998, 2 ♀♀; all IM. Javorník, Machová NR (102), 9.vii.1998, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common on solitary oaks and at sunny forest margins throughout the area. **General distribution:** European. **Host plants:** *Quercus robur* and *Qu. petraea*. **Red List status:** –.

***Idiocerus herrichii* (Kirschbaum, 1868)**

Material examined. Nedašov, Kaňoury NM (18), 12.vii.2006, 1 ♂, IM. Boršice u Blatnice, Boršický potok brook valley (41), 16.viii.1984, 1 ♂ 1 ♀, PL. Radějov, Lučina (76), 14.vii.1998, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread but quite rare and local; mostly near running or standing water. **General distribution:** Western Palearctic. **Host plants:** *Salix alba* and *S. fragilis*. **Red List status:** –.

***Idiocerus lituratus* (Fallén, 1806)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Dobšená NM (8), 10.ix.1999, 1 ♀, IM. Valašské Klobouky, Bílé potoky NR (13), 14.viii.2006, 1 ♂, PK. Bojkovice (20), 1943, 1 ♀, VL. Suchov, Kazivec brook valley (47), 9.ix.1998, 1 ♂ 1 ♀, IM. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 1 ♂ 1 ♀, IM. Javorník, Machová NR (102), 9.vii.1998, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread but quite uncommon in wet places in meadows, near streams and at forest margins. **General distribution:** Western Palearctic. **Host plants:** *Salix* spp. (*S. aurita*, *S. caprea*, *S. cinerea*, and *S. repens*). **Red List status:** –.

***Idiocerus similis* Kirschbaum, 1868**

Material examined. Valašské Klobouky, Bílé potoky NR (13), 9.ix.1999, 1 ♂ 1 ♀, IM; 14.viii.2006, 1 ♀, PK. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♂, IM. Velká nad Veličkou, village (87), 9.ix.2000, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread but quite rare and local; recorded in a meadow spring fen, an abandoned quarry, and along a road on the periphery of a village. **General distribution:** European. **Host plant:** *Salix purpurea*. **Red List status:** –.

***Idiocerus stigmatalis* Lewis, 1834**

Material examined. Valašské Klobouky, Brumovská street (5), 13.ix.1999, 1 ex. (damaged), LT, IM. Poteč, Ploštiny NR (12), 13.ix.1999, 2 ♀♀, IM. Valašské Klobouky, Bílé potoky NR (13), 9.ix.1999, 1 ♀, IM. Boršice u Blatnice, Boršický potok brook valley (41), 16.viii.1984, 1 ♂ 1 ♀, PL. Horní Němčí, village (44), 10.ix.1998, 1 ♂, IM; 13.viii.2001, 1 ♂, PK. Korytná, Březí (46), 5.vii.2001, 1 ♀, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 1 ♂, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 1 ♂ 1 ♀, IM. Komňa, Nový Dvůr (53), 21.viii.1984, 2 ♀♀, PL. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♀; 22.ix.2007, 1 ♂ 3 ♀♀; all IM. Radějov, Žerotín NM (73), 11.vii.1998, 1 ♀, IM. Radějov, Lučina (76), 14.vii.1998, 3 ♂♂, IM; 17.vi.2000, 2 ♂♂ 2 ♀♀, IM; 28.vii.2000, 2 ♂♂, IM & PK; 20.ix.2001, 1 ♂ 2 ♀♀, IM. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 1 ♂ 4 ♀♀, IM & PK. Malá Vrbka, village (81), 19.vi.2000, 1 ♀, IM & PK; 28.vii.2001, 2 ♀♀, IM. Velká nad Veličkou, village (87), 19.vi.2000, 1 ♀, PK. Javorník, Jazevčí NNR (96), 10.ix.2000, 1 ♂, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common on willows in various habitats throughout the area. **General distribution:** European. **Host plants:** *Salix* spp. (often on *S. alba*). **Red List status:** –.

***Idiocerus vicinus* Melichar, 1898**

(Fig. 11)

Material examined. Bylnice, railway station environs (27), 11.ix.1999, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Documented only from the streamside vegetation of the Vlára river in the north-eastern part of the area. **General distribution:** Southern parts of Europe (Austria, France, Germany, Greece, Italy, southern Russia, Slovenia, Spain, Switzerland, the Netherlands). **Host plants:** *Salix purpurea* and *S. elaeagnos*. **Red List status:** Not evaluated.

Comments. *Idiocerus vicinus* is reported here for the Czech Republic for the first time. A revision of the material of the genus in the museum collections is needed to reveal its fine distribution and frequency in the country as the species may have been previously overlooked or misidentified.

***Idiodonus cruentatus* (Panzer, 1799)**

Published records. LANG (1945a): Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99); Suchá Loz, Studený vrch hill (57).

Distribution and frequency in the Bílé Karpaty PLA: Known only from historical records from 1944, not re-collected in the course of the recent field surveys. **General distribution:** Eurosiberian. **Host plants:** Larvae among low-growing vegetation, adults on various woody plants and dwarf shrubs (*Tilia*, *Betula*, *Fagus*, *Rubus*, *Vaccinium*, *Calluna*). **Red List status:** –.

Comments. According to LANG (1945a), *I. cruentatus* was among the dominant species in the meadows and pastures on the Lesná hill/Porážky reserve and the Studený vrch hill. Lang's collection in the Slovak national museum in Bratislava includes a series of many specimens from the Bílé Karpaty which supports his statement. However, there has been no record of *I. cruentatus* available from recent years and the species may have disappeared from the area. DLABOLA (1954) stated that *I. cruentatus* was a very common species on shrubs and in the herb layer in forest glades and on sunny slopes in montane and submontane areas of Czechoslovakia and gave several localities from the foothills of the Krkonoše and Šumava Mts., south-eastern Moravia, and the Nízké Tatry Mts. in Slovakia. In the last 15 years, *I. cruentatus* was recorded by us for the Czech Republic only in the Mrtvý luh peat bog in the Šumava Mts. in southern Bohemia and may have become a rare and locally occurring species.

***Japananus hyalinus* (Osborn, 1900)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77). LAUTERER & MALENOVSKÝ (2006): Svatý Štěpán, Nadřící (32); Horní Němčí, village (44); Radějov, Měsíční údolí valley (84).

Additional material examined. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 1 ♂ 2 ♀♀, IM. Valašské Klobouky, Brumovka brook valley (9), 9.ix.1999, 1 ♀, IM. Valašské Klobouky, Bílé potoky NR (13), 14.viii.2006, 1 ♀, PK. Nedašov, Kaňoury NM (18), 16.viii.2006, 1 ♂, PK. Horní Němčí, village (44), 13.viii.2001, 2 ♀♀, PK. Horní Němčí, Drahy NR (48), 10.ix.1998, 2 ♀♀, IM. Lopeník, U Zvonice NM (63), 25.ix.2004, 1 ♀, IM. Javorník, Jazevčí NNR (96), 10.ix.2000, 1 ♂ 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common along forest margins and roads throughout the area. **General distribution:** Probably native to eastern Palaearctic, introduced to North America and southern half of Europe.

Host plants: *Acer* spp. (mainly *A. campestre*). **Red List status:** –.

Comments. *Japananus hyalinus* is probably an allochthonous species in the fauna of the Czech Republic that is currently quite widely distributed in the country in the relatively warm regions of southern Moravia and eastern Bohemia and largely occurs in natural habitats (LAUTERER & MALENOVSKÝ 2006).

Jassargus (Arrailus) flori (Fieber, 1869)

Published records. KMENT & MALENOVSKÝ (2008): Strání, Záhumenice NM (104).

Additional material examined. Valašské Klobouky, U Rybníků (6), 10.ix.1999, 5 ♂♂, IM. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, many ♂♂ ♀♀, IM. Valašské Klobouky, Dobšená NM (8), 2.vii.1999, 1 ♂; 10.ix.1999, 1 ♂ 2 ♀♀; all IM. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 1 ♂ 1 ♀, MH; 9.ix.1999, 6 ♂♂, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 1 ♂, IM. Poteč, Ploštiny NR (12), 4.vii.1999, 3 ♂♂ 2 ♀♀, IM; 13.ix.1999, 14 ♂♂ 16 ♀♀, IM; 1.vi.2002, 212 ♂♂ 111 ♀♀ 38 larvae, IM; 24.viii.2002, 151 ♂♂ 34 ♀♀ 1 larva, PK; 17.viii.2006, 5 ♂♂ 1 ♀, PK. Valašské Klobouky, Bílé potoky NR (13), 9.ix.1999, 2 ♂♂ 4 ♀♀; 16.vi.2006, 4 ♀♀; 11.vii.2006, 12 ♂♂ 6 ♀♀; all IM. Brumov, Uhličky (14), 30.vi.2004, 1 ♂ 1 ♀; 1.ix.2004, 8 ♂♂ 6 ♀♀ 11 larvae; 5.x.2004, 1 ♂ 3 ♀♀; all IM; 4.ix.2005, 2 ♂♂ 3 ♀♀ 1 larva, PK. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 3 ♀♀; 10.ix.1999, 28 ♂♂ 27 ♀♀; 30.vi.2004, 4 ♂♂ 7 ♀♀; 1.ix.2004, 10 ♂♂ 6 ♀♀ 6 larvae; 5.x.2004, 2 ♂♂ 14 ♀♀; 28.v.2005, 7 ♂♂ 4 ♀♀ 9 larvae; 28.vii.2005, 1 ♀; 6.ix.2005, 10 ♂♂ 10 ♀♀; 17.vi.2006, 5 ♂♂ 4 ♀♀; 12.vii.2006, 1 ♀; all IM; 16.viii.2006, 2 ♀♀, PK. Bylnice, Bylničky (26), 24.vi.1982, 2 ♂♂ 4 ♀♀, PL. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 14 ♂♂ 15 ♀♀, IM. Nedašov, Pod Cigánem NM (30), 30.vi.2004, 6 ♂♂ 4 ♀♀ 4 larvae; 1.ix.2004, 65 ♂♂ 14 ♀♀ 19 larvae; 5.x.2004, 13 ♂♂ 32 ♀♀ 2 larvae; 28.vii.2005, 21 ♂♂ 9 ♀♀ 1 larva; 6.ix.2005, 159 ♂♂ 165 ♀♀ 22 larvae; all IM. Sidonie, Vlárka brook valley above village (31), 8.ix.1981, 1 ♂, LP. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 1 ♂ 1 ♀, IM. Korytná, Březí (46), 5.vii.2001, 6 ♂♂, IM. Komňa, Lom Rasová NM (54), 5.vii.2001, 3 ♂♂ 4 ♀♀, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♀, IM & PK. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♂ 1 ♀, IM. Strání, Důbrava hill (62), 7.vii.1980, 6 ♂♂ 3 ♀♀, PL. Lopeník, U Zvonice NM (63), 27.vi.2004, 1 ♀, IM; 18.viii.2004, 1 ♂ 2 ♀♀, PK; 25.ix.2004, 16 ♂♂ 12 ♀♀, IM; 24.vii.2005, 1 ♂, IM; 26.vii.–26.viii.2005, 1 ♂, PT, KR; 3.ix.2005, 24 ♂♂ 14 ♀♀ 8 larvae, PK. Lopeník, Lopenické sedlo (64), 27.vi.2004, 3 ♂♂ 1 larva; 24.vii.2005, 1 ♂; both IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 2 ♂♂ 1 ♀; 8.viii.2007, 1 ♂ 1 ♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 2 ♀♀; 8.viii.2007, 2 ♂♂ 3 ♀♀; all IM. Výškovec, Výškovecké Bošačky (69), 27.vi.2004, 37 ♂♂ 44 ♀♀ 5 larvae, IM; 19.viii.2004, 20 ♂♂ 11 ♀♀ 11 larvae, PK; 25.ix.2004, 77 ♂♂ 108 ♀♀, PK; 21.v.2005, 4 larvae, IM; 3.ix.2005, 154 ♂♂ 154 ♀♀ 37 larvae, PK. Výškovec, Pod Hřibovnou NM (70), 28.vi.2004, 3 ♂♂ 2 ♀♀, IM; 25.ix.2004, 16 ♂♂ 7 ♀♀, PK; 24.vii.2005, 3 ♂♂ 6 ♀♀, PK; 8.ix.2005, 29 ♂♂ 21 ♀♀, IM. Radějov, Veselka hill (85), 11.vii.1998, 1 ♂, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂, IM. Strání, Záhumenice NM (104), 2.vii.2001, 52 ♂♂ 54 ♀♀, IM; 9.viii.2001, 28 ♂♂ 18 ♀♀, PK; 21.ix.2001, 233 ♂♂ 181 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area and common in meadows and pastures in its north-eastern and central parts while it is rare and local and perhaps restricted to open forest sites in the south-west. **General**

distribution: European. **Host plants:** Narrow-leaved Poaceae (*Agrostis capillaris*, *Avenella flexuosa*, *Festuca heterophylla*, *Poa angustifolia*). **Red List status:** –.

***Jassargus (Jassargus) pseudocellaris* (Flor, 1861)**

Published records. KMENT & MALENOVSKÝ (2008): Lopeník, Lopenické sedlo (64).

Additional material examined. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 9 ♂♂ 5 ♀♀, IM. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, many ♂♂ ♀♀, IM. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 1 ♂ 2 ♀♀, MH; 9.ix.1999, 10 ♂♂ 15 ♀♀, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 2 ♂♂ 1 ♀, IM. Poteč, Ploštiny NR (12), 1.vi.2002, 7 ♂♂, IM; 24.viii.2002, 1 ♂, PK. Valašské Klobouky, Bílé potoky NR (13), 9.ix.1999, 3 ♂♂ 1 ♀; 16.vi.2006, 1 ♂ 2 ♀♀; 11.vii.2006, 6 ♀♀, all IM. Brumov, Uhlíčky (14), 4.ix.2005, 2 ♂♂, PK. Nedašov, Jalovcová stráž NR (17), 6.ix.2005, 4 ♂♂ 2 ♀♀, IM. Brumov, Kloboucká street (24), 4.ix.2005, 1 ♂ 1 ♀, PK. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 1 ♂ 4 ♀♀, IM. Nedašov, Pod Cigánem NM (30), 10.ix.1999, 1 ♂ 1 ♀; 30.vi.2004, 9 ♂♂ 8 ♀♀ 8 larvae; 1.ix.2004, 135 ♂♂ 121 ♀♀ 68 larvae; 5.x.2004, 10 ♂♂ 73 ♀♀ 2 larvae; 28.v.2005, 1 ♂ 3 larvae; 28.vii.2005, 5 ♂♂ 13 ♀♀; 6.ix.2005, 98 ♂♂ 68 ♀♀ 32 larvae; all IM. Lopeník, U Zvonice NM (63), 27.vi.2004, 4 ♂♂ 7 ♀♀ 1 larva, IM; 18.viii.2004, 1 ♀, PK; 25.ix.2004, 10 ♂♂ 21 ♀♀ 2 larvae, IM; 26.vi.–26.vii.2005, 1 ♂ 1 ♀, PT, KR; 3.ix.2005, 1 ♂ 1 ♀, PK. Lopeník, Lopenické sedlo (64), 27.vi.2004, 193 ♂♂ 177 ♀♀ 74 larvae, IM; 25.ix.2004, 241 ♂♂ 181 ♀♀ 19 larvae, IM; 24.vii.2005, 50 ♂♂ 36 ♀♀ 1 larva, IM; 3.ix.2005, 372 ♂♂ 438 ♀♀ 224 larvae, PK. Vyškovec, Pod Hřibovňou NM (70), 28.vi.2004, 6 ♂♂ 4 ♀♀, IM; 19.viii.2004, 3 ♀♀, PK; 25.ix.2004, 8 ♂♂ 18 ♀♀, PK; 8.ix.2005, 31 ♂♂ 21 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Common in meadows and pastures at relatively wet and cool places of the north-eastern and central parts of the area while it is absent in the south-west. **General distribution:** Western, central and northern Europe, Siberia. **Host plants:** Poaceae (*Agrostis capillaris*, *Festuca rubra*, *Nardus stricta*, *Holcus* spp.) **Red List status:** –.

***Jassargus (Obtujassargus) obtusivalvis* (Kirschbaum, 1868)**

Published records. LANG (1945a): Korytná, Lipiny forest (38); Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79). KMENT & MALENOVSKÝ (2008): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Valašské Klobouky, Dobšená NM (8), 22.v.1999, 1 ♂; 2.vii.1999, 1 ♂; 10.ix.1999, 2 ♂♂ 1 ♀; all IM. Poteč, Ploštiny NR (12), 13.ix.1999, 1 ♂, IM; 1.vi.2002, 7 ♂♂ 7 ♀♀, IM; 24.viii.2002, 3 ♂♂ 2 ♀♀, PK. Valašské Klobouky, Bílé potoky NR (13), 9.ix.1999, 1 ♂ 1 ♀, IM; 16.vi.2006, 22 ♂♂ 14 ♀♀, IM; 11.vii.2006, 4 ♂♂ 2 ♀♀, IM; 14.viii.2006, 3 ♂♂ 1 ♀, PK. Brumov, Uhlíčky (14), 30.vi.2004, 1 ♂; 1.ix.2004, 1 ♂; both IM. Nedašov, Jalovcová stráž NR (17), 20.v.1999, 1 ♀; 3.vii.1999, 1 ♂ 1 ♀; 10.ix.1999, 1 ♂; 30.vi.2004, 1 ♂ 1 ♀; 1.ix.2004, 2 ♂♂; 28.v.2005, 7 ♂♂ 1 ♀ 7 larvae; 6.ix.2005, 22 ♂♂ 21 ♀♀ 2 larvae; 17.vi.2006, 5 ♂♂ 6 ♀♀; 12.vii.2006, 3 ♂♂ 1 ♀; all IM. Nedašov, Kaňoury NM (18), 17.vi.2006, 14 ♂♂ 7 ♀♀, IM; 12.vii.2006, 2 ♂♂ 2 ♀♀, IM; 16.viii.2006, 5 ♂♂ 2 ♀♀, PK. Bylnice, Na Stráži (25), 16.vi.2006, 10 ♂♂ 4 ♀♀, IM; 11.vii.2006, 10 ♂♂ 4 ♀♀, IM; 18.viii.2006, 4 ♂♂, PK. Bylnice, railway station environs (27), 21.v.1999, 1 ♂, IM; 1.vii.1999, 1 ♀, MH & PK; 11.ix.1999, 2 ♂♂ 1 ♀, IM. Sidonie, Vlárský průmysk pass (33), 12.ix.1999, 1 ♂, IM. Hluk, Kobylí hlava NM (35), 24.viii.2002, 9 ♂♂ 9 ♀♀, IM. Hluk, Babí hora NM (36), 24.viii.2002, 6 ♂♂ 5 ♀♀, IM. Horní Němčí, Hornoněmčanský háj forest (45), 7.vii.1985, 1 ♂, PL. Korytná, Březí (46), 5.vii.2001, 5 ♂♂, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, many ♂♂ ♀♀, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, several ♂♂ ♀♀, IM; 30.vi.2001, 4 ♂♂ 3 ♀♀, IM & PK; 13.viii.2001, 2 larvae, PK; 21.ix.2001, 2 ♂♂ 2 ♀♀, PK; 23.v.2002, 2 ♂♂, PK; 21.vii.2002, 3 ♀♀ 1 larva, IM; 10.ix.2002, 1 ♂ 1 larva, IM; 24.vii.–22.viii.2003, 2 ♂♂, PT, KR. Horní Němčí, Vinohrádky (49), 20.vii.2002, 1 larva, IM. Bánov, Skalky hill (52), 2 ♂♂, PL. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, many ♂♂ ♀♀, IM. Strání, Obecnice hill (60), 24.v.2001, 3 ♂♂ 3 ♀♀, IM; 2.vii.2001, 1 ♀, IM &

PK; 9.viii.2001, 5 ♂♂ 5 ♀♀ 3 larvae, PK; 21.ix.2001, 5 ♂♂, IM; 20.vii.2002, 5 ♂♂ 6 ♀♀ 2 larvae, IM; 12.ix.2002, 1 ♂ 1 ♀ 4 larvae, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 3 ♂♂ 2 ♀♀; 8.viii.2007, 8 ♂♂ 4 ♀♀; 22.ix.2007, 10 ♂♂ 4 ♀♀; all IM. Vyškovec, Vyškovecké Bošachky (69), 27.vi.2004, 18 ♂♂ 23 ♀♀, IM; 19.viii.2004, 6 ♂♂ 2 ♀♀, PK; 25.ix.2004, 9 ♂♂ 11 ♀♀, PK; 21.v.2005, 2 larvae, IM; 3.ix.2005, 43 ♂♂ 44 ♀♀ 11 larvae, PK. Radějov, Žerotín NM (73), 9.viii.2002, 2 ♀♀, PK. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 2 ♂♂ 1 ♀; 28.vii.2000, 3 ♀♀; 20.ix.2001, 1 ♀; all IM. Kněždub, Čertoryje NNR (77, 79), 19.vi.1980, 3 ♂♂, PL; 22.v.2000, 1 ♂, PK. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 13 ♂♂ 16 ♀♀ 15 larvae, IM & PK. Hrubá Vrbka, football ground (82), 16.viii.2000, 2 ♂♂, PK. Radějov, Měsíční údolí valley (84), 8.ix.1998, 5 ♀♀, IM; 20.viii.2002, 3 ♂♂ 1 ♀, PK. Radějov, Veselka hill (85), 11.vii.1998, 1 ♂, IM. Radějov, Kútky NR (86), 2.vi.1979, 2 ♂♂ 1 ♀, PL; 11.vii.1998, 3 ♂♂ 3 ♀♀, IM; 8.ix.1998, 5 ♂♂ 4 ♀♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 14.v.1998, several ♂♂ ♀♀; 13.vii.1998, 2 ♂♂; 9.–10.ix.2000, many ♂♂ 3 ♀♀; all IM. Suchov, Suchovské Mlýny (89), 23.vi.2004, 14 ♂♂ 7 ♀♀, IM; 16.viii.2004, 40 ♂♂ 38 ♀♀ 7 larvae, PK; 1.x.2004, 39 ♂♂ 34 ♀♀ 4 larvae, IM; 26.v.2005, 20 ♂♂ 5 ♀♀ 11 larvae, IM; 27.vii.2005, 17 ♂♂ 7 ♀♀, IM; 1.ix.2005, 17 ♂♂ 14 ♀♀ 7 larvae, IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 1 ♂, IM. Velká nad Veličkou, towards Javorník (91), 10.vi.1982, 1 ♂ 1 ♀, PL. Javorník, SW slopes of Háj hill (93), 10.vi.1982, 1 ♂ 1 ♀, PL. Javorník, Nad Vápenkou NM (94), 9.vii.1998, 2 ♀♀; 7.ix.2002, 4 ♂♂, IM. Javorník, loampit W of village (95), 7.ix.1998, many ♂♂ ♀♀; 24.v.2002, 6 ♂♂ 1 ♀; all IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 7 ♂♂ 5 ♀♀; 10.ix.2000, 7 ♂♂ 4 ♀♀, IM. Javorník, Petruchovy Mlýny (97), 23.vi.2004, 7 ♂♂ 12 ♀♀ 2 larvae; 2.ix.2004, 58 ♂♂ 44 ♀♀ 5 larvae; 1.x.2004, 7 ♂♂ 10 ♀♀; 26.v.2005, 6 ♂♂ 4 ♀♀ 25 larvae; 27.vii.2005, 11 ♂♂ 11 ♀♀ 17 larvae; 1.ix.2005, 16 ♂♂ 13 ♀♀ 1 larva; all IM. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 1 ♂ 1 ♀; 9.ix.1998, 14 ♂♂ 8 ♀♀; all IM. Javorník, Výzkum hill (103), 10.vi.1982, 1 ♂ 1 ♀, PL. Strání, Záhumenice NM (104), 2.vii.2001, 2 ♂♂ 5 ♀♀, PK; 9.viii.2001, 2 ♂♂, PK; 21.ix.2001, 12 ♂♂ 12 ♀♀, IM. Strání, Javorina NNR (106), 4.vii.2001, 2 ♂♂ 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in various open grassland habitats (meadows, pastures, xerothermic grassland, ruderal sites) on sunny, relatively warm and dry places throughout the area. **General distribution:** European. **Host plants:** Poaceae (e.g. *Bromus erectus*, *Brachypodium pinnatum*, *Festuca rupicola*). **Red List status:** –.

Jassargus (Sayetus) sursumflexus (Then, 1902)

(VU)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Distribution and frequency in the Bílé Karpaty PLA: Local and rare or perhaps under-recorded: documented from intermittently wet meadows in only one site in the south-western part of the area. **General distribution:** European. **Host plants:** *Molinia caerulea* agg. **Red List status:** Vulnerable.

Comments. In the Czech Republic, *J. sursumflexus* may be a widespread but locally occurring species more or less following the distribution of its host plant. Except for the record from the Bílé Karpaty, most other available data are from southern and central Bohemia (Třeboňsko PLA, Šumava Mts., the Elbe and Jizera river basins – DLABOLA 1954 and unpublished material from the Moravian Museum, Brno).

Kybos butleri (Edwards, 1908)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Radějovka brook valley (79). MÜHLETHALER *et al.* (2009): Bílé Karpaty.

Additional material examined. Horní Němčí, village (44), 13.viii.2001, 1 ♂ 1 ♀, PK. Suchov, Kazivec brook valley (47), 9.ix.1998, 1 ♂ 3 ♀♀, IM. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 24 ♂♂ 1 ♀, MT, JM & PC. Strání, Záhumenice NM (104), 15.vi.2010, 1 ♂, MT, JM & PC.

Distribution and frequency in the Bílé Karpaty PLA: Collected in the south-western part of the area, quite local; mainly in brook floodplains. **General distribution:** European. **Host plants:** *Salix* spp. (*S. aurita*, *S. cinerea*, *S. repens*, *S. triandra*, *S. caprea*, *S. myrsinifolia*). **Red List status:** –.

Kybos lindbergi (Linnavuori, 1951)

Published records. MÜHLETHALER *et al.* (2009): Bílé Karpaty.

Material examined. Poteč, Ploščiny NR (12), 4.vii.1999, 1 ♂, IM; 13.ix.1999, 8 ♀♀, IM; 1.vi.2002, 1 ♂, IM; 17.viii.2006, 1 ♀, PK. Komňa, Lom Rasová NM (54), 5.vii.2001, 1 ♂, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 2 ♂♂, IM & PK. Velká nad Veličkou, village (87), 19.vi.2000, 1 ♂, PK. Javorník, village (92), 8.viii.2001, 1 ♂, PK.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area but quite rarely collected; in forest glades and abandoned quarries as well as on solitary birches in meadows and villages. **General distribution:** Central, northern and eastern Europe, Kazakhstan. **Host plants:** *Betula* spp. (*B. pendula*, *B. pubescens*, and *B. nana*). **Red List status:** –.

Kybos mucronatus (Ribaut, 1933)

Material examined. Valašské Klobouky, Brumovská street (5), 13.ix.1999, 2 ♂♂, LT, IM. Radějov, Lučina (76), 28.vii.2000, 1 ♂, IM & PK. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread but only rarely collected; near brooks and ponds. **General distribution:** European except the north and the Mediterranean area. **Host plants:** *Alnus glutinosa* (and/or perhaps also *A. incana* and *Salix* spp.). **Red List status:** –.

Kybos populi (Edwards, 1908)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77). MÜHLETHALER *et al.* (2009): Bílé Karpaty.

Additional material examined. Lopeník, U Zvonice NM (63), 25.ix.2004, 1 ♀, IM. Lopeník, Lopenické sedlo (64), 25.ix.2004, 1 ♂, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 22.ix.2007, 4 ♀♀, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Perhaps widespread but relatively rarely recorded in the central and south-western parts of the area; mainly on *Populus tremula* at edges of small woods scattered in pastures and meadows. **General distribution:** Eurosiberian, introduced to North America. **Host plants:** *Populus* spp. (*P. alba*, *P. nigra*, *P. suaveolens*, *P. tremula*). **Red List status:** –.

Kybos rufescens Melichar, 1896

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77). MÜHLETHALER *et al.* (2009): Bílé Karpaty.

Additional material examined. Valašské Klobouky, Bílé potoky NR (13), 30.vi.1999, 2 ♀♀, PK; 9.ix.1999, 2 ♂♂ 2 ♀♀, IM; 16.vi.2006, 1 ♂, IM; 11.vii.2006, 3 ♂♂ 3 ♀♀, IM; 14.viii.2006, 1 ♂ 2 ♀♀, PK. Bylnice, railway station environs (27), 11.ix.1999, 2 ♂♂ 13 ♀♀, IM. Nedašov, Na Salaši (29), 3.vii.1999, 1 ♂ 5 ♀♀, IM. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 2 ♀♀, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 4 ♂♂ 15 ♀♀, IM. Komňa, Lom Rasová NM (54), 5.vii.2001, 1 ♂ 10 ♀♀, IM. Korytná, Lubná pond environs (56), 5.vii.2001, 1 ♂ 1 ♀, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 11 ♂♂ 33 ♀♀; 8.viii.2007, 2 ♂♂ 3 ♀♀; 22.ix.2007, 2 ♂♂ 11 ♀♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♂ 2 ♀♀; 8.viii.2007, 2 ♂♂ 1 ♀; all IM. Radějov, Lučina (76), 22.vi.2001, 3 ♀♀, IM & PK. Javorník, loampit W of village (95), 24.v.2002, 12 ♂♂ 1 ♀, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 3 ♂♂ 5 ♀♀, IM. Strání, Záhumenice NM (104), 8.vi.2001, 3 ♂♂ 2 ♀♀, PL.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; near running or standing water, around springs and in abandoned quarries and loampits. **General distribution:** Eurosiberian. **Host plant:** *Salix purpurea*. **Red List status:** –.

Kybos smaragdula (Fallén, 1806)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Radějovka brook valley (79). MÜHLETHALER *et al.* (2009): Bílé Karpaty.

Additional material examined. Korytná, Březí (46), 5.vii.2001, 1 ♂ 2 ♀♀, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 3 ♂♂, IM & PK. Korytná, Lubná pond environs (56), 5.vii.2001, 1 ♂, IM. Radějov, Lučina (76), 22.vi.2001, 1 ♂, IM & PK. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Documented from the south-western and central parts of the area; near brooks and ponds. **General distribution:** Palaearctic, introduced to North America. **Host plants:** *Alnus* spp. (*A. glutinosa*, *A. incana*, *A. alnobetula*). **Red List status:** –.

Kybos strigilifer (Ossiannilsson, 1941)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77). MÜHLETHALER *et al.* (2009): Bílé Karpaty.

Additional material examined. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 1 ♂; 13.ix.1999, 1 ♂, LT; all IM. Horní Němčí, village (44), 13.viii.2001, 7 ♂♂ 11 ♀♀, PK. Korytná, Lubná pond environs (56), 5.vii.2001, 2 ♂♂, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 2 ♂♂ 4 ♀♀; 8.viii.2007, 1 ♂; 22.ix.2007, 5 ♀♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♂ 2 ♀♀; 22.ix.2007, 3 ♀♀; all IM. Radějov, Lučina (76), 17.vi.2000, 1 ♂ 1 ♀, IM. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 1 ♂ 5 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area and quite common e.g. near standing or running water, at forest margins, and on waysides. **General distribution:** Europe except the Mediterranean area. **Host plants:** *Salix* spp. (*S. caprea*, *S. cinerea*, *S. myrsinifolia*). **Red List status:** –.

***Kybos strobli* (Wagner, 1949)**

Published records. MÜHLETHALER *et al.* (2009): Horní Němčí.

Material examined. Bylnice, railway station environs (27), 11.ix.1999, 1 ♂, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, 3 ♂♂ several ♀♀, IM; 30.vi.2001, 9 ♂♂ 19 ♀♀, IM; 21.ix.2001, 3 ♂♂ 18 ♀♀, PK. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 12 ♂♂, MT, JM & PC. Strání, Záhumenice NM (104), 15.vi.2010, 3 ♂♂, MT, JM & PC.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread and locally common along streams or on slopes furrowed by landslides (Drahy near Horní Němčí). **General distribution:** Central and eastern Europe. **Host plant:** *Alnus incana*. **Red List status:** –.

Comments. *Kybos strobli* is a poorly documented species in the Czech Republic, so far known only from south-eastern Moravia (MÜHLETHALER *et al.* 2009).

***Kybos virgator* (Ribaut, 1933)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Radějovka brook valley (79). MÜHLETHALER *et al.* (2009): Bílé Karpaty.

Additional material examined. Horní Němčí, village (44), 10.ix.1998, 3 ♂♂, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 3 ♂♂, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 1 ♂, IM. Korytná, Lubná pond environs (56), 5.vii.2001, 1 ♂, IM. Starý Hrozenkov, Skalka quarry (67), 22.ix.2007, 1 ♂, IM. Radějov, Lučina (76), 22.vi.2001, 9 ♂♂, IM & PK; 17.vi.2000, 1 ♂, IM. Malá Vrbka, village (81), 28.vii.2001, 5 ♀♀, IM. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 14 ♂♂, MT, JM & PC. Velká nad Veličkou, village (87), 19.vi.2000, 2 ♂♂, PK; 9.ix.2000, 8 ♂♂, IM. Javorník, village (92), 8.viii.2001, 1 ♂, PK. Javorník, loampit W of village (95), 24.v.2002, 9 ♂♂, IM. Strání, Záhumenice NM (104), 15.vi.2010, 3 ♂♂, MT, JM & PC.

Distribution and frequency in the Bílé Karpaty PLA: Perhaps largely restricted to the south-western part of the area, quite common there near standing or running water as well as on ornamental weeping willows in villages. **General distribution:** Palaearctic. **Host plants:** *Salix* spp. (mainly *S. alba* and *S. fragilis*). **Red List status:** –.

***Lamprotettix nitidulus* (Fabricius, 1787)**

Material examined. Valašské Klobouky, Bílé potoky NR (13), 14.viii.2006, 1 ♀, PK. Kněždub, Kněždubský háj forest (75), 28.vii.2000, 1 ♀, IM. Javorník, Machová NR (102), 9.vii.1998, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Perhaps widespread but under-recorded; collected at forest margins at three sites in the north-east and south-west of the area. **General distribution:** European. **Host plants:** Perhaps polyphagous on herbs in forest undergrowth (Poaceae, *Lamium*, *Urtica* – larvae) and deciduous trees (*Quercus*, *Alnus*, *Betula*, *Ulmus*, *Tilia* – adults). **Red List status:** –.

***Ledra aurita* (Linnaeus, 1758)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Javorník, Machová NR (102), 9.vii.1998, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Collected on solitary oaks in meadows in two localities in the south-western part of the area but perhaps under-recorded as it lives mainly on the bark of trees and is rarely caught with sweep-netting. **General distribution:** European. **Host plants:** Polyphagous on deciduous trees (often on *Quercus* spp.). **Red List status:** –.

Limotettix striola (Fallén, 1806)

Published records. LANG (1945a): Březová, Kalábová NM (58).

Additional material examined. Poteč, Ploštiny NR (12), 17.viii.2006, 1 ♀, PK. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 4 ♂♂ 3 ♀♀; 10.ix.1999, 19 ♂♂ 14 ♀♀; all IM; 25.vi.2002, 7 ♂♂ 11 ♀♀, PK. Komňa, Lom Rasová NM (54), 5.vii.2001, 4 ♂♂ 5 ♀♀, IM. Korytná, Lubná pond environs (56), 5.vii.2001, 1 ♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♂; 10.ix.1998, 1 ♂ 1 ♀; all IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 11 ♂♂ 14 ♀♀; 8.viii.2007, 11 ♂♂ 4 ♀♀; 22.ix.2007, 10 ♂♂ 6 ♀♀; all IM. Radějov, Kútky NR (86), 8.ix.1998, 1 ♂ 3 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and locally common in spring fens, on shores of ponds and in wet places in abandoned quarries. **General distribution:** Palearctic. **Host plants:** Cyperaceae (mainly *Eleocharis* spp.). **Red List status:** –.

Linnavuoriana intercedens (Linnavuori, 1949) (NT)

Material examined. Bylnice, railway station environs (27), 11.ix.1999, 1 ♂, IM. Horní Němčí, Drahy NR (48), 21.ix.2001, 3 ♂♂ 3 ♀♀, PK. Radějov, Lučina (76), 14.vii.1998, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Perhaps widespread but quite rare and local; collected from streamside woody vegetation as well as from alder shrubs on a slope furrowed by landslides (Drahy near Horní Němčí). **General distribution:** Central and northern Europe. **Host plant:** *Alnus incana*. **Red List status:** Near-threatened.

Comments. In the Czech Republic, *L. intercedens* was previously known from the Šumava Mts. in southern Bohemia and lowlands in central Moravia (LAUTERER & NOVOTNÝ 1991).

Linnavuoriana sexmaculata (Hardy, 1850)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Dobšená NM (8), 10.ix.1999, 2 ♂♂, IM. Bylnice, railway station environs (27), 11.ix.1999, 2 ♂♂, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 1 ♂ 1 ♀, IM. Suchov, Kazivec brook valley (47), 15.v.1998, 1 ♂; 9.ix.1998, 1 ♂, both IM. Horní Němčí, Drahy NR (48), 15.v.1998, 1 ♀, IM. Lopeník, U Zvonice NM (63), 18.viii.2004, 1 ♂, PK; 25.ix.2004, 1 ♂ 2 ♀♀, IM. Lopeník, Lopenické sedlo (64), 25.ix.2004, 2 ♂♂ 5 ♀♀, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 3 ♂♂ 2 ♀♀; 22.ix.2007, 3 ♂♂ 2 ♀♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 22.ix.2007, 1 ♂ 1 ♀, IM. Radějov, Lučina (76), 14.vii.1998, 1 ♂, IM; 17.vi.2000, 1 ♂, IM; 28.vii.2000, 1 ♀, IM & PK. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 3 ♂♂ 1 ♀, MT, JM & PC. Velká nad Veličkou, village (87), 9.ix.2000, 5 ♂♂ 2 ♀♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 4 ♂♂ 3 ♀♀, IM. Javorník, Nad Vápenkou NM (94), 7.ix.2002, 3 ♂♂, IM.

Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂; 10.ix.2000, 1 ♂ 2 ♀♀; all IM. Strání, Záhumenice NM (104), 15.vi.2010, 3 ♂♂ 1 ♀, MT, JM & PC.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area, e.g. near standing or running water, in wet places in grasslands, at the bottom of abandoned quarries, etc. **General distribution:** Eurosiberian. **Host plants:** *Salix* spp. (*S. viminalis*, *S. cinerea*, *S. caprea*, *S. aurita*, *S. alba*, *S. elaeagnos*). **Red List status:** –.

Macropsis cerea (Germar, 1837)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Radějovka brook valley (79).

Additional material examined. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 1 ♀, IM; 14.viii.2006, 1 ♀, PK. Javorník, Machová NR (102), 9.vii.1998, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Quite rare: recorded from wet places in three sites in the south-western and north-eastern parts of the area. **General distribution:** Palaearctic. **Host plants:** *Salix* spp. (*S. viminalis*, *S. triandra*, *S. fragilis*, *S. cinerea*, *S. caprea*, *S. aurita*, *S. purpurea*, *S. myrsinifolia*). **Red List status:** –.

Macropsis elaeagni Emeljanov, 1964

Material examined. Nedašov, village (15), 17.viii.2006, 1 ♀, PK.

Distribution and frequency in the Bílé Karpaty PLA: Known from ornamental vegetation in a village in the north-eastern part of the area. **General distribution:** Central Asia, Kazakhstan, southern Russia, introduced to southern parts of Europe. **Host plant:** *Elaeagnos angustifolia*. **Red List status:** –.

Comments. *Macropsis elaeagni* is an allochthonous species in the Czech Republic occurring mainly in parks and gardens in cities and villages; it has been recorded from southern Moravia (LAUTERER 1984, MALENOVSKÝ & LAUTERER 2006a).

Macropsis fuscinervis (Boheman, 1845)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Valašské Klobouky, Bílé potoky NR (13), 16.vi.2006, 2 ♂♂; 11.vii.2006, 2 ♀♀; all IM. Nedašov, Jalovcová stráž NR (17), 12.vii.2006, 1 ♀, IM. Vyškovec, Vyškovecké Bošačky (69), 19.viii.2004, 1 ♀, PK. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂ 4 ♀♀, IM. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 3 ♂♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area at margins of small woods scattered in meadows and pastures. **General distribution:** Palaearctic. **Host plant:** *Populus tremula*. **Red List status:** –.

Macropsis fuscula (Zetterstedt, 1828)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Poteč, Ploščiny NR (12), 17.viii.2006, 2 ♀♀, PK. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 1 ♂ 2 ♀♀, IM; 14.viii.2006, 1 ♀, PK. Rokytnice, Bukovina hill (23), 21.viii.1984, 1 ♀, PL. Lopeník, Mikulčín vrch hill (65), 24.vii.2005, 3 ♂♂, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 3 ♂♂ 2 ♀♀, IM. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 28.vii.2001, 3 ♂♂ 4 ♀♀, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common throughout the area at forest margins and in forest glades. **General distribution:** Palaearctic. **Host plants:** *Rubus* spp. (*R. idaeus*, *R. caesius*, *R. fruticosus* agg.). **Red List status:** –.

***Macropsis glandacea* (Fieber, 1868)**

(EN)

Material examined. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Known from a forest road margin at only one site in the south-western part of the area. **General distribution:** European. **Host plants:** *Ulmus* spp. (mainly *U. minor* and hybrids, *U. laevis*). **Red List status:** Endangered.

Comments. *Macropsis glandacea* is a sporadically recorded species in the Czech Republic, known e.g. from the environs of Prague in central Bohemia and the Pavlovské vrchy Hills in southern Moravia (DLABOLA 1954, 1956).

***Macropsis graminea* (Fabricius, 1798)**

Material examined. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 2 ♂♂ 2 ♀♀, IM. Starý Hrozenkov, Skalka quarry (67), 8.viii.2007, 1 ♂, IM. Hrubá Vrbka, football ground (82), 19.vi.2000, 2 ♀♀, IM & PK; 28.vii.2001, 3 ♀♀, IM. Velká nad Veličkou, village (87), 19.vi.2000, 1 ♀, PK.

Distribution and frequency in the Bílé Karpaty PLA: Known from several sites in the south-western and central parts of the area, mostly at relatively low altitudes, e.g. on streamside woody vegetation, windbreaks, along roads and in an abandoned quarry. **General distribution:** Western Palaearctic, introduced to North America. **Host plants:** *Populus nigra* and perhaps also its hybrids. **Red List status:** –.

***Macropsis gravesteini* Wagner, 1953**

(Fig. 12)

Material examined. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 1 ♂ 14 ♀♀, IM & PK. Velká nad Veličkou, village (87), 19.vi.2000, 5 ♀♀, PK.

Distribution and frequency in the Bílé Karpaty PLA: Collected from willows bordering ways at two, relatively warm sites at the south-western foothills of the Bílé Karpaty Mts. **General distribution:** European. **Host plants:** *Salix alba*, *S. fragilis*. **Red List status:** Not evaluated.

Comments. *Macropsis gravesteini* has been recorded from the Czech Republic only for Bohemia (DLABOLA 1977; the corresponding material in Dlabola collection in the Muséum national d'Histoire naturelle in Paris comes from north-western Bohemia:

Vinné, 3.ix.1956, J. Dlabola leg., 1 ♀). Here we report it for the first time also for Moravia. Based on an unpublished material from the collections of the Moravian Museum, Brno, it also occurs on some other places of southern Moravia.

***Macropsis haupti* Wagner, 1941**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Bylnice, Bylničky (26), 24.vi.1982, 1 ♀, PL. Horní Němčí, Drahy NR (48), 30.vi.2001, 1 ♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♀, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♀, IM. Velká nad Veličkou, village (87), 19.vi.2000, 1 ♀, PK. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, although usually recorded in low numbers of specimens, near brooks and springs.

General distribution: European. **Host plants:** *Salix* spp. (monophagous on *S. purpurea* in central Europe). **Red List status:** –.

***Macropsis infusata* (J. Sahlberg, 1871)**

Material examined. Poteč, Ploštiny NR (12), 4.vii.1999, 1 ♀, IM. Valašské Klobouky, Bílé potoky NR (13), 16.vi.2006, 2 ♂♂, IM; 11.vii.2006, 2 ♂♂ 4 ♀♀, IM. Nedašov, Jalovcová stráň NR (17), 17.vi.2006, 1 ♂; 12.vii.2006, 1 ♂ 2 ♀♀; all IM, PK. Strání, Důbrava hill (62), 7.vii.1980, 2 ♂♂ 1 ♀, 3 larvae, PL. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♂ 3 ♀♀, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♀, IM. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 3 ♂♂, MT, JM & PC. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂ 4 ♀♀, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 1 ♀, IM. Javorník, Machová NR (102), 9.vii.1998, 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common throughout the area; at forest margins, in forest glades, along roads, and on solitary trees in meadows and pastures. **General distribution:** European. **Host plants:** *Salix caprea*, *S. myrsinifolia*. **Red List status:** –.

***Macropsis marginata* (Herrich-Schäffer, 1836)**

Material examined. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 1 ♂ 2 ♀♀, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 7 ♂♂ 7 ♀♀, IM. Komňa, Lom Rasová NM (54), 5.vii.2001, 1 ♂ 16 ♀♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 3 ♂♂ 11 ♀♀, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♂ 2 ♀♀, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♀, IM. Velká nad Veličkou, village (87), 19.vi.2000, 1 ♂ 2 ♀♀, PK. Javorník, Jazevčí NNR (96), 19.vi.2000, 5 ♀♀, IM. Strání, Záhumenice NM (104), 8.vi.2001, 28 ♂♂ 5 ♀♀, 5 larvae, PL.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area and locally common, e.g. near springs, in abandoned quarries or along streams. **General distribution:** European. **Host plants:** *Salix* spp. (monophagous on *S. purpurea* in central Europe). **Red List status:** –.

***Macropsis najas* Nast, 1981**

Material examined. Velká nad Veličkou, village (87), 19.vi.2000, 1 ♀, PK.

Distribution and frequency in the Bílé Karpaty PLA: Known from only one site at the south-western foothills of the Bílé Karpaty Mts. **General distribution:** Central Europe. **Host plant:** *Salix alba*. **Red List status:** –.

***Macropsis notata* (Prohaska, 1923)**

Material examined. Boršice u Blatnice, Boršický potok brook valley (41), 16.viii.1984, 3 ♀♀, PL. Vápenice, Krátkovský potok brook valley (66), 6.vii.2001, 3 ♀♀, IM & PK. Radějov, Žerotín NM (73), 11.vii.1998, 1 ♀, IM. Radějov, Lučina (76), 14.vii.1998, 1 ♀, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Recorded mainly from valleys of brooks in the south-western and central parts of the area. **General distribution:** Palearctic. **Host plants:** *Salix triandra*, *S. fragilis*. **Red List status:** –.

***Macropsis ocellata* Provancher, 1872**

= *Macropsis albae* Wagner, 1950

Material examined. Radějov, Žerotín NM (73), 11.vii.1998, 2 ♂♂ 2 ♀♀, IM. Radějov, Lučina (76), 28.vii.2000, 2 ♀♀, IM & PK; 17.vi.2000, 1 ♀, IM; 20.ix.2001, 1 ♀, IM. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 2 ♂♂ 5 ♀♀, IM & PK. Malá Vrbka, village (81), 19.vi.2000, 1 ♂ 1 ♀, IM & PK. Velká nad Veličkou, village (87), 19.vi.2000, 1 ♂ 4 ♀♀, PK.

Distribution and frequency in the Bílé Karpaty PLA: Perhaps restricted to the south-western foothills of the area; near springs and ponds as well as on ornamental weeping willows in villages. **General distribution:** Europe, introduced to North America. **Host plant:** *Salix alba*. **Red List status:** –.

***Macropsis prasina* (Boheman, 1852)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Distribution and frequency in the Bílé Karpaty PLA: Known from only one site in the south-western part of the area, but perhaps under-recorded; in wet places in meadows and in a brook floodplain. **General distribution:** Eurosiberian. **Host plants:** *Salix* spp. (*S. cinerea*, *S. viminalis*, *S. aurita*, and *S. caprea*). **Red List status:** –.

***Macropsis vicina* (Horváth, 1897)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂ 1 ♀, IM. Radějov, Lučina (76), 14.vii.1998, 1 ♀, IM. Velká nad Veličkou, village (87), 19.vi.2000, 3 ♀♀, PK.

Distribution and frequency in the Bílé Karpaty PLA: Probably restricted to the relatively warm, south-western part of the area; at forest margins and along roads in brook floodplains. **General distribution:** Eurosiberian, introduced to North America. **Host plant:** *Populus alba*. **Red List status:** –.

***Macrosteles cristatus* (Ribaut, 1927)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Radějovka brook valley (79).

Additional material examined. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 2 ♂♂; 13.ix.1999, LT, 3 ♂♂; all IM. Valašské Klobouky, U Rybníků (6), 10.ix.1999, 4 ♂♂, IM. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 15 ♂♂ 8 ♀♀, IM. Valašské Klobouky, Brumovka brook valley (9), 9.ix.1999, 1 ♂, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 13 ♂♂ 16 ♀♀, IM. Valašské Klobouky, Královec hill (11), 10.ix.1999, many ♂♂ ♀♀, IM. Poteč, Ploštiny NR (12), 13.ix.1999, 3 ♂♂, IM; 1.vi.2002, 4 ♂♂, IM; 17.viii.2006, 3 ♂♂, PK. Brumov, Uhličky (14), 30.vi.2004, 1 ♂; 1.ix.2004, 1 ♂ 3 ♀♀ 1 larva; all IM. Nedašov, Jalovcová stráň NR (17), 3.vii.1999, 1 ♂, IM. Bylnice, Bylničky (26), 24.vi.1982, 8 ♂♂, PL. Bylnice, railway station environs (27), 11.ix.1999, 3 ♂♂, IM. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 1 ♂, IM. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 1 ♂, IM. Korytná, Břeží (46), 5.vii.2001, 2 ♂♂, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 11 ♂♂, IM. Komňa, Nový Dvůr (53), 21.viii.1984, 1 ♂, PL. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 2 ♂♂; 10.ix.1998, 3 ♂♂; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 8.viii.2007, 7 ♂♂, IM. Vyškovec, Pod Hřibovňou NM (70), 8.ix.2005, 2 ♂♂, IM. Radějov, Holý vrch hill (74), 8.ix.1998, 1 ♂, IM. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 21 ♂♂, IM & PK. Radějov, Měsíční údolí valley (84), 8.ix.1998, 21 ♂♂, IM. Strání, Záhumenice NM (104), 20.vii.2002, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area; locally common in dry to wet habitats in early successional stages, e.g. on banks of streams and shores of ponds, in abandoned fields and quarries, and forest glades. **General distribution:** Eurosiberian. **Host plants:** Polyphagous (mainly on Poaceae). **Red List status:** –.

***Macrosteles fieberi* (Edwards, 1889)**

(VU)

Material examined. Bylnice, railway station environs (27), 11.ix.1999, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Rare, only one specimen was collected in a complex of dry to wet ruderal habitats in the north-eastern part of the area. **General distribution:** Holarctic. **Host plant:** *Eriophorum angustifolium* (but probably also on other plants in the Czech Republic). **Red List status:** Vulnerable.

Comments. In the Czech Republic, *M. fieberi* is a rare species occurring in peaty meadows e.g. in the Bohemian-Moravian Highlands but there are also populations living in lowlands of southern Moravia in salt marshes (e.g. the Nesyt pond near Sedlec). DLABOLA (1954) recorded the species from two localities in south-eastern Moravia quite near to the Bílé Karpaty PLA (Strážnice and Uherský Ostroh).

***Macrosteles frontalis* (Scott, 1875)**

Material examined. Komňa, Lom Rasová NM (54), 5.vii.2001, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Rare: recorded at only one site (a bottom of an abandoned quarry with a mosaic of dry to wet habitats in early successional stages) in the central part of the area. **General distribution:** Holarctic. **Host plants:** *Equisetum* spp. (*E. arvense*, *E. palustre*). **Red List status:** –.

***Macrosteles horvathi* (Wagner, 1935)**

(VU)

Published records. LANG (1945a): Březová, Kalábová NM (58).**Additional material examined.** Poteč, Ploščiny NR (12), 1.vi.2002, 1 ♂, IM. Komňa, Lom Rasová NM (54), 5.vii.2001, ?2 ♀♀, IM. Radějov, Kútky NR (86), 8.ix.1998, 1 ♂, IM. Javorník, loampit W of village (95), 7.ix.1998, 1 ♂; 24.v.2002, 2 ♂♂ 1 ♀; all IM.**Distribution and frequency in the Bílé Karpaty PLA:** Widespread but local and rare: in spring fens disturbed by cattle or game and at wet places on bottoms of abandoned quarries or loampits. **General distribution:** Eurosiberian. **Host plants:** *Juncus* spp. (*J. articulatus*, *J. gerardii*, *J. bufonius*). **Red List status:** Vulnerable.**Comments.** A rare and local species, otherwise known from the Czech Republic e.g. from the foothills of the Krkonoše Mts. in north-eastern Bohemia (DLABOLA 1954).***Macrosteles laevis* (Ribaut, 1927)****Published records.** LANG (1945a): Suchá Loz, Studený vrch hill (57); Březová, Kalábová NM (58).**Additional material examined.** Valašské Klobouky, Brumovská street (5), 9.ix.1999, 3 ♂♂; 13.ix.1999, LT, 1 ♂; all IM. Valašské Klobouky, U Rybníků (6), 10.ix.1999, 2 ♂♂, IM. Valašské Klobouky, Brumovka brook valley (9), 9.ix.1999, 6 ♂♂, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 1 ♂, IM. Poteč, Ploščiny NR (12), 13.ix.1999, 2 ♂♂, IM; 1.vi.2002, 4 ♂♂, IM; 24.viii.2002, 3 ♂♂ 2 ♀♀, PK. Valašské Klobouky, Bílé potoky NR (13), 16.vi.2006, 1 ♀, IM; 14.viii.2006, 2 ♂♂, PK. Brumov, Uhličky (14), 30.vi.2004, 2 ♂♂ 1 ♀; 5.x.2004, 1 ♂ 1 ♀; all IM; 28.vii.2005, 1 ♂ 1 larva; 4.ix.2005, 2 ♀♀; all PK. Nedašov, Jalovcová stráž NR (17), 16.viii.2006, 1 ♂ 2 ♀♀, PK. Nedašov, Kaňoury NM (18), 16.viii.2006, 1 ♂ 2 ♀♀, PK. Bylnice, railway station environs (27), 11.ix.1999, 8 ♂♂, IM. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 19 ♂♂, IM. Boršice. Boršický potok brook valley (41), 16.viii.1984, 1 ♂, PL. Korytná, Břeží (46), 5.vii.2001, 7 ♂♂, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 6 ♂♂, IM. Horní Němčí, Drahy NR (48), 10.ix.2002, 6 ♂♂, IM. Horní Němčí, Vinohrádky (49), 30.vi.2001, 34 ♂♂ 55 ♀♀, IM; 13.viii.2001, 57 ♂♂ 64 ♀♀ 49 larvae, PK; 21.ix.2001, 12 ♂♂ 18 ♀♀ 10 larvae, PK; 23.v.2002, 4 ♂♂ 3 ♀♀ 6 larvae, IM & PK; 20.vii.2002, 59 ♂♂ 57 ♀♀ 10 larvae, IM; 10.ix.2002, 132 ♂♂ 149 ♀♀ 84 larvae, IM. Komňa, Lom Rasová NM (54), 5.vii.2001, 1 ♂, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♂ 1 ♀, IM & PK. Korytná, Lubná pond environs (56), 5.vii.2001, 3 ♂♂, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 8 ♂♂, IM. Strání, Obecnice hill (60), 2.vii.2001, 10 ♂♂ 7 ♀♀, IM & PK; 9.viii.2001, 7 ♂♂ 10 ♀♀, PK; 21.ix.2001, 53 ♂♂ 36 ♀♀ 7 larvae, IM; 23.v.2002, 1 ♂ 1 ♀ 1 larva, IM; 20.vii.2002, 7 ♂♂ 2 ♀♀ 3 larvae, IM; 12.ix.2002, 25 ♂♂ 25 ♀♀ 12 larvae, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 4 ♂♂ 5 ♀♀; 8.viii.2007, 1 ♂; 22.ix.2007, 2 ♀♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 7 ♂♂ 16 ♀♀; 8.viii.2007, 1 ♂; 22.ix.2007, 10 ♂♂ 9 ♀♀; all IM. Výchovec, Výchovecké Bošačky (69), 27.vi.2004, ?1 ♀, IM; 25.ix.2004, ?1 ♀, PK; 24.vii.2005, ?1 ♀, PK; 3.ix.2005, ?2 ♀♀ 2 larvae, PK. Výchovec, Pod Hřibovňou NM (70), 8.ix.2005, 2 ♂♂, IM. Radějov, Holý vrch hill (74), 8.ix.1998, 3 ♂♂, IM. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 34 ♂♂, IM & PK. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♂, IM. Radějov, Kútky NR (86), 2.vi.1979, 1 ♂, PL; 8.ix.1998, 13 ♂♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 2 ♂♂, IM. Suchov, Suchovské Mlýny (89), 16.viii.2004, 2 ♂♂ 4 ♀♀, PK; 26.v.2005, 1 ♂, IM; 1.ix.2005, 2 ♀♀, IM. Suchov, Trnovský Mlýn (90), 1.x.2004, 3 ♂♂ 3 ♀♀, IM. Javorník, loampit W of village (95), 7.ix.1998, 1 ♂ 1 ♀, IM. Javorník, Jazevěč NNR (96), 10.ix.2000, 1 ♂ 1 ♀, IM. Javorník, Petruchovy Mlýny (97), 23.vi.2004, 1 ♀; 2.ix.2004, 26 ♂♂ 15 ♀♀ 5 larvae; 1.x.2004, 5 ♂♂ 6 ♀♀; 26.v.2005, 1 larva; 1.ix.2005, 1 ♂; all IM. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 4 ♂♂ 1 ♀, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 1 ♂, IM. Strání, Záhumenice NM (104), 2.vii.2001, 1 ♂ 1 ♀, IM; 9.viii.2001, 1 ♂ 1 ♀, PK; 21.ix.2001, 3 ♂♂ 3 ♀♀ 5 larvae, IM.**Distribution and frequency in the Bílé Karpaty PLA:** Widespread throughout the area; particularly common in intensively used pastures, on shores of water, in abandoned fields and on waysides but present in low numbers of specimens also in various other habitats.

General distribution: Holarctic. **Host plants:** Polyphagous (mainly on Poaceae, Cyperaceae, and Juncaceae). **Red List status:** –.

***Macrosteles maculosus* (Then, 1897)**

Material examined. Komňa, Lom Rasová NM (54), 5.vii.2001, 4 ♀♀, IM. Javorník, Výzkum hill (103), 10.vi.1982, 2 ♂♂ 1 ♀, PL.

Distribution and frequency in the Bílé Karpaty PLA: Rare and local: known from only two sites in the central and south-western parts of the area; perhaps associated with disturbed habitats or early successional stages. **General distribution:** Central and southern Europe. **Host plant:** *Picris hieracioides*. **Red List status:** –.

***Macrosteles sardus* Ribaut, 1948**

Material examined. Poteč, Ploščiny NR (12), 1.vi.2002, 28 ♂♂ 14 ♀♀, IM; 24.viii.2002, 1 ♂ 4 ♀♀, PK. Malá Vrbka, Výzkum hill (80), 28.vii.2001, 1 ♂, IM & PK.

Distribution and frequency in the Bílé Karpaty PLA: Collected in only two places in the north-eastern and south-western parts of the area: a forest glade and abandoned field. **General distribution:** Western Palaearctic. **Host plant:** Probably *Epilobium hirsutum*. **Red List status:** –.

***Macrosteles septemnotatus* (Fallén, 1806)**

(NT)

Material examined. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 1 ♂, IM. Nedašov, Kaňoury NM (18), 12.vii.2006, 2 ♀♀, IM. Nedašov, Pod Cigánem NM (30), 30.vi.2004, 1 ♀; 1.ix.2004, 40 ♂♂ 20 ♀♀ 26 larvae; 5.x.2004, 2 ♂♂ 5 ♀♀ 1 larva; 28.vii.2005, 1 ♀; 6.ix.2005, 1 ♂ 3 ♀♀ 1 larva; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Apparently restricted to quite cool and wet habitats in the north-eastern part of the area. **General distribution:** Eurosiberian. **Host plant:** *Filipendula ulmaria*. **Red List status:** Near-threatened.

***Macrosteles sexnotatus* (Fallén, 1806)**

Published records. LANG (1945a): Březová, Kalábová NM (58).

Additional material examined. Bylnice, railway station environs (27), 11.ix.1999, 24 ♂♂, IM. Sidonie, Vlárka brook valley above village (31), 8.ix.1981, 1 ♂, LP. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 36 ♂♂, IM. Horní Němčí, Drahy NR (48), 10.ix.2002, 3 ♂♂, IM. Boršice. Boršický potok brook valley (41), 16.viii.1984, 1 ♂, PL. Korytná, Lubná pond environs (56), 5.vii.2001, 3 ♂♂, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 1 ♂, IM. Strání, Obecnice hill (60), 23.v.2002, 1 ♂, IM & PK. Javorník, village (92), 8.viii.2001, 1 ♂, PK. Javorník, Petruchovy Mlýny (97), 29.vi.2001, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area and locally common in disturbed wet places, mainly on stream banks and shores of ponds and in pastures. **General distribution:** Palaearctic. **Host plants:** Polyphagous (mainly on Poaceae, Cyperaceae and Juncaceae). **Red List status:** –.

Macrosteles variatus (Fallén, 1806)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Radějovka brook valley (79).

Additional material examined. Horní Němčí, Drahý NR (48), 10.ix.2002, 2 ♀♀, IM. Javorník, Jazevčí NNR (96), 10.ix.2000, 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Quite rare in eutrophicated, moderately wet places in the south-western part of the area; perhaps under-recorded.

General distribution: European. **Host plants:** *Urtica dioica*. **Red List status:** –.

Macrosteles viridigriseus (Edwards, 1922)

Material examined. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 4 ♂♂, IM. Starý Hrozenkov, Skalka quarry (67), 22.ix.2007, 1 ♂, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♂, IM. Radějov, Kútky NR (86), 2.vi.1979, 1 ♂, PL. Javorník, village (92), 24.v.2002, 2 ♂♂ 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Quite scattered and local in the south-western and central parts of the area; in open, disturbed wet habitats, mainly on shores of ponds and stream banks, and also on the bottom of an abandoned quarry.

General distribution: European. **Host plants:** Polyphagous on Poaceae and Cyperaceae. **Red List status:** –.

Megophthalmus scanicus (Fallén, 1806)

Published records. LANG (1945a): Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 1 ♀, IM. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 1 ♂, MH; 9.ix.1999, 1 ♀, IM. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 1 ♂ 3 ♀♀, IM. Brumov, Uhlíčky (14), 30.vi.2004, 1 ♂ 1 larva, IM; 4.vii.–6.viii.2005, 1 ♂, PT, KR. Nedašov, village (15), 3.vii.1999, 1 ♂, IM. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 1 ♂, IM. Nedašov, Kaňoury NM (18), 12.vii.2006, 6 ♂♂, IM; 16.viii.2006, 1 ♀, PK. Brumov, Kloboucká street (24), 4.vii.–6.viii.2005, 2 ♂♂, PT, KR. Bylnice, Na Stráži (25), 11.vii.2006, 1 ♀, IM. Bylnice, railway station environs (27), 1.vii.1999, 1 ♀, MH & PK. Nedašov, Pod Cigánem NM (30), 28.vii.2005, 6 ♂♂, IM. Suchov, Búrová NNM (43), 13.vii.1998, 1 ♂, IM. Horní Němčí, Hornoněmčanský háj forest (45), 7.vii.1980, 1 ♂, PL. Korytná, Břeží (46), 5.vii.2001, 1 ♂, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 4 ♀♀, IM. Horní Němčí, Vinohrádky (49), 22.vi.–24.vii.2003, 1 ♀; 22.viii.–27.ix.2003, 1 ♀; both PT, KR. Vápenice, Trstná brook valley (55), 6.vii.2001, 10 ♂♂ 1 ♀, IM & PK. Strání, Obecnice hill (60), 24.v.2001, 1 larva, IM. Lopeník, U Zvonice NM (63), 24.vii.2005, 1 ♂, IM; 26.vii.–26.viii.2005, 1 ♂, PT, KR. Lopeník, Lopenické sedlo (64), 25.ix.2004, 1 ♀, IM; 26.vi.–26.vii.2005, 1 larva; 26.vii.–26.viii.2005, 1 ♂; both PT, KR. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♂; 8.viii.2007, 1 ♂; both IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 4 ♂♂, IM. Výskovec, Výskovecké Bošačky (69), 19.viii.2004, 1 ♀; 24.vii.2005, 3 ♂♂ 1 ♀; 3.ix.2005, 1 ♀; all PK. Výskovec, Pod Hřibovňou NM (70), 24.vii.2005, 1 ♀, PK. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂; 28.vii.2000, 2 ♂♂ 1 ♀; all IM. Malá Vrbka, Výzkum hill (80), 4.iii.–8.iv.2000, 2 ♀♀, PT, PBz; 18.vi.2000, 15 ♂♂ 2 ♀♀, IM & PK. Radějov, Měsíční údolí valley (84), 8.ix.1998, 4 ♀♀, IM. Radějov, Veselka hill (85), 11.vii.1998, 1 ♂, IM. Radějov, Kútky NR (86), 11.vii.1998, 1 ♂, IM. Velká nad Veličkou, village (87), 19.vi.2000, 3 ♂♂ 1 ♀, PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 1 ♂ 4 ♀♀; 9.–10.ix.2000, 7 ♀♀, IM. Suchov, Suchovské Mlýny (89), 23.vi.2004, 1 larva; 27.vii.2005, 1 ♂; 1.ix.2005, 1 ♀; all IM. Suchov, Trnovský Mlýn (90), 4.vii.–6.viii.2005, 1 ♂, PT, KR. Javorník, Nad Vápenkou NM (94), 7.ix.1998, 6 ♀♀; 7.ix.2002, 1 ♀; all IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 19 ♂♂ 1 ♀; 10.ix.2000, 6 ♀♀; all IM. Javorník, Petruchovy Mlýny (97), 26.vi.2001, 3 ♂♂, IM. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 4 ♂♂ 1 ♀; 9.ix.1998, 3 ♀♀; all IM. Strání,

Záhumenice NM (104), 2.vii.2001, 12 ♂♂ 2 ♀♀, PK; 21.ix.2001, 8 ♀♀, IM. Strání, Javorina NNR (106), 4.vii.2001, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in meadows and pastures throughout the area. **General distribution:** Western Palaearctic. **Host plants:** Fabaceae (e.g. *Trifolium*, *Medicago*, *Lupus*). **Red List status:** –.

Metalimnus steini (Fieber, 1869)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Radějovka brook valley (79) [cited as *Metalimnus formosus* (Boheman, 1845), misidentified]. MALENOVSKÝ & LAUTERER (2010): Kněždub, Čertoryje NNR, Járkovec brook valley (77); Kněždub, Čertoryje NNR, Radějovka brook valley (79); Radějov, Měsíční údolí valley (84); Radějov, Kútky NR (86).

Additional material examined. Bylnice, railway station environs (27), 11.ix.1999, 1 ♂ 1 ♀, IM. Horní Němčí, Drahy NR (48), 10.ix.2002, 1 ♀, IM. Korytná, Lubná pond environs (56), 5.vii.2001, 1 ♂, IM. Lopeník, U Zvonice NM (63), 24.vii.2005, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area but quite uncommon; in moderately wet habitats, e.g. in disturbed places in brook floodplains or in spring fens in pastures. **General distribution:** European. **Host plant:** *Carex hirta*. **Red List status:** –.

Comments. The distribution of *M. steini* in the Czech Republic was mapped by MALENOVSKÝ & LAUTERER (2010); the species has been recorded largely from south-eastern Moravia.

Metidiocerus rutilans (Kirschbaum, 1868)

Material examined. Valašské Klobouky, Brumovská street (5), 19.v.1999, 1 ♀, IM. Valašské Klobouky, Bílé potoky NR (13), 19.v.1999, 1 ♀, IM; 11.vii.2006, 1 ♀, IM. Bylnice, railway station environs (27), 21.v.1999, 1 ♀, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♀, IM. Radějov, Lučina (76), 28.vii.2000, 2 ♀♀, IM & PK.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area but only rarely recorded; mainly near standing or running water. **General distribution:** Eurosiberian. **Host plants:** *Salix* spp. (*S. viminalis*, *S. purpurea*, *S. triandra*, *S. alba*, *S. elaeagnos*, *S. fragilis*, *S. caprea*). **Red List status:** –.

Comments. *Metidiocerus rutilans* was published from Moravia (Černovír near Olomouc) by DLABOLA (1952). Based on a revision of the corresponding specimens in Dlabola's collection in the Muséum national d'Histoire naturelle in Paris, the identification is correct. Nevertheless, the species was later omitted in the monograph on the Czechoslovak fauna (DLABOLA 1954), as well as in the check-list (DLABOLA 1977). It is probably widespread in the whole country, including Bohemia (e.g. MALENOVSKÝ 2006).

Mocystia crocea (Herrich-Schäffer, 1837)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Brumovka brook valley (9), 9.ix.1999, 1 ♂, IM. Poteč, Ploščiny NR (12), 13.ix.1999, 1 ♂; 1.vi.2002, 1 ♀; both IM. Valašské Klobouky, Bílé potoky NR (13), 14.viii.2006, 1 ♂ 2 ♀♀, PK. Brumov, Uhlíčky (14), 1.ix.2004, 2 larvae, IM. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 1 ♀; 10.ix.1999, 1 ♂ 1 ♀; 30.vi.2004, 1 ♀; 1.ix.2004, 2 ♂♂ 1 larva; 28.v.2005, 1 ♀; 28.vii.2005, 4 larvae; 6.ix.2005, 1 ♂; all IM. Brumov, Kloboucká street (24), 2.ix.2004, 1 ♂ 1 ♀ 2 larvae, IM; 28.vii.2005, 2 larvae, PK; 4.vii.–6.viii.2005, 1 larva, PT, KR. Hluk, Kobylí hlava NM (35), 24.viii.2002, 3 ♀♀, IM. Hluk, Babí hora NM (36), 24.viii.2002, 3 ♂♂ 2 ♀♀, IM. Blatnička, Milejovské louky meadows (39), 16.viii.2009, 1 ♀, PB. Horní Němčí, Drahy NR (48), 15.v.1998, 1 ♀; 10.ix.1998, several ♂♂ ♀♀; all IM; 30.vi.2001, 27 larvae, IM & PK; 13.viii.2001, 3 ♂♂ 2 larvae, PK; 21.vii.2002, 2 ♂♂ 2 ♀♀ 13 larvae, IM; 10.ix.2002, 1 ♂ 1 ♀, IM. Horní Němčí, Vinohrádky (49), 13.viii.2001, 1 larva, PK. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 1 ♂, IM. Starý Hrozenkov, Skalka quarry (67), 8.viii.2007, 3 ♀♀; 22.ix.2007, 1 ♂ 1 ♀; all IM. Kněždub, Kněždubský háj forest (75), 20.ix.2001, 1 ♂ 1 ♀, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♂ 1 ♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 14.v.1998, 1 ♀; 13.vii.1998, 1 ♀; 18.iv.2000, 2 ♂♂ 1 ♀; 9.–10.ix.2000, 2 ♂♂ 3 ♀♀; all IM. Suchov, Suchovské Mlýny (89), 16.viii.2004, 1 ♂ 2 larvae, PK; 1.x.2004, 1 ♂, IM; 26.v.2005, 2 ♀♀, IM; 27.vii.2005, 9 larvae, IM. Javorník, Nad Vápenkou NM (94), 7.ix.1998, several ♂♂ ♀♀; 7.ix.2002, 2 ♂♂, IM. Javorník, loampit W of village (95), 24.v.2002, 2 ♀♀, IM. Javorník, Jazevčí NNR (96), 6.v.2000, 1 ♀, IM. Javorník, Petruchovy Mlýny (97), 29.vi.2001, 2 larvae; 23.ix.2001, 1 ♂; all IM. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 1 ♂, IM. Strání, Záhumenice NM (104), 21.ix.2001, 1 larva, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common among tall grass in open sites throughout the area, e.g. in neglected parts of meadows, ruderal sites, and along forest margins. **General distribution:** European. **Host plants:** Poaceae (*Brachypodium pinnatum*, *Bromus erectus*, *Calamagrostis epigejos*, *Elytrigia repens*). **Red List status:** –.

Mocydiopsis longicauda Remane, 1961

(VU)

Published records. LANG (1945a): Korytná, Lipiny forest (38) [cited as “*Mocydia attenuata* Germ.”, misidentified].

Additional material examined. Hluk, Babí hora NM (36), 24.viii.2002, 10 ♂♂ 11 ♀♀, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, 2 ♂♂ 2 ♀♀, IM; 30.vi.2001, 9 larvae, PK; 21.ix.2001, 2 ♀♀, PK; 21.vii.2002, 2 ♂♂ 1 ♀, IM; 10.ix.2002, 1 ♂, IM; 24.vii.–22.viii.2003, 1 ♀, PT, KR. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 18.iv.2000, 3 ♀♀, IM; 18.viii.2000, 1 ♀, PK; 9.–10.ix.2000, 8 ♂♂ 8 ♀♀, IM. Javorník, Nad Vápenkou NM (94), 9.vii.1998, 1 ♀; 7.ix.1998, 3 ♂♂ 1 ♀; 7.ix.2002, 3 ♂♂ 2 ♀♀; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Restricted to open xerothermic sites in the south-western and central parts of the area, locally common in fragments of dry grassland. **General distribution:** Central and southern Europe. **Host plants:** Fine-leaved *Festuca* spp. (*F. rupicola* in the Bílé Karpaty PLA). **Red List status:** Vulnerable.

Comments. Widespread in dry grassland sites in relatively warm areas of the Czech Republic: central Bohemia and southern Moravia (REMANE 1961, LAUTERER 2000, MALENOVSKÝ 2006, MALENOVSKÝ *et al.* 2011).

Neoliturus fenestratus (Herrich-Schäffer, 1834)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Nedašov, Jalovcová stráň NR (17), 6.ix.2005, 1 ♂, IM. Korytná, Břeží (46), 5.vii.2001, 1 ♀, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, several ♂♂ ♀♀; 30.vi.2001, 1 ♀; all IM; 21.ix.2001, 3 ♂♂, PK; 10.ix.2002, 2 ♂♂ 2 ♀♀, IM. Horní Němčí, Vinohrádky (49), 30.vi.2001, 1 ♂, IM; 21.ix.2001, 1 ♂, PK; 20.vii.2002, 1 larva, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 1 ♂, IM. Strání, Obecnice hill (60), 21.ix.2001, 1 ♂ 1 ♀, IM. Starý Hrozenkov, Skalka quarry (67), 8.viii.2007, 1 ♀; 22.ix.2007, 1 ♂ 1 ♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♀, IM. Radějov, Holý vrch hill (74), 8.ix.1998, 1 ♂ 1 ♀, IM. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 6 ♂♂ 3 ♀♀; 8.ix.2000, 2 ♂♂ 1 ♀ 1 larva; 22.vi.2001, 6 ♂♂ 5 ♀♀; 20.ix.2001, 116 ♂♂ 54 ♀♀ 21 larvae; all IM & PK. Hrubá Vrbka, football ground (82), 16.viii.2000, 1 ♂, PK; 20.ix.2001, 1 ♀, IM. Hrubá Vrbka, village (83), 27.–29.vi.2008, 1 ♂, ZM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 1 ♂ 1 ♀, IM. Suchov, Suchovské Mlýny (89), 1.x.2004, 12 ♂♂ 7 ♀♀; 1.ix.2005, 1 ♀; all IM. Javorník, Jazevčí NNR (96), 10.ix.2000, 1 ♂, IM. Strání, Záhumenice NM (104), 20.vii.2002, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, although generally quite local and more common in the south-west; in abandoned fields, sunny pastures, and fragments of dry grasslands. **General distribution:** Western Palearctic. **Host plants:** Asteraceae (e.g. *Leontodon* spp.). **Red List status:** –.

Comments. The males from the Bílé Karpaty PLA correspond to *N. fenestratus* s.str. according to TISHECHKIN (2007).

Notus flavipennis (Zetterstedt, 1828)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Bylnice, railway station environs (27), 11.ix.1999, 6 ♂♂ 11 ♀♀, IM. Nedašov, Na Salaši (29), 10.ix.1999, 8 ♂♂ 12 ♀♀, IM. Blatnička, Milejovské louky meadows (39), 11.vii.2009, 1 ♀, PB. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 1 ♀, IM. Radějov, Měsíční údolí valley (84), 20.viii.2002, 1 ♂ 2 ♀♀, PK.

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area but only locally common; confined to tall-sedge stands, mainly near standing or slowly running water, rarely also in spring fens. **General distribution:** Eurosiberian. **Host plants:** *Carex* spp. (*C. acutiformis*, *C. acuta*, *C. nigra*, *C. rostrata*, *C. vesicaria*, *C. paniculata*, *C. disticha*), *Bolboschoenus maritimus*. **Red List status:** –.

Oncopsis alni (Schrank, 1801)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Radějovka brook valley (79).

Additional material examined. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 2 ♂♂ 7 ♀♀, MH. Valašské Klobouky, Bílé potoky NR (13), 16.vi.2006, 3 ♂♂, IM. Bylnice, railway station environs (27), 1.vii.1999, 9 ♀♀, MH & PK. Blatnička, Milejovské louky meadows (39), 11.vii.2009, 1 ♀, PB. Horní Němčí, Drahy NR (48), 30.vi.2001, 1 ♂ 3 ♀♀; 23.v.2002, 2 ♂♂; all IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♂, IM. Vápenice, Krátkovský potok brook valley (66), 6.vii.2001, 1 ♂, IM & PK. Radějov, Lučina (76), 14.vii.1998, 1 ♂, IM; 17.vi.2000, 1 ♀, IM; 22.vi.2001, 1 ♀, IM & PK. Kněždub, Čertoryje NNR (77, 79), 22.v.2000, 1 ♂, PK. Strání, Záhumenice NM (104), 15.vi.2010, 5 ♂♂, MT, JM & PC.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common throughout the area, usually near standing or running water. **General distribution:** European. **Host plants:** *Alnus glutinosa*, *A. incana*. **Red List status:** –.

***Oncopsis appendiculata* Wagner, 1944**

Material examined. Komňa, Lom Rasová NM (54), 5.vii.2001, 1♂, IM. Velká nad Veličkou, village (87), 19.vi.2000, 2♂♂, PK.

Distribution and frequency in the Bílé Karpaty PLA: Collected on solitary birches (*Betula pendula*) at only two sites: an abandoned quarry in the central part of the area and a village in the south-west. **General distribution:** European. **Host plants:** *Betula pendula*, *B. pubescens*. **Red List status:** –.

Comments. *Oncopsis appendiculata* is apparently a rare and local species in the Czech Republic: the only previously published records from the country are from the city of Brno (MALENOVSKÝ & LAUTERER 2005b).

***Oncopsis carpini* (J. Sahlberg, 1871)**

Material examined. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 1♂ 3♀♀, MH. Valašské Klobouky, Bílé potoky NR (13), 30.vi.1999, 1♂, PK; 16.vi.2006, 8♂♂, IM; 11.vii.2006, 3♂♂ 8♀♀, IM. Nedašov, Jalovcová stráň NR (17), 17.vi.2006, 1♂, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 1.vii.1999, 1♀, PK. Horní Němčí, Drahy NR (48), 23.v.2002, 1♀, IM. Nedašov, Na Salaši (29), 3.vii.1999, 1♀, IM. Strání, Důbrava hill (62), 7.vii.1980, 1♂, PL. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1♀, IM. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 2♀♀, IM & PK. Radějov, Kútky NR (86), 2.vi.1979, 3♂♂ 2♀♀, PL. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 19.vi.2000, 1♀, PK. Javorník, Jazevčí NNR (96), 19.vi.2000, 2♂♂ 2♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common along forest margins throughout the area. **General distribution:** European. **Host plant:** *Carpinus betulus*. **Red List status:** –.

***Oncopsis flavicollis* (Linnaeus, 1761)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Valašské Klobouky, Brumovská street (5), 19.v.1999, 3♂♂ 3♀♀, IM. Valašské Klobouky, U Rybníků (6), 22.v.1999, 1♂, IM. Valašské Klobouky, Javorůvky NR (7), 22.v.1999, 2♂♂, IM. Valašské Klobouky, Dobšená NM (8), 22.v.1999, 1♀; 2.vii.1999, 1♂ 1♀; all IM. Valašské Klobouky, Brumovka brook valley (9), 19.v.1999, 1♂, IM. Poteč, Ploštiny NR (12), 4.vii.1999, 1♂ 2♀♀; 1.vi.2002, 1♂ 7♀♀; all IM. Valašské Klobouky, Bílé potoky NR (13), 19.v.1999, 2♂♂; 16.vi.2006, 7♂♂; all IM. Nedašov, Jalovcová stráň NR (17), 17.vi.2006, 21♂♂ 7♀♀; 12.vii.2006, 1♂ 1♀; all IM. Nedašov, Kaňoury NM (18), 17.vi.2006, 4♂♂, IM; 12.vii.2006, 2♂♂ 2♀♀, IM. Nedašov, Kaňúr hill and Hrušová dolina valley (19), 20.v.1999, 2♂♂, IM. Bylnice, Na Stráži (25), 16.vi.2006, 1♀, IM. Bylnice, railway station environs (27), 21.v.1999, 1♂, IM; 1.vii.1999, 1♀, MH & PK. Nedašov, Pod Cigánem NM (30), 28.v.2005, 1♂ 1♀ 1 larva, IM. Korytná, Břeží (46), 5.vii.2001, 1♀, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 1♂ 1♀; 23.v.2002, 5♂♂; all IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 1♂, IM & PK. Strání, village (61), 16.v.1998, 1♂, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 2♀♀, IM. Radějov, Lučina (76), 7.v.2000, 2♀♀, IM; 22.vi.2001, 2♀♀, IM & PK. Velká nad Veličkou, village (87), 19.vi.2000, 2♂♂ 3♀♀, PK. Javorník, village (92), 6.v.2000, many♂♂♀♀; 24.v.2002, 4♂♂ 5♀♀; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common on birches (*Betula pendula*) in various habitats throughout the area: meadows and pastures, small woods, as well as villages. **General distribution:** Palaearctic. **Host plants:** *Betula pendula*, *B. pubescens*. **Red List status:** –.

***Oncopsis subangulata* (J. Sahlberg, 1871)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Poteč, Ploščiny NR (12), 1.vi.2002, 4 ♂♂ 6 ♀♀, IM; 17.viii.2006, 1 ♀, PK. Valašské Klobouky, Bílé potoky NR (13), 16.vi.2006, 2 ♀♀; 11.vii.2006, 2 ♀♀; all IM. Nedašov, Jalovcová stráň NR (17), 3.vii.1999, 1 ♀; 17.vi.2006, 3 ♀♀; all IM. Nedašov, Kaňoury NM (18), 17.vi.2006, 2 ♀♀, IM; 12.vii.2006, 2 ♀♀, IM. Bylnice, railway station environs (27), 1.vii.1999, 1 ♀, MH & PK. Horní Němčí, Drahy NR (48), 23.v.2002, 2 ♂♂, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♂, IM & PK. Javorník, village (92), 24.v.2002, 13 ♂♂ 14 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and locally common on birches (*Betula pendula*) in various habitats throughout the area. **General distribution:** European. **Host plants:** *Betula pendula*, *B. pubescens*. **Red List status:** –.

***Oncopsis tristis* (Zetterstedt, 1840)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 1 ♂, MH. Poteč, Ploščiny NR (12), 4.vii.1999, 1 ♂ 6 ♀♀, IM; 13.ix.1999, 6 ♀♀, IM; 17.viii.2006, 1 ♀, PK. Nedašov, Jalovcová stráň NR (17), 12.vii.2006, 1 ♂, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 2 ♀♀, IM & PK. Radějov, Lučina (76), 17.vi.2000, 1 ♀, IM; 22.vi.2001, 1 ♂, IM & PK.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread on birches throughout the area, e.g. in pastures and forest glades, although quite rarely collected. **General distribution:** Eurosiberian. **Host plants:** *Betula pendula*, *B. pubescens*. **Red List status:** –.

***Ophiola decumana* (Kontkanen, 1949)**

Material examined. Hluk, Kobylí hlava NM (35), 24.viii.2002, 1 ♀, IM. Strání, Obecnice hill (60), 21.ix.2001, 1 ♀, IM. Lopeník, Mikulčín vrch hill (65), 24.vii.2005, 1 ♂, IM. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 2 ♂♂ 3 ♀♀; 22.vi.2001, 12 ♂♂ 8 ♀♀; 28.vii.2001, 1 ♀; 20.ix.2001, 3 ♂♂ 3 ♀♀; all IM & PK. Suchov, Trnovský Mlýn (90), 23.vi.2004, 1 ♂, IM. Javorník, Petruchovy Mlýny (97), 29.vi.2001, 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Quite local in abandoned fields, pastures, and forest glades in the south-western and central parts of the area. **General distribution:** Eurosiberian. **Host plants:** *Polygonum aviculare* agg., *Rumex acetosella*, *Vaccinium myrtillus*, *Calluna vulgaris*. **Red List status:** –.

***Ossiannilssonola callosa* (Then, 1886)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Valašské Klobouky, Brumovská street (5), 13.ix.1999, 1 ♂, LT, IM. Boršice u Blatnice, Boršický potok brook valley (41), 16.viii.1984, 1 ♂ 4 ♀♀, PL. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♂, IM. Lopeník, U Zvonice NM (63), 25.ix.2004, 1 ♀, IM. Lopeník, Mikulčín vrch hill (65), 25.ix.2004, 2 ♀♀, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 6 ♀♀; 28.vii.2000, 1 ♀; all IM; 22.vi.2001, 3 ♂♂ 3 ♀♀, IM & PK; 20.ix.2001, 1 ♀, IM. Radějov, Veselka hill (85), 11.vii.1998, 1 ♀, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 3 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, quite common at forest margins. **General distribution:** European. **Host plants:** *Acer pseudoplatanus*. **Red List status:** –.

Pediopsis tiliae (Germar, 1831)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Nedašov, village (15), 17.viii.2006, 1 ♀, PK. Nedašov, Kaňoury NM (18), 16.viii.2006, 1 ♀, PK. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 1.vii.1999, 1 ♀, PK. Horní Němčí, Hornoněmčanský háj forest (45), 7.vii.1985, 2 ♂♂, PL. Suchov, Kazivec brook valley (47), 9.ix.1998, 2 ♀♀, IM. Horní Němčí, Uvezené NM (50a), 10.vii.2009, 2 ♀♀, ZM. Komňa, Lom Rasová NM (54), 5.vii.2001, 1 ♂, IM. Vyškovec, Vyškovecké Bošачky (69), 25.ix.2004, 1 ♀, PK. Radějov, Žerotín NM (73), 11.vii.1998, 3 ♀♀, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂ 1 ♀, IM. Radějov, Lučina (76), 14.vii.1998, 1 ♂ 1 ♀, IM. Malá Vrbka, Výzkum hill (80), 22.vi.2001, 1 ♂, IM & PK. Radějov, Měsíční údolí valley (84), 20.viii.2002, 3 ♀♀, PK. Velká nad Veličkou, village (87), 18.viii.2000, 1 ♀, PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 1 ♀, IM. Javorník, village (92), 8.viii.2001, 2 ♀♀, PK. Javorník, Jazevčí NNR (96), 19.vi.2000, 3 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, quite common at forest margins and on solitary trees in villages. **General distribution:** European. **Host plants:** *Tilia cordata*, *T. platyphyllos*. **Red List status:** –.

Penthimia nigra (Goeze, 1778)

Material examined. Starý Hrozenkov, Skalka quarry (67), 22.ix.2007, 4 larvae, IM. Javorník, Jazevčí NNR (96), 12.v.–2.vi.2009, 1 ♀, MT, PC, JJ & JM. Kněždub, Kněždubský háj forest (75), 20.ix.2001, 1 larva, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 14.v.1998, 2 ♀♀; 27.vii.2000, 1 ♀; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Quite rare and local at sunny forest margins in the south-western and central parts of the area. **General distribution:** Central and southern Europe, Mediterranean area. **Host plants:** Polyphagous on deciduous trees (e.g. *Quercus* spp., *Populus* spp., *Robinia pseudoacacia*). **Red List status:** –.

Pithyotettix abietinus (Fallén, 1806)

Material examined. Valašské Klobouky, Královec hill (11), 2.vii.1999, 1 ♀, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♀, IM. Velká nad Veličkou, village (87), 19.vi.2000, 1 ♀, PK.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread but only rarely recorded; at spruce forests margins, as well as in a cemetery in a village. **General distribution:** Eurosiberian. **Host plant:** *Picea abies*. **Red List status:** –.

Planaphrodes bifasciata (Linnaeus, 1758)

Material examined. Horní Němčí, Drahy NR (48), 30.vi.2001, 1 ♂ 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Known from only one site (a xerothermic pasture) in the south-western part of the area but perhaps under-recorded

(living close to the ground and only rarely recorded by sweeping). **General distribution:** European. **Host plants:** Poaceae (*Avenula pubescens*, *Brachypodium pinnatum*, *Briza media*, *Bromus erectus*, *Festuca ovina*, *F. rubra*, *Trisetum flavescens*), *Carex flacca*. **Red List status:** –.

***Planaphrodes nigrita* (Kirschbaum, 1868)**

Material examined. Valašské Klobouky, Bílé potoky NR (13), 30.vi.1999, 1 ♂, PK. Vápenice, Trstná brook valley (55), 6.vii.2001, ?1 larva, IM & PK. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♂, IM. Radějov, Veselka hill (85), 11.vii.1998, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area but perhaps under-recorded; in forest undergrowth and along forest roads. **General distribution:** European. **Host plants:** Probably on Poaceae. **Red List status:** –.

***Planaphrodes trifasciata* (Geoffroy, 1785)**

Published records. LANG (1945a): Suchá Loz, Studený vrch hill (57).

Distribution and frequency in the Bílé Karpaty PLA: Known from only one historical record from 1944, not re-collected in the course of the recent survey. **General distribution:** Eurosiberian. **Host plants:** Probably Poaceae, perhaps also dwarf shrubs (*Calluna vulgaris*, *Thymus* spp.). **Red List status:** –.

Comments. *Planaphrodes trifasciata* is a species with an epigeic, lifestyle. It may have been under-recorded in the Bílé Karpaty PLA as the main collecting method in this study was sweeping which is, generally, not very effective to sample *Planaphrodes* spp. *P. trifasciata*, however, prefers more or less open, sunny, sparsely vegetated sites (e.g. xerothermic grasslands, heaths, relict pine woods) and may have declined in the area in recent years because of a habitat loss. In other areas of the Czech Republic, it occurs e.g. in dry grasslands and sands of the Pannonian part of Moravia and heaths and pine woods of northern Bohemia (DLABOLA 1954, MALENOVSKÝ 2006, MALENOVSKÝ *et al.* 2011).

***Platymetopius major* (Kirschbaum, 1868) (NT)**

Published records. LANG (1945a): Suchá Loz, Studený vrch hill (57). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 12.viii.2008, 1 ♂ 2 ♀♀, KD & KF. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Rare and local: recently recorded only from two sites in the south-western part of the area; in species-rich meadows with scattered solitary trees and shrubs and small woods. **General distribution:** European. **Host plants:** Low herbs (e.g. *Helianthemum nummularium* – nymphs), deciduous trees (mainly *Betula pendula*, *Quercus* spp. – adults). **Red List status:** Near-threatened.

Comments. *Platymetopius major* is a widely distributed species in the Czech Republic, although quite uncommon; it locally occurs in warm areas being confined to spatially diverse habitats (mostly dry grassland with scattered trees and shrubs; DLABOLA 1954, MALENOVSKÝ *et al.* 2011).

***Platymetopius undatus* (De Geer, 1773)**

(VU)

= *Platymetopius henribauti* Dlabola, 1961

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79) [as *P. henribauti*].

Additional material examined. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 12.viii.2008, 1 ♀, KD & KF.

Distribution and frequency in the Bílé Karpaty PLA: Rare and local, restricted to only one site in the south-western part of the area; in dry patches of species-rich meadows on sunny slopes. **General distribution:** Europe, Caucasus. **Host plants:** Biology poorly known: perhaps on low herbs (e.g. *Helianthemum nummularium*), adults ascending also onto shrubs. **Red List status:** Vulnerable.

Comments. The specimens from the Bílé Karpaty PLA morphologically correspond to *P. henribauti* described from the Czech Republic by DLABOLA (1961). The status of this taxon is, however, unclear and some authors treat the name as a synonym of *P. undatus* (NICKEL & REMANE 2002, NICKEL 2003) which is provisionally followed here. *Platymetopius undatus* sensu lato is currently a rare species in the Czech Republic that may have declined in many sites in recent decades, similarly to Germany (NICKEL 2003). It is confined to well-preserved and usually extensive dry grassland areas. Historical records were summarized by DLABOLA (1954), recent ones are e.g. from the Pavlovské vrch Hills in southern Moravia.

***Populicerus albicans* (Kirschbaum, 1868)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 4 ♂♂; 28.vii.2000, 1 ♂ 1 ♀; all IM; 22.vi.2001, 2 ♂♂, IM & PK; 20.ix.2001, 2 ♀♀, IM. Radějov, Lučina (76), 14.vii.1998, 1 ♀, IM. Hrubá Vrbka, football ground (82), 28.vii.2001, 1 ♀; 20.ix.2001, 1 ♀; both IM. Velká nad Veličkou, village (87), 19.vi.2000, 1 ♀, PK.

Distribution and frequency in the Bílé Karpaty PLA: Restricted to the relatively warmer, south-western part of the area; at forest margins near water, as well as in ruderal sites. **General distribution:** Western Palaearctic. **Host plant:** *Populus alba*. **Red List status:** –.

***Populicerus confusus* (Flor, 1861)**

Published records. LANG (1945a): Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99); Suchá Loz, Studený vrch hill (57). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Poteč, Ploščiny NR (12), 4.vii.1999, 2 ♀♀, IM. Valašské Klobouky, Bílé potoky NR (13), 9.ix.1999, 2 ♂♂; 11.vii.2006, 1 ♀; all IM. Nedašov, Jalovcová stráž NR (17), 12.vii.2006, 1 ♂ 1 ♀, IM. Nedašov, Kaňoury NM (18), 12.vii.2006, 1 ♀, IM; 16.viii.2006, 1 ♂ 3 ♀♀, PK. Bylnice, railway

Leafhoppers and planthoppers (Hemiptera: Auchenorrhyncha)

station environs (27), 11.ix.1999, 1 ♀, IM. Nedašov, Na Salaši (29), 3.vii.1999, 1 ♂, IM. Horní Němčí, village (44), 13.viii.2001, 1 ♂, PK. Korytná, Březí (46), 5.vii.2001, 2 ♀♀, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 2 ♂♂ 1 ♀, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, 2 ♀♀; 30.vi.2001, 3 ♂♂ 5 ♀♀; all IM. Lopeník, U Zvonice NM (63), 25.ix.2004, 1 ♂ 7 ♀♀, IM. Lopeník, Lopenické sedlo (64), 25.ix.2004, 1 ♀, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 7 ♂♂ 1 ♀; 22.ix.2007, 1 ♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 2 ♂♂; 8.viii.2007, 2 ♀♀; all IM. Radějov, Lučina (76), 17.vi.2000, 4 ♂♂ 2 ♀♀, IM; 28.vii.2000, 1 ♂ 1 ♀, IM & PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 1 ♀, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂; 10.ix.2000, 1 ♀; both IM. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, several ♂♂ ♀♀, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 2 ♀♀, IM. Javorník, Machová NR (102), 9.vii.1998, 3 ♂♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; near standing or running water, in wet places in grasslands, along roads and forest margins. **General distribution:** Palaearctic. **Host plants:** *Salix* spp. (*S. cinerea*, *S. aurita*, *S. caprea*, *S. viminalis*, *S. myrsinifolia*, *S. appendiculata*). **Red List status:** –.

Populicerus laminatus (Flor, 1861)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77). **Additional material examined.** Valašské Klobouky, Brumovská street (5), 9.ix.1999, 1 ♀, IM. Nedašov, Jalovcová stráž NR (17), 12.vii.2006, 1 ♀, IM. Nedašov, Pod Cigánem NM (30), 5.x.2004, 1 ♀, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♂, IM & PK. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♂, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♂ 1 ♀, IM. Radějov, Žerotín NM (73), 11.vii.1998, 2 ♂♂, IM. Kněždub, Kněždubský háj forest (75), 22.vi.2001, 1 ♀, IM & PK. Javorník, Jazevčí NNR (96), 19.vi.2000, 2 ♂♂ 10 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area; locally common at sunny margins of small woods and scrub scattered in grasslands. **General distribution:** Eurosiberian. **Host plant:** *Populus tremula*. **Red List status:** –.

Populicerus nitidissimus (Herrich-Schäffer, 1835)

Material examined. Bylnice, railway station environs (27), 11.ix.1999, 1 ♀, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♂, IM. Radějov, Lučina (76), 14.vii.1998, 1 ♀, IM. Hrubá Vrbka, football ground (82), 19.vi.2000, 2 ♂♂; 28.vii.2001, 2 ♂♂ 1 ♀; 20.ix.2001, 4 ♀♀; all IM & PK. Velká nad Veličkou, village (87), 19.vi.2000, 2 ♀♀, PK; 9.ix.2000, 2 ♂♂ 3 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread but quite local; near standing and running water, on windbreaks, as well as on the bottom of an abandoned quarry. **General distribution:** Western Palaearctic. **Host plants:** *Populus nigra* and hybrids. **Red List status:** –.

Populicerus populi (Linnaeus, 1761)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77). **Additional material examined.** Lipová, towards Haluzice (4), 21.viii.1984, 1 ♀, PL. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 1 ♂ 2 ♀♀, IM. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 1 ♂, IM. Nedašov, Jalovcová stráž NR (17), 12.vii.2006, 1 ♂, IM. Korytná, Březí (46), 5.vii.2001, 1 ♂, IM. Lopeník,

U Zvonice NM (63), 25.ix.2004, 1 ♀, IM. Starý Hrozenkov, Skalka quarry (67), 8.viii.2007, 1 ♀; 22.ix.2007, 1 ♀; both IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 4 ♀♀, IM. Radějov, Žerotín NM (73), 11.vii.1998, 2 ♂♂ 1 ♀, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂ 3 ♀♀; 28.vii.2000, 1 ♂ 1 ♀; all IM. Hrubá Vrbka, football ground (82), 20.ix.2001, 1 ♂, IM. Radějov, Veselka hill (85), 11.vii.1998, 1 ♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 1 ♂ 4 ♀♀, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 11 ♂♂ 8 ♀♀; 10.ix.2000, 1 ♀; all IM. Nová Lhota, Fojtické Mlýny (98), 7.vii.1980, 1 ♂, PL. Javorník, Machová NR (102), 9.vii.1998, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area, e.g. at margins of small woods scattered in grasslands. **General distribution:** Palaearctic. **Host plant:** *Populus tremula*. **Red List status:** –.

Psammotettix alienus (Dahlbom, 1850)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79). KMENT & MALENOVSKÝ (2008): Strání, Záhumenice NM (104).

Additional material examined. Valašské Klobouky, Brumovská street (5), 13.ix.1999, 2 ♂♂ 1 ♀, LT, IM. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 1 ♂, IM. Valašské Klobouky, Brumovka brook valley (9), 9.ix.1999, 2 ♂♂ 1 ♀, IM. Poteč, Ploščiny NR (12), 24.viii.2002, 3 ♂♂ 1 ♀; 17.viii.2006, 1 ♀; all PK. Valašské Klobouky, Bílé potoky NR (13), 14.viii.2006, 5 ♂♂ 4 ♀♀, PK. Brumov, Uhlíčky (14), 30.vi.2004, 9 ♂♂ 9 ♀♀; 1.ix.2004, 18 ♂♂ 18 ♀♀; 5.x.2004, 6 ♂♂ 5 ♀♀; all IM; 28.vii.2005, 4 ♂♂ 1 ♀, PK. Nedašov, Jalovcová stráž NR (17), 10.ix.1999, 1 ♂; 1.ix.2004, 4 ♀♀; 5.x.2004, 2 ♂♂ 2 ♀♀; 28.vii.2005, 2 ♂♂; 6.ix.2005, 2 ♂♂ 7 ♀♀; all IM; 16.viii.2006, 19 ♂♂ 11 ♀♀, PK. Nedašov, Kaňoury NM (18), 16.viii.2006, 5 ♂♂ 5 ♀♀, PK. Brumov, Kloboucká street (24), 2.ix.2004, 4 ♂♂ 5 ♀♀; 5.x.2004, 5 ♂♂ 7 ♀♀; 28.v.2005, 1 ♂ 1 larva; all IM; 28.vii.2005, 1 ♂ 6 ♀♀; 4.ix.2005, 1 ♂ 2 ♀♀ 1 larva; all PK. Bylnice, Bylničky (26), 24.vi.1982, 1 ♀, PL. Bylnice, railway station environs (27), 11.ix.1999, 3 ♂♂ 1 ♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Plánava hill (28), 12.ix.1999, 1 ♂ 1 ♀, IM. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 1 ♂ 1 ♀; 5.x.2004, 1 ♂; 28.vii.2005, 2 ♂♂ 1 ♀; all IM. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 1 ♂, IM. Hluk, Babí hora NM (36), 24.viii.2002, 3 ♂♂ 1 ♀, IM. Blatnička, Milejovské louky meadows (39), 24.v.2009, 2 ♀♀; 11.vii.2009, 1 ♂; 16.viii.2009, 3 ♀♀; all PB. Boršice u Blatnice, Boršický potok brook valley (41), 16.viii.1984, 1 ♂ 1 ♀, PL. Korytná, Březí (46), 5.vii.2001, 1 ♀, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 3 ♂♂ 4 ♀♀, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, 1 ♂; 30.vi.2001, 3 ♂♂ 3 ♀♀; all IM; 13.viii.2001, 5 ♂♂ 4 ♀♀, PK; 21.ix.2001, 2 ♀♀, PK; 21.vii.2002, 7 ♂♂ 8 ♀♀, IM; 10.ix.2002, 15 ♂♂ 2 ♀♀, IM. Horní Němčí, Vinohrádky (49), 30.vi.2001, 5 ♂♂ 11 ♀♀, IM; 13.viii.2001, 12 ♂♂ 9 ♀♀ 2 larvae, PK; 21.ix.2001, 2 ♂♂ 3 ♀♀ 1 larva, PK; 20.vii.2002, 29 ♂♂, IM; 10.ix.2002, 13 ♂♂, IM. Bánov, Skalky hill (52), 21.viii.1984, 1 ♀, PL. Komňa, Lom Rasová NM (54), 5.vii.2001, 1 ♀, IM. Korytná, Lubná pond environs (56), 5.vii.2001, 1 ♀, IM. Březová, Kalábová NM (58), 4.vii.2001, 1 ♂ 1 ♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♀; 10.ix.1998, 1 ♂ 3 ♀♀; all IM. Strání, Obecnice hill (60), 24.v.2001, 3 ♀♀, IM; 2.vii.2001, 4 ♂♂ 9 ♀♀, IM & PK; 9.viii.2001, 9 ♂♂ 12 ♀♀, PK; 21.ix.2001, 14 ♂♂ 12 ♀♀, IM; 20.vii.2002, 23 ♂♂ 53 ♀♀, IM; 12.ix.2002, 6 ♂♂ 6 ♀♀, IM. Lopeník, U Zvonice NM (63), 18.viii.2004, 2 ♀♀, PK; 25.ix.2004, 3 ♂♂ 3 ♀♀, IM; 24.vii.2005, 2 ♀♀, IM. Lopeník, Lopenické sedlo (64), 25.ix.2004, 2 ♂♂ 4 ♀♀; 24.vii.2005, 5 ♂♂ 3 ♀♀; all IM. Lopeník, Mikulčín vrch hill (65), 25.ix.2004, 1 ♂ 1 ♀; 24.vii.2005, 1 ♂ 1 ♀; all IM. Starý Hrozenkov, Skalka quarry (67), 22.ix.2007, 1 ♂ 3 ♀♀, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 4 ♂♂ 10 ♀♀; 8.viii.2007, 2 ♂♂ 1 ♀; 22.ix.2007, 1 ♂ 2 ♀♀; all IM. Vyškovec, Vyškovecké Bošačky (69), 27.vi.2004, 2 ♂♂ 1 ♀, IM; 25.ix.2004, 5 ♂♂ 13 ♀♀ 1 larva, PK; 24.vii.2005, 2 ♂♂ 2 ♀♀, PK; 3.ix.2005, 1 ♂, PK. Vyškovec, Pod Hřibovňou NM (70), 25.ix.2004, 1 ♀, PK; 21.v.2005, 1 ♀, IM; 8.ix.2005, 11 ♀♀, IM. Radějov, Holý vrch hill (74), 8.ix.1998, 6 ♂♂ 10 ♀♀, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 2 ♀♀; 28.vii.2000, 2 ♀♀; all IM. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 145 ♂♂ 110 ♀♀, IM & PK. Hrubá Vrbka, football ground (82), 20.ix.2001, 2 ♀♀, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♂, IM. Radějov, Kútky NR (86), 8.ix.1998, many ♂♂ ♀♀, IM. Velká nad Veličkou, village (87), 9.ix.2000, 1 ♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 1 ♀; 9.–10.ix.2000, 5 ♀♀, IM. Suchov, Suchovské Mlýny (89), 23.vi.2004, 2 ♀♀, IM; 18.viii.2004, 12 ♂♂ 22

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♀♀, PK; 1.x.2004, 45 ♂♂ 48 ♀♀, IM; 26.v.2005, 1 ♂ 2 ♀♀, IM; 27.vii.2005, 4 ♂♂ 2 ♀♀, IM; 1.ix.2005, 2 ♂♂ 8 ♀♀, IM. Suchov, Trnovský Mlýn (90), 1.x.2004, 11 ♂♂ 6 ♀♀; 27.vii.2005, 3 ♂♂; all IM. Javorník, Nad Vápenkou NM (94), 7.ix.2002, 3 ♂♂ 2 ♀♀, IM. Javorník, loampit W of village (95), 7.ix.1998, 3 ♂♂, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂ 5 ♀♀; 10.ix.2000, 2 ♂♂ 2 ♀♀; all IM. Javorník, Petruchovy Mlýny (97), 23.vi.2004, 5 ♂♂; 2.ix.2004, 24 ♂♂; 1.x.2004, 61 ♂♂; 27.vii.2005, 2 ♂♂; all IM. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 10 ♂♂ 11 ♀♀; 9.ix.1998, 4 ♂♂ 3 ♀♀; all IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 1 ♀, IM. Strání, Záhumenice NM (104), 24.v.2001, 1 ♀, IM; 8.vi.2001, 1 ♂, PL; 2.vii.2001, 6 ♂♂ 11 ♀♀, IM & PK; 9.viii.2001, 1 ♂ 4 ♀♀, PK; 21.ix.2001, 14 ♂♂ 17 ♀♀, IM. Strání, Javorina NNR (106), 4.vii.2001, 1 ♂ 4 ♀♀; 29.x.2011, 6 ♂♂ 5 ♀♀; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in various open grassland habitats throughout the area: meadows, pastures (including intensively used ones), ruderal sites etc. **General distribution:** Holarctic. **Host plants:** Various Poaceae. **Red List status:** –.

Comments. *Psammotettix alienus* is a major vector of the wheat dwarf virus in the Czech Republic causing economic damage to cereal crops (RIPL *et al.* 2008).

Psammotettix cephalotes (Herrich-Schäffer, 1834)

Published records. LANG (1945a): Korytná, Lipiny forest (38); Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99); Suchá Loz, Studený vrch hill (57); Březová, Kalábová NM (58).

Additional material examined. Valašské Klobouky, Dobšená NM (8), 10.ix.1999, 1 ♀, IM. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 1 ♀, MH. Poteč, Ploštiny NR (12), 13.ix.1999, 1 ♀; 1.vi.2002, 1 ♂ 3 ♀♀; all IM. Valašské Klobouky, Bílé potoky NR (13), 16.vi.2006, 7 ♂♂ 2 ♀♀; 11.vii.2006, 1 ♀; all IM. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 1 ♂ 1 ♀; 10.ix.1999, 14 ♂♂ 23 ♀♀; 30.vi.2004, 1 ♂ 2 ♀♀; 1.ix.2004, 4 ♂♂ 7 ♀♀ 1 larva; 5.x.2004, 3 ♂♂ 4 ♀♀; 28.v.2005, 3 ♂♂ 1 ♀ 13 larvae; 28.vii.2005, 3 ♂♂ 1 larva; 6.ix.2005, 23 ♂♂ 38 ♀♀; 17.vi.2006, 7 ♂♂ 5 ♀♀; all IM; 25.vi.2002, 1 ♂, PK. Bylnice, Bylničky (26), 24.vi.1982, 1 ♂ 1 ♀, PL. Nedašov, Pod Cigánem NM (30), 30.vi.2004, 5 ♂♂ 1 ♀; 1.ix.2004, 6 ♂♂ 8 ♀♀ 5 larvae; 5.x.2004, 1 ♂ 5 ♀♀; 28.vii.2005, 4 ♂♂ 1 ♀; 6.ix.2005, 17 ♂♂ 16 ♀♀ 1 larva; all IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 2 ♂♂ 1 ♀, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 8 ♂♂ 11 ♀♀, IM & PK; 13.viii.2001, 3 ♀♀, PK; 21.ix.2001, 2 ♀♀, PK; 23.v.2002, 2 ♀♀, IM; 21.vii.2002, 3 ♂♂, IM; 10.ix.2002, 3 ♂♂ 4 ♀♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 1 ♀, IM. Strání, Obecnice hill (60), 2.vii.2001, 1 ♀, IM & PK. Lopeník, U Zvonice NM (63), 27.vi.2004, 1 ♀, IM; 18.viii.2004, 1 ♀, PK; 25.ix.2004, 5 ♂♂ 5 ♀♀, IM; 24.vii.2005, 1 ♂, IM; 3.ix.2005, 1 ♂ 1 ♀ 1 larva, PK. Vyskovce, Vyskovcecké Bošačky (69), 27.vi.2004, 16 ♂♂ 18 ♀♀, IM; 19.viii.2004, 20 ♂♂ 11 ♀♀ 5 larvae, PK; 25.ix.2004, 9 ♂♂ 14 ♀♀, PK; 21.v.2005, 1 larva, IM; 24.vii.2005, 1 ♂, PK; 3.ix.2005, 32 ♂♂ 43 ♀♀ 12 larvae, PK. Vyskovce, Pod Hribovňou NM (70), 28.vi.2004, 1 ♂, IM; 24.vii.2005, 4 ♂♂ 3 ♀♀, PK. Kněždub, Čertoryje NNR (77, 79), 19.vi.1980, 7 ♂♂ 1 ♀, PL. Kněždub, Čertoryje NNR, Járkovec brook valley (77), 2.vi.2008, 1 ♀, IM; 12.viii.2008, 1 ♀, IM; 10.ix.2008, 1 ♀, IM. Radějov, Kútky NR (86), 8.ix.1998, 1 ♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 3 ♂♂ 2 ♀♀, IM. Suchov, Suchovské Mlýny (89), 23.vi.2004, 1 ♀, IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 1 ♂ 2 ♀♀, IM; 16.viii.2004, 1 ♂ 1 ♀, PK; 1.x.2004, 2 ♀♀, IM; 1.ix.2005, 9 ♂♂ 11 ♀♀, IM. Javorník, SW slopes of Háj hill (93), 19.vi.1980, 1 ♀, PL. Javorník, Jazevčí NNR (96), 10.ix.2000, 1 ♂, IM. Javorník, Petruchovy Mlýny (97), 2.ix.2004, 1 ♂, IM. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 1 ♂, IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 1 ♂, IM. Javorník, Výzkum hill (103), 10.vi.1982, 3 ♀♀, PL. Strání, Záhumenice NM (104), 2.vii.2001, 3 ♀♀, PK; 21.ix.2001, 1 ♂ 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in meadows, pastures, and fragments of dry grasslands in sunny places. **General distribution:** European. **Host plant:** *Briza media*. **Red List status:** –.

***Psammotettix confinis* (Dahlbom, 1850)**

Material examined. Valašské Klobouky, Dobšená NM (8), 10.ix.1999, 1 ♀, IM. Poteč, Ploštiny NR (12), 13.ix.1999, 1 ♂, IM. Brumov, Uhlíčky (14), 30.vi.2004, 1 ♂ 2 ♀♀; 1.ix.2004, 4 ♂♂ 3 ♀♀; all IM; 4.ix.2005, 3 ♂♂ 8 ♀♀, PK. Nedašov, Jalovcová stráň NR (17), 6.ix.2005, 1 ♂ 1 ♀, IM. Rokytnice, Bukovina hill (23), 21.viii.1984, 1 ♀, PL. Brumov, Kloboucká street (24), 2.ix.2004, 1 ♂ 1 ♀, IM. Bylnice, Bylničky (26), 24.vi.1982, 1 ♀, PL. Bylnice, railway station environs (27), 11.ix.1999, 2 ♀♀, IM. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 2 ♀♀; 6.ix.2005, 1 ♂; all IM. Korytná, Březí (46), 5.vii.2001, 3 ♂♂ 10 ♀♀, IM. Horní Němčí, Vinohrádky (49), 30.vi.2001, 12 ♂♂ 4 ♀♀, IM; 13.viii.2001, 6 ♂♂ 5 ♀♀, PK; 21.ix.2001, 2 ♂♂, PK; 20.vii.2002, 5 ♂♂, IM; 10.ix.2002, 7 ♂♂, IM. Strání, Obecnice hill (60), 2.vii.2001, 2 ♂♂ 4 ♀♀, IM & PK; 9.viii.2001, 2 ♂♂ 4 ♀♀, PK; 21.ix.2001, 8 ♂♂ 7 ♀♀, IM; 23.v.2002, 1 ♂, IM; 20.vii.2002, 4 ♂♂, IM; 12.ix.2002, 3 ♂♂, IM. Strání, Důbrava hill (62), 7.vii.1980, 2 ♂♂ 1 ♀, PL. Lopeník, Lopenické sedlo (64), 27.vi.2004, 1 ♂ 5 ♀♀, IM; 25.ix.2004, 5 ♂♂ 3 ♀♀, IM; 24.vii.2005, 1 ♂, IM; 3.ix.2005, 2 ♂♂, PK. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 3 ♂♂ 3 ♀♀; 8.viii.2007, 9 ♂♂ 4 ♀♀; 22.ix.2007, 2 ♂♂ 6 ♀♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 4 ♂♂ 3 ♀♀; 8.viii.2007, 2 ♂♂ 4 ♀♀; 22.ix.2007, 2 ♂♂ 2 ♀♀; all IM. Vyškovec, Vyškovecké Bošačky (69), 27.vi.2004, 9 ♂♂ 7 ♀♀, IM; 19.viii.2004, 12 ♂♂ 6 ♀♀, PK; 25.ix.2004, 12 ♂♂ 18 ♀♀, PK; 21.v.2005, 1 ♀, IM; 24.vii.2005, 2 ♂♂ 2 ♀♀, PK; 3.ix.2005, 20 ♂♂ 17 ♀♀, PK. Vyškovec, Pod Hřibovňou NM (70), 25.ix.2004, 1 ♂ 1 ♀, PK; 21.v.2005, 1 ♀, IM. Kněždub, Čertoryje NNR, Járkovec brook valley (77), 8.ix.2000, 1 ♂ 1 ♀, IM. Malá Vrbka, Výzkum hill (80), 22.vi.2001, 1 ♂, IM & PK. Radějov, Veselka hill (85), 11.vii.1998, 12 ♂♂ 6 ♀♀, IM. Radějov, Kútky NR (86), 2.vi.1979, 1 ♂, PL. Suchov, Suchovské Mlýny (89), 23.vi.2004, 1 ♂, IM; 18.viii.2004, 2 ♂♂, PK; 1.x.2004, 1 ♂, IM; 1.ix.2005, 4 ♂♂ 7 ♀♀, IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 2 ♂♂ 3 ♀♀, IM; 16.viii.2004, 19 ♂♂ 15 ♀♀, PK; 1.x.2004, 13 ♂♂ 13 ♀♀, IM; 26.v.2005, 1 ♂, IM; 27.vii.2005, 6 ♂♂ 1 ♀ 1 larva, IM; 1.ix.2005, 9 ♂♂ 9 ♀♀, IM. Javorník, loampit W of village (95), 24.v.2002, 1 ♂ 1 ♀, IM. Javorník, Petruchovy Mlýny (97), 23.vi.2004, 21 ♂♂; 2.ix.2004, 80 ♂♂; 1.x.2004, 24 ♂♂; 26.v.2005, 1 ♂; 27.vii.2005, 2 ♂♂; 1.ix.2005, 19 ♂♂; all IM. Javorník, Výzkum hill (103), 1 ♂, PL. Strání, Záhumenice NM (104), 2.vii.2001, 8 ♂♂, IM; 9.viii.2001, 1 ♂, PK; 21.ix.2001, 5 ♂♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; largely confined to disturbed short swards in pastures and ruderal sites. **General distribution:** Holarctic. **Host plants:** Poaceae (*Poa*, *Agrostis*, *Lolium*, *Festuca*). **Red List status:** –.

***Psammotettix helvolus* (Kirschbaum, 1868)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Poteč, Ploštiny NR (12), 13.ix.1999, 1 ♂ 1 ♀; 1.vi.2002, 2 ♂♂ 1 ♀; all IM. Brumov, Uhlíčky (14), 30.vi.2004, 14 ♂♂ 1 ♀, IM; 28.vii.2005, 2 ♂♂, PK. Nedašov, Jalovcová stráň NR (17), 1.ix.2004, 1 ♀; 6.ix.2005, 2 ♂♂ 3 ♀♀; all IM. Brumov, Kloboucká street (24), 28.vii.2005, 2 ♂♂ 3 ♀♀, PK. Bylnice, Na Stráži (25), 16.vi.2006, 1 ♂ 1 ♀, IM. Bylnice, Bylničky (26), 24.vi.1982, 1 ♀, PL. Nedašov, Pod Cigánem NM (30), 28.vii.2005, 2 ♂♂, IM. Blatnička, Milejovské louky meadows (39), 24.v.2009, 6 ♀♀; 11.vii.2009, 5 ♂♂ 3 ♀♀; all PB. Horní Němčí, Hornoněmčanský háj forest (45), 7.vii.1985, 1 ♂ 2 ♀♀, PL. Horní Němčí, Drahy NR (48), 13.viii.2001, 2 ♂♂; 23.v.2002, 1 ♀; both PK; 21.vii.2002, 2 ♂♂ 1 ♀♀, IM; 10.ix.2002, 3 ♂♂, IM. Horní Němčí, Vinohrádky (49), 20.vii.2002, 1 ♂, IM. Komňa, Nový Dvůr (53), 21.viii.1984, 1 ♂ 1 ♀, PL. Komňa, Lom Rasová NM (54), 5.vii.2001, 3 ♀♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 2 ♂♂, IM. Strání, Obecnice hill (60), 24.v.2001, 67 ♂♂ 67 ♀♀, IM; 2.vii.2001, 1 ♂ 2 ♀♀, IM & PK; 9.viii.2001, 9 ♂♂ 15 ♀♀, PK; 21.ix.2001, 54 ♂♂ 48 ♀♀, IM; 23.v.2002, 52 ♂♂ 57 ♀♀, IM; 20.vii.2002, 68 ♂♂ 96 ♀♀, IM; 12.ix.2002, 94 ♂♂, IM. Lopeník, U Zvonice NM (63), 3.ix.2005, 1 ♀, PK. Lopeník, Lopenické sedlo (64), 25.ix.2004, 1 ♀, IM; 3.ix.2005, 1 ♂, PK. Vyškovec, Vyškovecké Bošačky (69), 19.viii.2004, 3 ♂♂ 4 ♀♀; 24.vii.2005, 3 ♂♂ 1 ♀; all PK. Vyškovec, Pod Hřibovňou NM (70), 8.ix.2005, 1 ♂ 1 ♀, IM. Vyškovec, Ve Vlčí NR (71), 22.v.2005, 1 ♀, IM. Radějov, Lučina (76), 13.v.1998, several ♂♂ ♀♀, IM. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 7 ♂♂ 4 ♀♀, IM & PK. Radějov, Kútky NR (86), 2.vi.1979, 6 ♂♂ 2 ♀♀, PL; 11.vii.1998, 1 ♂ 1 ♀, IM; 8.ix.1998, 3 ♂♂ 3 ♀♀, IM. Suchov,

Leafhoppers and planthoppers (Hemiptera: Auchenorrhyncha)

Suchovské Mlýny (89), 23.vi.2004, 1 ♂ 1 ♀, IM; 16.viii.2004, 9 ♂♂ 12 ♀♀, PK; 1.x.2004, 130 ♂♂ 174 ♀♀, IM; 26.v.2005, 28 ♂♂ 26 ♀♀, IM; 27.vii.2005, 53 ♂♂ 36 ♀♀, IM; 1.ix.2005, 19 ♂♂ 13 ♀♀, IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 14 ♂♂ 5 ♀♀, IM; 16.viii.2004, 185 ♂♂, PK; 1.x.2004, 192 ♂♂, IM; 26.v.2005, 79 ♂♂, IM; 27.vii.2005, 177 ♂♂, IM; 1.ix.2005, 132 ♂♂, IM. Javorník, Jazevčí NNR (96), 10.ix.2000, 1 ♀, IM. Javorník, Petruchovy Mlýny (97), 23.vi.2004, 30 ♂♂; 2.ix.2004, 163 ♂♂; 1.x.2004, 250 ♂♂; 26.v.2005, 149 ♂♂; 27.vii.2005, 147 ♂♂; 1.ix.2005, 82 ♂♂; all IM. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 7 ♂♂ 11 ♀♀, IM. Javorník, Machová NR (102), 14.v.1998, 1 ♂, IM. Strání, Záhumenice NM (104), 9.viii.2001, 1 ♂, PK; 21.ix.2001, 1 ♂ 1 ♀, IM. Strání, Javorina NNR (106), 12.vii.1998, many ♂♂ ♀♀; 4.vii.2001, 28 ♂♂ 41 ♀♀; 29.x.2011, 2 ♂♂ 3 ♀♀; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and locally abundant in sunny, fine-leaved grassland sites: pastures on slopes, fragments of xerothermic grasslands but also submontane meadows including the one on the top of Mt Velká Javořina (up to 970 m). **General distribution:** Eurosiberian. **Host plants:** Poaceae (*Festuca*, *Avenella flexuosa*). **Red List status:** –.

Psammotettix nodosus (Ribaut, 1925)

Material examined. Bylnice, Bylničky (26), 24.vi.1982, 2 ♂♂, PL. Strání, Důbrava hill (62), 7.vii.1980, 1 ♂, PL.

Distribution and frequency in the Bílé Karpaty PLA: Known only from two records from 1980s; perhaps restricted to forest margins and forest glades on acidic soils in the north-eastern and central parts of the area. **General distribution:** European. **Host plants:** Poaceae (often *Festuca ovina*). **Red List status:** –.

Psammotettix poecilus (Flor, 1861)

(EN)

Published records. MALENOVSKÝ & LAUTERER (2010): Starý Hrozenkov, Skalka quarry (67).

Additional material examined. Komňa, Lom Rasová NM (54), 5.vii.2001, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Sporadic and local: restricted to patches of spare grassland on the bottoms of abandoned quarries in the central part of the area. **General distribution:** Eurosiberian. **Host plant:** *Calamagrostis epigejos*. **Red List status:** Endangered.

Comments. In the Czech Republic, *P. poecilus* is a widespread but local species occurring mainly on sands and in mining areas (quarries, sandpits, coal dumps, occasionally also railway tracks etc.), largely in south-eastern Moravia and central and southern Bohemia (MALENOVSKÝ & LAUTERER 2010 and additional unpublished records).

Rhopalopyx adumbrata (C. Sahlberg, 1842)

Published records. LANG (1945a): Suchá Loz, Studený vrch hill (57) [cited as *Thamnotettix Preysleri*, misidentified].

Additional material examined. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 2 ♂♂ 1 ♀, IM. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 4 ♂♂ 4 ♀♀, IM. Brumov, Kloboucká street (24), 28.vii.2005, 1 ♂, PK. Lopeník, U Zvonice NM (63), 24.vii.2005, 5 ♂♂ 1 ♀, IM; 3.ix.2005, 1 ♂, PK. Lopeník, Lopenické sedlo (64), 24.vii.2005, 3 ♂♂ 2 ♀♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 1 ♂

5 ♀♀, IM; 18.viii.2000, 1 ♀, PK. Suchov, Trnovský Mlýn (90), 27.vii.2005, ?2 ♀♀, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♀; 10.ix.2000, 1 ♀; both IM. Javorník, Petruchovy Mlýny (97), 17.vii.2002, 1 ♂ 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area but uncommon; in meadows and pastures. **General distribution:** Eurosiberian. **Host plants:** *Festuca rubra*, *F. ovina*. **Red List status:** –.

Rhopalopyx preysleri (Herrich-Schäffer, 1838)

Material examined. Nedašov, Jalovcová stráž NR (17), 5.x.2004, 1 ♂, IM. Brumov, Kloboucká street (24), 28.vii.2005, 4 ♂♂ 3 ♀♀; 4.ix.2005, 1 ♂, PK; 4.vii.–6.viii.2005, 2 ♂♂, PT, KR. Hluk, Babí hora NM (36), 24.viii.2002, 1 ♂, IM. Strání, Záhumenice NM (104), 20.vii.2002, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Perhaps widespread but quite rare; in dry pastures and fragments of xerothermic grassland. **General distribution:** Eurosiberian. **Host plant:** *Poa angustifolia*. **Red List status:** –.

Rhopalopyx vitripennis (Flor, 1861)

Material examined. Vyškovec, Vyškovecké Bošačky (69), 25.ix.2004, 1 ♂, PK. Malá Vrbka, Výzkum hill (80), 4.x.2002, 1 ♂, PK.

Distribution and frequency in the Bílé Karpaty PLA: Sporadic: known only from two isolated findings on sunny grassland sites in the south-western and central parts of the area. **General distribution:** Palaearctic. **Host plants:** Fine-leaved *Festuca* spp. **Red List status:** –.

Rhytidodus decimusquartus (Schrank, 1776)

Material examined. Velká nad Veličkou, village (87), 19.vi.2000, 1 ♂, PK; 9.ix.2000, 3 ♂♂ 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Collected at only one site at the south-western foothills of the area: along a road on the periphery of a village. **General distribution:** Western Palaearctic. **Host plants:** *Populus nigra* and hybrids. **Red List status:** –.

Rhytidodus wagneri Dlabola, 1965

(Fig. 13)

Material examined. Horní Němčí, village (44), 10.ix.1998, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Recorded at one site at the south-western foothills of the area: woody vegetation around a football ground in a village. **General distribution:** Southern parts of central Europe, south-eastern Europe, Kazakhstan, Turkmenistan, Mongolia (NAST 1972). **Host plant:** *Populus nigra*. **Red List status:** –.

Comments. *Rhytidodus wagneri* was described from Ukraine and southern Slovakia (DLABOLA 1965b). In Europe, it also occurs in Austria and Italy (HOLZINGER 2009, HOCH

2012). In the Czech Republic, it is known from Moravia (DLABOLA 1977) where it seems to be restricted to the southern part (there are a few records from the city of Brno: Žlutý kopec hill and Slatina, and the village of Mutěnice in south-eastern Moravia; unpublished data from the collection of the Moravian Museum, Brno).

***Ribautiana alces* (Ribaut, 1931)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Suchov, Trnovský Mlýn (90), 1.x.2004, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Sporadic; documented only from two sites in the south-western part of the area; on solitary oaks in meadows and pastures. **General distribution:** European. **Host plants:** *Quercus robur*, *Qu. petraea*. **Red List status:** –.

***Ribautiana tenerrima* (Herrich-Schäffer, 1834)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 3 ♂♂, IM. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 1 ♂ 1 ♀, IM. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 1 ♀, IM. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 1 ♂, IM. Bylnice, Bylničky (26), 24.vi.1982, 2 ♂♂, PL. Bylnice, railway station environs (27), 1.vii.1999, 1 ♂, MH & PK; 11.ix.1999, 3 ♂♂ 2 ♀♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 1 ♂, IM. Nedašov, Na Salaši (29), 10.ix.1999, 1 ♀, IM. Hluk, Babí hora NM (36), 24.viii.2002, 1 ♂, IM. Korytná, Březí (46), 5.vii.2001, 1 ♂ 4 ♀♀, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 1 ♂, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, 1 ♂; 30.vi.2001, 1 ♀; both IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♂ 1 ♀, IM & PK. Korytná, Lubná pond environs (56), 5.vii.2001, 5 ♂♂, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♀; 8.viii.2007, 1 ♂; 22.ix.2007, 3 ♂♂ 3 ♀♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 2 ♀♀; 8.viii.2007, 1 ♂; 22.ix.2007, 8 ♂♂ 7 ♀♀; all IM. Kněždub, Kněždubský háj forest (75), 22.vi.2001, 3 ♂♂ 3 ♀♀, IM & PK; 20.ix.2001, 2 ♂♂ 1 ♀, IM. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 1 ♂, MT, JM & PC. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 1 ♂, IM & PK. Hrubá Vrbka, football ground (82), 20.ix.2001, 4 ♂♂ 5 ♀♀, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♂, IM. Velká nad Veličkou, village (87), 9.ix.2000, 1 ♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 6 ♂♂ 5 ♀♀, IM. Javorník, Jazevčí NNR (96), 10.ix.2000, 1 ♂ 1 ♀, IM. Strání, Javorina NNR (106), 4.vii.2001, 1 ♂ 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common at forest margins throughout the area. **General distribution:** European. **Host plants:** Mainly on *Rubus* spp. (*R. fruticosus* agg., *R. caesius*, *R. idaeus*). **Red List status:** –.

***Ribautiana ulmi* (Linnaeus, 1758)**

Material examined. Svatý Štěpán, Nadřičí (32), 12.ix.1999, 1 ♀, IM. Horní Němčí, Hornoněmčanský háj forest (45), 7.vii.1980, 1 ♂, PL. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 2 ♂♂ 3 ♀♀, IM. Kněždub, Kněždubský háj forest (75), 28.vii.2000, 2 ♀♀, IM; 22.vi.2001, 4 ♂♂ 36 ♀♀, IM & PK. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♂, IM. Strání, Záhumenice NM (104), 15.vi.2010, 2 ♂♂, MT, JM & PC.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread but somewhat local; along forest margins, particularly in brook valleys. **General**

distribution: European. **Host plants:** *Ulmus* spp. (*U. glabra*, *U. laevis*, *U. minor*). **Red List status:** –.

***Sagatus punctifrons* (Fallén, 1826)**

(VU)

Material examined. Bylnice, railway station environs (27), 11.ix.1999, 2 ♂♂, IM. Sidonie, Vlárský průmysk pass (33), 12.ix.1999, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Known only from the banks of the Vlára river in the north-eastern part of the area. **General distribution:** Eurosiberian. **Host plants:** *Salix* spp. (*S. purpurea*, *S. triandra*, *S. viminalis*, *S. elaeagnos*, *S. repens*). **Red List status:** Vulnerable.

Comments. *Sagatus punctifrons* is currently a quite rare species in the Czech Republic; published records (from north-eastern Bohemia and southern Moravia) largely date back to 1940s and 1950s (DLABOLA 1954, LAUTERER 1995b).

***Sorhoanus assimilis* (Fallén, 1806)**

(NT)

Published records. LANG (1945a): Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99); Suchá Loz, Studený vrch hill (57). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 1 ♂ 31 ♀♀, IM. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 18 ♂♂ 7 ♀♀; 10.ix.1999, 23 ♀♀; 1.ix.2004, 1 ♀; 28.vii.2005, 6 ♂♂; 6.ix.2005, 4 ♀♀; 12.vii.2006, 3 ♂♂ 1 ♀; all IM; 16.viii.2006, 2 ♀♀, PK. Březová, Kalábová NM (58), 4.vii.2001, 1 ♂, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 5 ♀♀, IM. Lopeník, U Zvonice NM (63), 18.viii.2004, 2 ♀♀; 3.ix.2005, 1 ♀; all PK. Radějov, Kútky NR (86), 8.ix.1998, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread but common only locally; restricted to calcareous spring fens. **General distribution:** Eurosiberian. **Host plants:** *Carex* spp. (*C. panicea*, *C. nigra*, *C. rostrata*). **Red List status:** Near-threatened.

Comments. *Sorhoanus assimilis* is a quite widespread, even if generally uncommon species in the Czech Republic, known from wetlands in north-eastern and southern Bohemia and south-eastern Moravia (DLABOLA 1954).

***Speudotettix subfuscus* (Fallén, 1806)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Lipová, towards Haluzice (4), 21.viii.1984, 1 ♀, PL. Valašské Klobouky, Brumovská street (5), 19.v.1999, 1 ♂, IM. Valašské Klobouky, Javorůvky NR (7), 22.v.1999, 4 ♂♂ 3 ♀♀, IM. Valašské Klobouky, Dobšená NM (8), 22.v.1999, 1 ♀, IM. Valašské Klobouky, Brumovka brook valley (9), 19.v.1999, 4 ♂♂ 5 ♀♀, IM; 30.vi.1999, 1 ♂ 5 ♀♀, MH. Poteč, Ploščiny NR (12), 4.vii.1999, 1 ♀; 1.vi.2002, 3 ♂♂ 2 ♀♀; all IM. Valašské Klobouky, Bílé potoky NR (13), 30.vi.1999, 1 ♂, PK; 16.vi.2006, 3 ♂♂ 4 ♀♀, IM; 11.vii.2006, 1 ♂ 3 ♀♀, IM. Brumov, Uhlíčky (14), 5.x.2004, 1 ♀, IM. Nedašov, Jalovcová stráž NR (17), 20.v.1999, 1 ♀; 3.vii.1999, 2 ♂♂ 3 ♀♀; 17.vi.2006, 1 ♂ 1 ♀; all IM. Nedašov, Kaňoury NM (18), 17.vi.2006, 2 ♀♀, IM. Bylnice, Bylničky (26), 24.vi.1982, 3 ♂♂ 2 ♀♀, PL. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 21.v.1999, 1 ♀, IM. Nedašov, Pod Cigánem NM (30), 30.vi.2004, 1 ♀;

Leafhoppers and planthoppers (Hemiptera: Auchenorrhyncha)

5.x.2004, 8 larvae; 28.v.2005, 1 ♀ 1 larva; all IM. Horní Němčí, Hornoněmčanský háj forest (45), 7.vii.1985, 2 ♂♂ 1 ♀, PL. Korytná, Březi (46), 5.vii.2001, 1 ♀, IM. Horní Němčí, Drahy NR (48), 15.v.1998, several ♂♂ ♀♀; 30.vi.2001, 1 ♀; 23.v.2002, 3 ♀♀; all IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♀, IM & PK. Březová, Kalábová NM (58), 4.vii.2001, 1 ♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 16.v.1998, several ♂♂ ♀♀; 10.vii.1998, 2 ♂♂ 1 ♀; all IM. Lopeník, U Zvonice NM (63), 24.vii.2005, 1 ♀, IM. Lopeník, Mikulčin vrch hill (65), 24.vii.2005, 1 ♀, IM. Vyškovec, Vyškovecké Bošačky (69), 21.v.2005, 1 ♀, IM. Vyškovec, Ve Vlčí NR (71), 22.v.2005, 2 ♂♂, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂, IM. Kněždub, Čertoryje NNR (77, 79), 19.vi.1980, 6 ♂♂ 10 ♀♀, PL. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 1 ♀, IM & PK. Radějov, Kútky NR (86), 2.vi.1979, 1 ♀, PL. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 14.v.1998, several ♂♂ ♀♀, IM. Javorník, Jazevčí NNR (96), 6.v.2000, 2 ♂♂ 4 ♀♀; 19.vi.2000, 1 ♂ 7 ♀♀; all IM. Nová Lhota, Fojtické Mlýny (98), 7.vii.1980, 2 ♀♀, PL. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 1 ♂ 1 ♀, IM. Nová Lhota, Vápenky, Vápenky NM (100), 13.v.–8.vii.2003, PT, 1 ♀, IT & JT. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 1 ♂, IM. Javorník, Machová NR (102), 14.v.1998, several ♂♂ ♀♀, IM; 9.vii.1998, 1 ♂, IM; 14.vi.2010, 3 ♂♂, MT, JM & PC. Strání, Záhumenice NM (104), 15.vi.2010, 1 ♀, MT, JM & PC.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; in forests and along their margins, as well as in scrub scattered in grasslands. **General distribution:** Palaearctic. **Host plants:** Poaceae and *Carex* spp. (larvae), deciduous trees and shrubs (e.g. *Betula*, *Corylus*, *Alnus*, *Prunus* – adults). **Red List status:** –.

Stenidiocerus poecilus (Herrich-Schäffer, 1835)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Velká nad Veličkou, village (87), 18.viii.2000, 1 ♂ 1 ♀, PK; 9.ix.2000, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Rare: collected in only two sites in the south-western part of the area; at forest margins and along a road near a village.

General distribution: Western Palaearctic. **Host plant:** *Populus nigra*. **Red List status:** –.

Stictocoris picturatus (C. Sahlberg, 1842)

(VU)

Material examined. Vyškovec, Vyškovecké Bošačky (69), 25.ix.2004, 1 ♀; 24.vii.2005, 1 ♂ 1 ♀; 3.ix.2005, 1 ♀ 1 larva; all PK. Radějov, Žerotín NM (73), 11.vii.1998, 2 ♀♀, IM. Hrubá Vrbka, football ground (82), 16.viii.2000, 1 ♀, PK.

Distribution and frequency in the Bílé Karpaty PLA: Rare and local, restricted to the south-western and central parts of the area; in an extensively managed dry meadow, a fragment of xerothermic grassland, and a ruderal site. **General distribution:** Eurosiberian. **Host plants:** Fabaceae (mainly *Ononis spinosa*, *Genista tinctoria*). **Red List status:** Vulnerable.

Comments. *Stictocoris picturatus* is a xerothermophilous species of open grassland habitats, quite widespread in Bohemia and Moravia but generally uncommon (e.g. DLABOLA 1954, MALENOVSKÝ *et al.* 2011).

***Streptanus aemulans* (Kirschbaum, 1858)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 6 ♂♂ 1 ♀, IM. Brumov, Uhličky (14), 30.vi.2004, 2 ♂♂ 1 ♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 3 ♂♂, IM. Korytná, Březí (46), 5.vii.2001, 2 ♀♀, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 1 ♂, IM. Horní Němčí, Vinohrádky (49), 21.ix.2001, 1 ♂, PK; 22.v.–22.vi.2003, 2 ♂♂ 1 ♀, 3 larvae, PT, KR; 22.vi.–24.vii.2003, 2 ♀♀ 1 larva, PT, KR; 24.vii.–22.viii.2003, 1 ♀ 2 larvae, PT, KR; 22.viii.–27.ix.2003, 1 ♂ 1 ♀ 5 larvae, PT, KR. Strání, Obecnice hill (60), 12.ix.2002, 1 ♂, IM. Lopeník, U Zvonice NM (63), 26.vii.–26.viii.2005, 3 ♂♂, PT, KR. Vyškovec, Vyškovecké Bošačky (69), 25.ix.2004, 1 ♂, PK. Malá Vrbka, Výzkum hill (80), 8.ix.2000, 1 ♂, PK; 22.vi.2001, 1 ♂, IM & PK. Radějov, Kútky NR (86), 8.ix.1998, 3 ♂♂, IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 1 ♀, IM; 4.vii.–6.viii.2005, 1 ♀, PT, KR. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂ 3 ♀♀; 10.ix.2000, 1 ♀; all IM. Javorník, Petruchovy Mlýny (97), 23.ix.2001, 1 ♂, IM. Strání, Záhumenice NM (104), 2.vii.2001, 1 ♀ 1 larva, PK; 21.ix.2001, 4 ♂♂ 1 ♀, IM; 12.ix.2002, 3 ♂♂, IM. Strání, Javorina NNR (106), 12.vii.1998, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common in meadows, pastures and ruderal grassland throughout the area. **General distribution:** Holarctic. **Host plants:** Poaceae (e.g. *Holcus lanatus*, *H. mollis*, *Elytrigia repens*). **Red List status:** –.

***Streptanus marginatus* (Kirschbaum, 1858)**

Material examined. Valašské Klobouky, Brumovka brook valley (9), 9.ix.1999, 2 ♂♂, IM. Brumov, Uhličky (14), 4.ix.2005, 1 ♀, PK. Bylnice, Bylničky (26), 24.vi.1982, 1 ♀, PL. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 1 ♀ 1 larva, IM. Vyškovec, Pod Hribovňou NM (70), 24.vii.2005, 1 ♀, PK.

Distribution and frequency in the Bílé Karpaty PLA: Local and quite rare: perhaps restricted to places with acidic soils in the north-eastern and central parts of the area; in meadows and pastures. **General distribution:** Eurosiberian. **Host plants:** Fine-leaved Poaceae (e.g. *Avenella flexuosa*, *Festuca ovina*). **Red List status:** –.

***Streptanus sordidus* (Zetterstedt, 1828)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 9 ♂♂, IM. Poteč, Ploščiny NR (12), 4.vii.1999, 1 ♂, IM; 13.ix.1999, 3 ♂♂ 1 ♀, IM; 1.vi.2002, 8 larvae, IM; 24.viii.2002, 2 ♂♂, PK; 17.viii.2006, 1 ♂, PK. Bylnice, Bylničky (26), 24.vi.1982, 1 ♂ 1 ♀, PL. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 2 ♂♂, IM. Nedašov, Pod Cigánem NM (30), 10.ix.1999, 1 ♂; 5.x.2004, 1 ♀ 1 larva; all IM. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 1 ♂, IM. Komňa, Lom Rasová NM (54), 5.vii.2001, 1 ♀, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♂ 2 ♀♀, IM & PK. Lopeník, Lopenické sedlo (64), 27.vi.2004, 1 larva, IM; 25.ix.2004, 2 ♂♂ 3 larvae, IM; 20.v.–25.vi.2005, 1 ♂, PT, KR. Vyškovec, Pod Hribovňou NM (70), 25.ix.2004, 5 ♂♂ 2 ♀♀ 8 larvae, PK. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♂, IM. Suchov, Trnovský Mlýn (90), 8.ix.–7.x.2005, 1 ♂, PT, KR. Strání, Javorina NNR (106), 4.vii.2001, 1 ♂; 29.x.2011, 2 ♂♂; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area including the highest altitudes; quite common in meadows and pastures. **General distribution:** European. **Host plants:** Poaceae (e.g. *Agrostis stolonifera*, *A. capillaris*). **Red List status:** –.

Thamnotettix confinis Zetterstedt, 1840

Published records. LANG (1945a): Korytná, Lipiny forest (38). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Javorůvky NR (7), 22.v.1999, 2 ♂♂; 2.vii.1999, 1 ♂; all IM. Valašské Klobouky, Dobšená NM (8), 22.v.1999, 1 ♂; 2.vii.1999, 1 ♂; all IM. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 1 ♂, MH. Poteč, Ploščiny NR (12), 4.vii.1999, 1 ♀, IM. Valašské Klobouky, Bílé potoky NR (13), 30.vi.1999, 1 ♀, PK; 16.vi.2006, 6 ♂♂, IM; 11.vii.2006, 1 ♀, IM. Bylnice, Bylničky (26), 24.vi.1982, 2 ♀♀, PL. Horní Němčí, Hornoněmčanský háj forest (45), 7.vii.1985, 2 ♂♂ 1 ♀, PL. Korytná, Březí (46), 5.vii.2001, 1 ♂ 1 ♀, IM. Bánov, Skalky hill (52), 21.viii.1984, 1 ♀, PL. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 1 ♀, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♂ 1 ♀; 28.vii.2000, 1 ♂ 1 ♀; all IM. Kněždub, Čertoryje NNR (77, 79), 19.vi.1980, 6 ♂♂, PL. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂ 5 ♀♀, IM. Nová Lhota, Fojtické Mlýny (98), 7.vii.1980, 2 ♂♂, PL. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 1 ♂, IM. Javorník, Machová NR (102), 14.vi.2010, 1 ♂, MT, JM & PC. Strání, Záhumenice NM (104), 14.vi.2010, 2 ♂♂; 15.vi.2010, 1 ♂; all MT, JM & PC.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; in meadows, particularly near solitary trees and shrubs, and along forest margins. **General distribution:** Holarctic. **Host plants:** Probably Poaceae (larvae) and deciduous trees (e.g. *Quercus* spp. – adults). **Red List status:** –.

Thamnotettix exemptus Melichar, 1896

(VU)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Kněždub, Čertoryje NNR (77, 79), 19.vi.1980, 6 ♂♂ 3 ♀♀, PL; 22.v.2000, 1 ♂, PK. Javorník, Petruchovy Mlýny (97), 9.viii.2001, 1 ♀, PK. Javorník, Machová NR (102), 9.vii.1998, 2 ♂♂, IM; 4.vi.2010, 1 ♂; 14.vi.2010, 1 ♂; both MT, JM & PC.

Distribution and frequency in the Bílé Karpaty PLA: Restricted to the warm, south-western part of the area; on solitary oaks scattered in dry meadows and pastures. **General distribution:** Southern parts of central Europe, southern and south-eastern Europe. **Host plants:** Probably Poaceae (larvae) and *Quercus* spp. (adults). **Red List status:** Vulnerable.

Comments. *Thamnotettix exemptus* is a characteristic species of open xerothermic woodland; in the Czech Republic, its distribution is restricted to southern Moravia and central Bohemia (DLABOLA 1954).

Tremulicerus distinguendus (Kirschbaum, 1868)

Material examined. Kněždub, Kněždubský háj forest (75), 28.vii.2000, 1 ♂, IM. Hrubá Vrbka, football ground (82), 20.ix.2001, 2 ♂♂, IM. Velká nad Veličkou, village (87), 19.vi.2000, 2 ♂♂ 2 ♀♀, PK; 9.ix.2000, 2 ♂♂ 3 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Restricted to the relatively warm south-western part of the area; occurring on its host plant, mostly along roads. **General distribution:** European. **Host plant:** *Populus alba*. **Red List status:** –.

Comments. *Tremulicerus distinguendus* is poorly documented in the Czech Republic, at least in literature; it is probably a thermophilous species present e.g. in the Pannonian part of southern Moravia (MALENOVSKÝ *et al.* 2011).

***Tremulicerus tremulae* (Estlund, 1796)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Valašské Klobouky, Brumovská street (5), 9.ix.1999, 1 ♂, IM. Horní Němčí, Hornoněmčanský háj forest (45), 10.ix.2002, 1 ♂, IM. Lopeník, U Zvonice NM (63), 25.ix.2004, 1 ♀, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 2 ♂♂; 8.viii.2007, 1 ♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 22.ix.2007, 1 ♂ 1 ♀, IM. Radějov, Žerotín NM (73), 11.vii.1998, 1 ♀, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂ 1 ♀, IM. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 1 ♀; 28.x.2011, 1 ♀; both IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, although usually collected in low numbers of specimens; in pioneer stands of woody plants e.g. in abandoned quarries, in small woods scattered in pastures and meadows, along roads and forest margins. **General distribution:** Eurosiberian. **Host plant:** *Populus tremula*. **Red List status:** –.

***Turrutus socialis* (Flor, 1861)**

Published records. LANG (1945a): Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99); Suchá Loz, Studený vrch hill (57). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79). KMENT & MALENOVSKÝ (2008): Kněždub, Čertoryje NNR, Járkovec brook valley (77); Strání, Záhumenice NM (104).

Additional material examined. Brumov, Uhlíčky (14), 5.x.2004, 1 ♂ 1 ♀, IM. Nedašov, Jalovcová stráž NM (17), 3.vii.1999, 1 ♀, IM. Bylnice, Na Stráži (25), 16.vi.2006, 5 ♂♂ 7 ♀♀; 11.vii.2006, 8 ♂♂ 1 ♀; all IM. Hluk, Babí hora NM (36), 24.viii.2002, 4 ♂♂ 5 ♀♀, IM. Blatnička, Milejovské louky meadows (39), 24.v.2009, 2 ♂♂ 2 ♀♀; 11.vii.2009, 1 ♀; 16.viii.2009, 1 ♂ 2 ♀♀; all PB. Suchov, Kazivec brook valley (47), 9.ix.1998, many ♂♂ ♀♀, IM. Horní Němčí, Drahy NR (48), 10.ix.1998, several ♂♂ ♀♀, IM; 30.vi.2001, 120 ♂♂ 154 ♀♀ 20 larvae, IM & PK; 13.viii.2001, 41 ♂♂ 48 ♀♀ 85 larvae, PK; 21.ix.2001, 51 ♂♂ 57 ♀♀ 3 larvae, PK; 23.v.2002, 28 ♂♂ 17 ♀♀ 44 larvae, IM & PK; 21.vii.2002, 99 ♂♂ 78 ♀♀ 157 larvae, IM; 10.ix.2002, 46 ♂♂ 69 ♀♀ 2 larvae, IM; 22.vi.–24.vii.2003, 1 ♀ 2 larvae, PT, KR; 24.vii.–22.viii.2003, 1 ♀ 1 larva, PT, KR; 22.viii.–27.ix.2003, 3 ♂♂, PT, KR. Horní Němčí, Vinohrádky (49), 30.vi.2001, 3 ♂♂ 1 ♀, IM; 20.vii.2002, 2 larvae, IM; 10.ix.2002, 1 ♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, many ♂♂ ♀♀, IM. Strání, Obecnice hill (60), 24.v.2001, 5 ♂♂ 1 ♀ 81 larvae, IM; 2.vii.2001, 4 ♂♂ 9 ♀♀, IM & PK; 9.viii.2001, 29 ♂♂ 19 ♀♀ 18 larvae, PK; 21.ix.2001, 2 ♂♂ 11 ♀♀ 2 larvae, IM; 23.v.2002, 14 ♂♂ 4 ♀♀ 10 larvae, IM; 20.vii.2002, 48 ♂♂ 31 ♀♀, IM; 12.ix.2002, 10 ♂♂ 15 ♀♀ 13 larvae, IM. Lopeník, U Zvonice NM (63), 18.viii.2004, 1 ♀, PK; 25.ix.2004, 1 ♀, IM; 24.vii.2005, 2 ♀♀, IM; 3.ix.2005, 2 ♂♂ 3 ♀♀ 1 larva, PK. Lopeník, Lopenické sedlo (64), 27.vi.2004, 1 ♂ 1 larva, IM; 24.vii.2005, 1 ♂, IM; 3.ix.2005, 3 ♂♂, PK. Výškovec, Výškovecké Bošačky (69), 19.viii.2004, 1 larva; 25.ix.2004, 1 ♂; 3.ix.2005, 2 ♂♂; all PK. Výškovec, Pod Hřibovnou NM (70), 19.viii.2004, 4 ♀♀, PK; 25.ix.2004, 4 ♀♀, PK; 24.vii.2005, 3 ♀♀, PK; 8.ix.2005, 2 larvae, IM. Radějov, Žerotín NM (73), 9.viii.2002, 4 ♂♂ 1 ♀, PK. Radějov, Holý vrch hill (74), 8.ix.1998, 1 ♂ 1 ♀, IM. Kněždub, Čertoryje NNR (77, 79), 19.vi.1980, 1 ♂ 2 ♀♀, PL; 22.v.2000, 1 ♂, PK. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 1 ♀, IM & PK; 8.ix.2000, 35 ♂♂ 41 ♀♀, PK. Hrubá Vrbka, football ground (82), 28.vii.2001, 1 ♂; 20.ix.2001, 3 ♂♂ 5 ♀♀; all IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, many ♂♂ ♀♀, IM; 20.viii.2002, 2 ♂♂ 1 ♀, PK. Radějov, Kútky NR (86), 2.vi.1979, 1 ♂, PL; 11.vii.1998 and 8.ix.1998, many ♂♂ ♀♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 9 ♂♂ 4 ♀♀, IM; 18.viii.2000, 1 ♂ 1 ♀, PK; 9.–10.ix.2000, many ♂♂ ♀♀, IM. Suchov, Suchovské Mlýny (89), 23.vi.2004, 41 ♂♂ 42 ♀♀, IM; 16.viii.2004, 44 ♂♂ 30 ♀♀ 21 larvae, PK; 1.x.2004, 65 ♂♂ 78 ♀♀ 3 larvae, IM; 26.v.2005, 18 ♂♂ 39 larvae, IM; 27.vii.2005, 11 ♂♂ 9 ♀♀, IM; 1.ix.2005, 130 ♂♂ 123 ♀♀ 14 larvae, IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 129 ♂♂ 63 ♀♀ 19 larvae, IM; 16.viii.2004, 76 ♂♂ 25 ♀♀ 18 larvae, PK; 1.x.2004, 25 ♂♂ 99 ♀♀ 1 larva, IM; 26.v.2005, 25 larvae, IM; 27.vii.2005, 14 ♂♂ 38 ♀♀ 9 larvae, IM; 1.ix.2005, 649 ♂♂ 335 ♀♀ 257 larvae, IM. Velká nad Veličkou, towards Javorník (91), 10.vi.1982, 9 ♂♂ 2 ♀♀, PL. Javorník, SW slopes of Háj hill (93), 19.vi.1980, 1 ♂ 1 ♀, PL. Javorník, Nad Vápenkou NM (94), 9.vii.1998, 2 ♀♀, IM. Javorník, Nad Vápenkou NM (94), 7.ix.2002, 10 ♂♂ 11 ♀♀, IM. Javorník, loampit W

of village (95), 7.ix.1998, many ♂♂ ♀♀; 24.v.2002, 2 ♂♂ 1 ♀; all IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 19 ♂♂ 12 ♀♀; 10.ix.2000, 17 ♂♂ 7 ♀♀; all IM. Javorník, Petruchovy Mlýny (97), 23.vi.2004, 21 ♂♂ 8 ♀♀ 7 larvae; 2.ix.2004, 46 ♂♂ 24 ♀♀ 9 larvae; 1.x.2004, 8 ♂♂ 19 ♀♀; 26.v.2005, 21 larvae; 27.vii.2005, 1 ♂ 5 ♀♀ 12 larvae; 1.ix.2005, 13 ♂♂ 18 ♀♀ 1 larva; all IM. Nová Lhota, Fojtické Mlýny (98), 7.vii.1980, 1 ♂ 2 ♀♀, PL. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 2 ♀♀; 9.ix.1998, 1 ♂ 1 ♀; all IM. Nová Lhota, Vápenky, Velička brook valley towards Mt Velká Javořina (101), 12.vii.1998, 1 ♀, IM. Javorník, Výzkum hill (103), 10.vi.1982, 1 ♂ 2 ♀♀, PL. Strání, Záhumenice NM (104), 2.vii.2001, 10 ♂♂ 11 ♀♀, PK; 9.viii.2001, 7 larvae, PK; 21.ix.2001, 56 ♂♂ 35 ♀♀ 9 larvae, IM. Strání, Javorina NNR (106), 4.vii.2001, 1 ♂ 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area, although quite rare and local in its north-easternmost tip; in sunny, dry to mesic meadows, pastures, and ruderal sites. **General distribution:** Eurosiberian. **Host plants:** Poaceae (*Brachypodium pinnatum*, *Bromus erectus*, *Festuca rubra*, *Avenula pubescens*). **Red List status:** –.

Typhlocyba quercus (Fabricius, 1777)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Brumovská street (5), 13.ix.1999, LT, 1 ♂, IM. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 1 ♂ 1 ♀, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 1 ♂, IM. Vápenice, Trstná brook valley (55), 6.vii.2001, 1 ♂, IM & PK. Korytná, Lubná pond environs (56), 5.vii.2001, 2 ♂♂ 1 ♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.vii.1998, 3 ♂♂ 1 ♀; 10.ix.1998, 1 ♀; all IM. Lopeník, U Zvonice NM (63), 3.ix.2005, 1 ♂, PK. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 2 ♀♀, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♀, IM. Radějov, Lučina (76), 14.vii.1998, 4 ♂♂ 2 ♀♀, IM. Malá Vrbka, Výzkum hill (80), 18.vi.2000, 1 ♂, IM & PK. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♀, IM. Radějov, Veselka hill (85), 11.vii.1998, 1 ♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 4 ♂♂ 8 ♀♀; 9.–10.ix.2000, 1 ♀; all IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 3 ♂♂ 2 ♀♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common on scrub and solitary trees scattered in meadows and pastures, along roads, and at forest margins. **General distribution:** Western Palearctic. **Host plants:** *Prunus* spp. (mainly *P. spinosa*), *Quercus* spp. (*Qu. robur*, *Qu. petraea*). **Red List status:** –.

Utecha trivialis (Germar, 1821)

Material examined. Valašské Klobouky, Bílé potoky NR (13), 16.vi.2006, 1 ♀, IM. Nedašov, Jalovcová stráž NR (17), 28.vii.2005, 1 ♂ 1 ♀ 1 larva, IM. Hluk, Babí hora NM (36), 24.viii.2002, 1 ♂, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 1 larva, IM & PK. Výškovec, Výškovecké Bošačky (69), 25.ix.2004, 1 ♂; 24.vii.2005, 1 ♀; 3.ix.2005, 1 ♀ 1 larva; all PK. Kněždub, Čertoryje NNR, Járkovec brook valley (77), 10.ix.2008, 1 ♂, IM. Malá Vrbka, Výzkum hill (80), 20.ix.2001, 1 ♂, IM & PK. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 14.v.1998, 1 ♀; 13.vii.1998, 1 ♂; both IM. Suchov, Suchovské Mlýny (89), 27.vii.2005, 2 ♂♂ 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and quite common in sunny, dry patches of grasslands (meadows, pastures, abandoned fields) throughout the area. **General distribution:** Europe, except the north. **Host plants:** Probably polyphagous on low herbs (*Hippocrepis comosa*, *Echium vulgare*, *Plantago lanceolata*). **Red List status:** –.

***Verdanus abdominalis* (Fabricius, 1803)**

Published records. LANG (1945a): Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99); Suchá Loz, Studený vrch hill (57). MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Javorůvky NR (7), 2.vii.1999, 1 ♀, IM. Valašské Klobouky, Dobšená NM (8), 2.vii.1999, 4 ♂♂, IM. Valašské Klobouky, Brumovka brook valley (9), 30.vi.1999, 1 ♂ 1 ♀, MH. Poteč, Ploštiny NR (12), 4.vii.1999, 1 ♂ 1 ♀, IM; 1.vi.2002, 44 ♂♂ 10 ♀♀ 4 larvae, IM; 17.viii.2006, 1 ♀, PK. Valašské Klobouky, Bílé potoky NR (13), 16.vi.2006, 1 ♂; 11.vii.2006, 1 ♂ 2 ♀♀; all IM. Nedašov, Jalovcová stráž NR (17), 3.vii.1999, 2 ♂♂ 2 ♀♀; 30.vi.2004, 13 ♂♂ 10 ♀♀; 28.v.2005, 6 ♂♂ 1 ♀ 10 larvae; 28.vii.2005, 1 ♀; 17.vi.2006, 4 ♂♂ 1 ♀; all IM; 16.viii.2006, 1 ♀, PK. Nedašov, Kaňoury NM (18), 17.vi.2006, 5 ♂♂ 2 ♀♀, IM; 12.vii.2006, 4 ♂♂ 6 ♀♀, IM; 16.viii.2006, 2 ♀♀, PK. Bylnice, Na Stráži (25), 16.vi.2006, 6 ♂♂; 11.vii.2006, 2 ♀♀; all IM. Bylnice, Bylničky (26), 24.vi.1982, 3 ♂♂ 2 ♀♀, PL. Nedašov, Pod Cigánem NM (30), 30.vi.2004, 13 ♂♂ 7 ♀♀ 2 larvae; 1.ix.2004, 1 ♀; 28.v.2005, 7 larvae; 28.vii.2005, 5 ♂♂ 11 ♀♀; all IM. Horní Němčí, Hornoněmčanský háj forest (45), 7.vii.1985, 1 ♂ 1 ♀, PL. Korytná, Březi (46), 5.vii.2001, 6 ♂♂ 4 ♀♀, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 19 ♂♂ 72 ♀♀, IM & PK; 13.viii.2001, 1 ♀, PK; 23.v.2002, 22 ♂♂ 10 ♀♀ 34 larvae, IM & PK; 21.vii.2002, 8 ♂♂ 22 ♀♀, IM. Strání, Obecnice hill (60), 24.v.2001, 1 ♂ 6 larvae, IM; 2.vii.2001, 1 ♀, IM & PK. Strání, Důbrava hill (62), 7.vii.1980, 2 ♂♂ 2 ♀♀, PL. Lopeník, U Zvonice NM (63), 27.vi.2004, 28 ♂♂ 7 ♀♀ 6 larvae, IM; 18.viii.2004, 1 ♀, PK; 21.v.2005, 4 larvae, IM; 24.vii.2005, 1 ♂ 1 ♀, IM; 3.ix.2005, 1 ♀, PK. Lopeník, Lopenické sedlo (64), 27.vi.2004, 2 ♂♂ 7 ♀♀; 21.v.2005, 1 larva; 24.vii.2005, 1 ♂ 4 ♀♀; all IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 1 ♀, IM. Vyškovec, Vyškovecké Bošačky (69), 27.vi.2004, 36 ♂♂ 36 ♀♀, IM; 21.v.2005, 78 larvae, IM; 24.vii.2005, 7 ♂♂ 10 ♀♀, PK. Vyškovec, Pod Hřibovňou NM (70), 28.vi.2004, 4 ♂♂ 3 ♀♀ 2 larvae; 21.v.2005, 5 larvae; all IM. Kněždub, Čertoryje NNR (77, 79), 19.vi.1980, 3 ♂♂ 1 ♀, PL. Malá Vrbka, Výzkum hill (80), 18.v.2002, 1 larva; 27.vi.2002, 1 ♀; both IM. Radějov, Kútky NR (86), 2.vi.1979, 1 ♂ 1 ♀, PL. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 2 ♂♂ 2 ♀♀, IM; 19.vi.2000, 2 ♀♀, PK. Suchov, Suchovské Mlýny (89), 23.vi.2004, 10 ♂♂ 17 ♀♀, IM; 18.viii.2004, 1 ♀, PK; 26.v.2005, 33 ♂♂ 7 ♀♀ 63 larvae, IM; 27.vii.2005, 13 ♂♂ 15 ♀♀, IM; 1.ix.2005, 1 ♀, IM. Suchov, Trnovský Mlýn (90), 23.vi.2004, 97 ♂♂ 82 ♀♀ 9 larvae, IM; 16.viii.2004, 1 ♀, PK; 26.v.2005, 41 larvae, IM; 27.vii.2005, 4 ♂♂ 18 ♀♀, IM; 1.ix.2005, 1 ♀, IM. Velká nad Veličkou, towards Javorník (91), 10.vi.1982, 1 ♂ 1 ♀, PL. Javorník, SW slopes of Háj hill (93), 19.vi.1980, 1 ♂, PL. Javorník, Nad Vápenkou NM (94), 9.vii.1998, 1 ♂, IM. Javorník, loampit W of village (95), 24.v.2002, 1 ♀, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 6 ♂♂ 5 ♀♀, IM. Javorník, Petruchovy Mlýny (97), 23.vi.2004, 2 ♂♂ 1 ♀ 1 larva; 26.v.2005, 1 ♂ 9 larvae; 27.vii.2005, 1 ♀; all IM. Nová Lhota, Fojtické Mlýny (98), 7.vii.1980, 2 ♂♂ 2 ♀♀, PL. Nová Lhota, Vápenky, Porážky NNR (99), 15.vii.1998, 1 ♂ 1 ♀, IM. Javorník, Machová NR (102), 9.vii.1998, several ♂♂ ♀♀, IM. Javorník, Výzkum hill (103), 10.vi.1982, 8 ♂♂ 12 ♀♀, PL. Strání, Záhumenice NM (104), 24.v.2001, 1 larva; 2.vii.2001, 2 ♀♀; all IM. Strání, Javorina NNR (106), 4.vii.2001, 2 ♂♂ 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in meadows and pastures throughout the area, including the highest elevations. **General distribution:** Western Palaearctic. **Host plants:** Poaceae (*Holcus lanatus*, *Festuca rubra*, *Agrostis capillaris*, *Avenella flexuosa*). **Red List status:** –.

***Viridicerus ustulatus* (Mulsant et Rey, 1855)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Velká nad Veličkou, village (87), 19.vi.2000, 1 ♀, PK.

Distribution and frequency in the Bílé Karpaty PLA: Known only from two sites in the south-western part of the area; along roads and at forest margins. **General distribution:** Western Palaearctic. **Host plant:** *Populus alba*. **Red List status:** –.

***Wagneripteryx germari* (Zetterstedt, 1840)**

Material examined. Nedašov, Jalovcová stráň NR (17), 3.vii.1999, 1 ♀; 12.vii.2006, 1 ♀; all IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 1 ♂ 7 ♀♀; 10.ix.2002, 1 ♀; all IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 2 ♀♀, IM. Kněždub, Kněždubský háj forest (75), 22.vi.2001, 1 ♀, IM & PK. Radějov, Měsíční údolí valley (84), 8.ix.1998, 2 ♀♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 18.viii.2000, 1 ♀, PK; 9.–10.ix.2000, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, although quite local; on solitary pines in grasslands and along forest margins. **General distribution:** Eurosiberian. **Host plants:** *Pinus sylvestris*, *P. mugo*. **Red List status:** –.

***Zonocyba bifasciata* (Boheman, 1851)**

Material examined. Poteč, Ploščiny NR (12), 13.ix.1999, 2 ♀♀, IM; 17.viii.2006, 1 ♀, PK. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 1 ♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 3 ♀♀, IM. Starý Hrozenkov, Skalka quarry (67), 8.viii.2007, 1 ♀, IM. Kněždub, Kněždubský háj forest (75), 28.vii.2000, 2 ♂♂ 1 ♀, IM. Radějov, Lučina (76), 14.vii.1998, 1 ♀, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread at forest margins throughout the area, although usually recorded in low numbers of specimens. **General distribution:** European. **Host plant:** *Carpinus betulus*. **Red List status:** –.

***Zygina angusta* Lethierry, 1874**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Dobšená NM (8), 10.ix.1999, 1 ♂, IM. Valašské Klobouky, Bílé potoky NR (13), 11.vii.2006, 1 ♀, IM. Nedašov, Kaňoury NM (18), 16.viii.2006, 1 ♀, PK. Bylnice, Na Stráži (25), 11.vii.2006, 1 ♀, IM. Bylnice, Bylničky (26), 24.vi.1982, 2 ♀♀, PL. Hluk, Kobylí hlava NM (35), 24.viii.2002, 1 ♂ 1 ♀, IM. Horní Němčí, Hornoněmčanský háj forest (45), 7.vii.1980, 1 ♀, PL; 10.ix.2002, 2 ♀♀, IM. Korytná, Březí (46), 5.vii.2001, 2 ♀♀, IM. Horní Němčí, Drahy NR (48), 10.ix.2002, 1 ♂, IM. Březová, Kalábová NM (58), 4.vii.2001, 1 ♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 1 ♀, IM. Strání, Obecnice hill (60), 9.viii.2001, 1 ♂ 1 ♀, PK; 21.ix.2001, 1 ♀, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♀; 8.viii.2007, 1 ♂; 22.ix.2007, 11 ♂♂ 10 ♀♀; all IM. Kněždub, Čertoryje NNR (77, 79), 19.vi.1980, 1 ♀, PL. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 4 ♂♂ 7 ♀♀, MT, JM & PC. Hrubá Vrbka, football ground (82), 20.ix.2001, 2 ♀♀, IM. Radějov, Kútky NR (86), 8.ix.1998, 1 ♀, IM. Velká nad Veličkou, village (87), 9.ix.2000, 2 ♂♂; 22.x.2000, 5 ♂♂ 1 ♀; all IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 13.vii.1998, 1 ♂, IM; 9.–10.ix.2000, 4 ♂♂ 6 ♀♀, IM. Suchov, Suchovské Mlýny (89), 1.ix.2005, 1 ♀, IM. Javorník, Jazevčí NNR (96), 6.v.2000, 1 ♂ 1 ♀; 19.vi.2000, 1 ♀; 10.ix.2000, 2 ♂♂ 2 ♀♀; all IM. Javorník, Petruchovy Mlýny (97), 9.viii.2001, 1 ♀, PK. Javorník, Machová NR (102), 4.vi.2010, 1 ♀; 14.vi.2010, 1 ♂ 12 ♀♀; all MT, JM & PC. Javorník, Výzkum hill (103), 10.vi.1982, 2 ♀♀, PL.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common throughout the area; on shrubs and trees scattered in meadows and pastures, as well as along forest margins. **General distribution:** Eurosiberian. **Host plants:** *Crataegus* spp., *Rosa* spp., *Prunus spinosa*, *Quercus* spp. **Red List status:** –.

***Zygina flammigera* (Geoffroy, 1785)**

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Lipová, towards Haluzice (4), 21.viii.1984, 1 ♀, PL. Valašské Klobouky, U Rybníků (6), 10.ix.1999, 4 ♂♂ 9 ♀♀, IM. Poteč, Ploščiny NR (12), 1.vi.2002, 2 ♀♀, IM; 17.viii.2006, 1 ♀, PK. Valašské Klobouky, Bílé potoky NR (13), 9.ix.1999, 1 ♀, IM; 14.viii.2006, 1 ♂ 1 ♀, PK. Nedašov, Jalovcová stráň NR (17), 25.vi.2002, 1 ♂, PK; 5.x.2004, 1 ♂ 1 ♀; 28.v.2005, 1 ♀; all IM. Nedašov, Kaňoury NM (18), 16.viii.2006, 2 ♀♀, PK. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 1 ♀, IM. Horní Němčí, Drahy NR (48), 15.v.1998, 1 ♀; 30.vi.2001, 1 ♀; both IM. Korytná, Lubná pond environs (56), 5.vii.2001, 1 ♀, IM. Lopeník, U Zvonice NM (63), 25.ix.2004, 1 ♂ 4 ♀♀, IM. Starý Hrozenkov, Skalka quarry (67), 8.viii.2007, 1 ♂; 22.ix.2007, 1 ♂; both IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♀; 22.ix.2007, 2 ♂♂ 4 ♀♀; all IM. Radějov, Holý vrch hill (74), 8.ix.1998, 1 ♂, IM. Kněždub, Kněždubský háj forest (75), 17.vi.2000, 1 ♀; 28.vii.2000, 1 ♀; 20.ix.2001, 1 ♂; all IM. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 1 ♂ 8 ♀♀, MT, JM & PC. Hrubá Vrbka, football ground (82), 19.vi.2000, 1 ♀, IM & PK. Velká nad Veličkou, village (87), 18.iv.2000, 2 ♀♀; 9.ix.2000, 1 ♂; 22.x.2000, 5 ♂♂; all IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 3 ♂♂ 7 ♀♀, IM. Velká nad Veličkou, towards Javorník (91), 10.vi.1982, 1 ♂, PL. Javorník, village (92), 8.viii.2001, 1 ♀, PK. Javorník, Jazevčí NNR (96), 10.ix.2000, 1 ♂ 1 ♀, IM. Javorník, Petruchovy Mlýny (97), 9.viii.2001, 1 ♂, PK. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 1 ♂, IM. Javorník, Machová NR (102), 14.vi.2010, 4 ♂♂ 6 ♀♀, MT, JM & PC. Strání, Záhumenice NM (104), 12.ix.2002, 1 ♂, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common on solitary shrubs and trees, in orchards, and at forest margins. **General distribution:** Eurosiberian. **Host plants:** Polyphagous on deciduous woody-plants (mainly *Prunus*, *Malus*, *Crataegus*, *Sorbus* and *Rosa*). **Red List status:** –.

Zygina frauenfeldi* Lethierry, 1880*(CR)**

Material examined. Javorník, loampit W of village (95), 7.ix.1998, 1 ♂ 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Sporadic and local: known from a single record in the south-western part of the area; on a sparsely vegetated slope in an abandoned loampit. **General distribution:** Southern parts of central Europe and the Balkan peninsula (HOLZINGER *et al.* 2011). **Host plant:** *Sanguisorba minor*. **Red List status:** Critically endangered.

Comments. *Zygina frauenfeldi* is a rare and local species throughout its range of distribution (HOLZINGER *et al.* 2011). In the Czech Republic, it has been so far known only from xerothermic grasslands on limestone rocks in the Pavlovské vrchy Hills (LAUTERER 1980, 1995a) and there is another recent record of a population in an abandoned limestone quarry on the Hády hill near Brno (I. Malenovský, unpublished) suggesting that post-mining sites may represent favourable habitats for this endangered species.

***Zygina griseombra* Remane, 1994**

Material examined. Poteč, Ploščiny NR (12), 13.ix.1999, 1 ♂, IM. Horní Němčí, Hornoněmčanský háj forest (45), 10.ix.2002, 1 ♀, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread but rare or under-recorded; in oak-hornbeam forests and along their margins. **General distribution:** European. **Host plant:** *Carpinus betulus*. **Red List status:** –.

Zygina hyperici (Herrich-Schäffer, 1836)

Published records. LANG (1945a): Horní Němčí, Lesná hill/ Nová Lhota, Vápenky, Porážky NNR (51/99).
Additional material examined. Poteč, Ploštiny NR (12), 13.ix.1999, 1 ♀, IM; 1.vi.2002, 19 ♂♂ 51 ♀♀, IM; 24.viii.2002, 1 ♀, PK. Nedašov, Jalovcová stráň NR (17), 3.vii.1999, 1 ♀; 10.ix.1999, 3 ♀♀; all IM. Nedašov, Kaňoury NM (18), 12.vii.2006, 1 ♂, IM. Rokytnice, Bukovina hill (23), 21.viii.1984, 1 ♂, PL. Bylnice, Na Stráži (25), 16.vi.2006, 4 ♂♂ 10 ♀♀; 11.vii.2006, 1 ♀; all IM. Korytná, Břeží (46), 5.vii.2001, 1 ♀, IM. Horní Němčí, Drahy NR (48), 13.viii.2001, 1 ♂ 1 ♀ 2 larvae, PK; 23.v.2002, 1 ♀, PK; 21.vii.2002, 3 ♂♂ 5 ♀♀, IM; 10.ix.2002, 5 ♂♂ 8 ♀♀, IM. Komňa, Lom Rasová NM (54), 5.vii.2001, 1 ♀, IM. Lopeník, U Zvonice NM (63), 24.vii.2005, 1 ♂, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 4 ♂♂ 3 ♀♀; 8.viii.2007, 1 ♂ 3 ♀♀; 22.ix.2007, 1 ♀; all IM. Výškovec, Pod Hřibovňou NM (70), 25.ix.2004, 1 ♂, PK; 8.ix.2005, 2 ♀♀, IM. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 1 ♂, MT, JM & PC. Malá Vrbka, Výzkum hill (80), 20.ix.2001, 1 ♀, IM & PK. Hrubá Vrbka, football ground (82), 28.vii.2001, 3 ♂♂ 1 ♀, IM. Radějov, Veselka hill (85), 11.vii.1998, 2 ♀♀, IM. Javorník, Jazevčí NNR (96), 10.ix.2000, 1 ♀, IM. Javorník, Petruchovy Mlýny (97), 17.vii.2002, 1 ♀; 7.ix.2002, 2 ♂♂ 2 ♀♀; all IM. Javorník, Výzkum hill (103), 10.vi.1982, 1 ♀, PL.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in meadows and pastures throughout the area. **General distribution:** Western Palaearctic. **Host plant:** *Hypericum perforatum*. **Red List status:** –.

Zygina ordinaria (Ribaut, 1936)

Material examined. Suchov, Suchovské Mlýny (89), 6.v.2000, 1 ♂ 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Recorded from the streamside vegetation in the Velička river valley between Javorník and Suchovské Mlýny. **General distribution:** Eurosiberian. **Host plants:** *Salix* spp. (mainly *S. alba*, *S. triandra*, *S. viminalis*, *S. fragilis*, *S. purpurea*, *S. repens*, and *S. pentandra*). **Red List status:** –.

Comments. *Zygina ordinaria* was recorded from the Czech Republic by DLABOLA (1954) from Bohemia. However, a revision of the corresponding material in Dlabola collection in the Muséum national d'Histoire naturelle in Paris has revealed that the material was originally misidentified and belongs to several other *Zygina* spp. (mostly *Z. angusta*). Here we provide the first confirmed data on *Z. ordinaria* from the Czech Republic. Based on additional unpublished material from the collection of the Moravian Museum, Brno, *Z. ordinaria* is a quite widespread species, at least in Moravia.

Zygina schneideri (Günthart, 1974)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).
Additional material examined. Valašské Klobouky, Královec hill (11), 10.ix.1999, 1 ♀, IM. Hluk, Kobylí hlava NM (35), 24.viii.2002, 1 ♂, IM. Hluk, Babí hora NM (36), 24.viii.2002, 5 ♂♂ 6 ♀♀, IM. Korytná, Břeží (46), 5.vii.2001, 1 ♀, IM. Březová, Kalábová NM (58), 4.vii.2001, 1 ♀, IM. Starý Hrozenkov, Skalka quarry

(67), 8.viii.2007, 1 ♀, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 8.viii.2007, 1 ♀; 22.ix.2007, 2 ♀♀; all IM. Radějov, Lučina (76), 14.vii.1998, 1 ♂, IM. Hrubá Vrbka, football ground (82), 19.vi.2000, 1 ♂, IM & PK; 20.ix.2001, 2 ♂♂, IM. Velká nad Veličkou, village (87), 18.iv.2000, 3 ♂♂ 2 ♀♀, IM; 18.viii.2000, 1 ♀, PK; 9.ix.2000, 4 ♂♂ 1 ♀, IM; 22.x.2000, 1 ♂ 5 ♀♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 18.iv.2000, 3 ♀♀, IM; 9.–10.ix.2000, 19 ♂♂; all IM. Suchov, Suchovské Mlýny (89), 6.v.2000, 1 ♀, IM. Javorník, Jazevčí NNR (96), 10.ix.2000, 2 ♂♂ 2 ♀♀, IM. Javorník, Petruchovy Mlýny (97), 23.ix.2001, 2 ♂♂, IM. Strání, Javorina NNR (106), 4.vii.2001, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area but apparently common only in its south-western part; on shrubs scattered in meadows and pastures, on waysides, and along sunny forest margins. **General distribution:** European. **Host plants:** Rosaceous shrubs (*Prunus spinosa*, *Rosa* spp., *Cotoneaster*, *Potentilla fruticosa*). **Red List status:** –.

Zygina suavis Rey, 1891

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Járkovec brook valley (77).

Additional material examined. Valašské Klobouky, Na Nivách (10), 9.ix.1999, 1 ♂ 1 ♀, IM. Bylnice, Lazy NR and surrounding meadows on N slopes of Pláňava hill (28), 12.ix.1999, 1 ♀, IM. Strání, Hrnčárky NM and Žabka reservoir surroundings (59), 10.ix.1998, 1 ♂ 1 ♀, IM. Starý Hrozenkov, Hrozenkovské terasy (68), 22.ix.2007, 1 ♂, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 9 ♂♂, IM. Javorník, Jazevčí NNR (96), 10.ix.2000, 1 ♂ 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area even if quite local; in spring fens and along forest margins. **General distribution:** Eurosiberian. **Host plants:** *Frangula alnus*, *Rhamnus cathartica*. **Red List status:** –.

Zygina tiliae (Fallén, 1806)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR, Radějovka brook valley (79).

Additional material examined. Korytná, Lubná pond environs (56), 5.vii.2001, ?2 ♀♀, IM. Lopeník, U Zvonice NM (63), 25.ix.2004, 1 ♂, IM. Radějov, Měsíční údolí valley (84), 8.ix.1998, 2 ♂♂, IM. Velká nad Veličkou, village (87), 22.x.2000, 4 ♂♂, IM. Nová Lhota, Vápenky, Porážky NNR (99), 28.x.2011, 1 ♂, IM. Strání, Javorina NNR (106), 29.x.2011, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Recorded from the south-western and central parts of the area, quite uncommon; swept from trees near water or as overwintering specimens on spruce at forest margins. **General distribution:** European. **Host plants:** *Alnus glutinosa*, *A. incana*, *Tilia cordata*. **Red List status:** –.

Zyginella pulchra Löw, 1885

Published records. MALENOVSKÝ & LAUTERER (2010): Poteč, Ploščiny NR (12); Hluk, Kobyli hlava NM (35).

Additional material examined. Nedašov, Kaňoury NM (18), 16.viii.2006, 2 ♂♂, PK. Lopeník, U Zvonice NM (63), 25.ix.2004, 1 ♂ 2 ♀♀, IM. Lopeník, Lopenické sedlo (64), 25.ix.2004, 1 ♀, IM. Lopeník, Mikulčín vrch hill (65), 25.ix.2004, 1 ♂, IM. Nová Lhota, Vápenky, Porážky NNR (99), 28.x.2011, 1 ♂, IM. Strání, Javorina NNR (106), 29.x.2011, 1 ♀, IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area but preferring cooler sites at higher elevations; usually recorded in low numbers at forest

margins or on solitary trees in pastures. **General distribution:** Southern parts of central Europe, south-eastern Europe, Mediterranean region and the Near East. **Host plants:** Mainly *Acer pseudoplatanus*. **Red List status:** –.

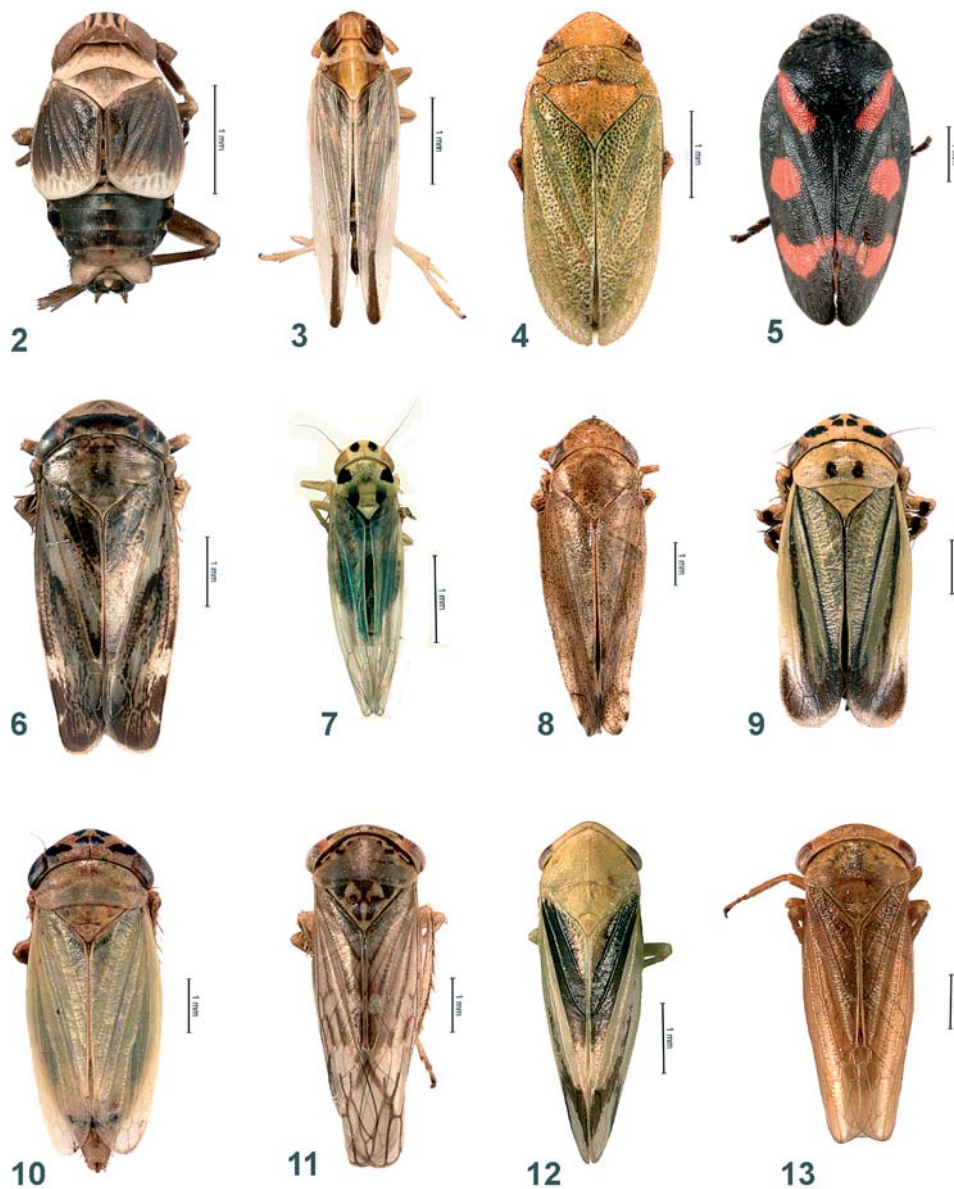
Comments. *Zyginella pulchra* has recently expanded its range in central Europe. First specimens in the Czech Republic were collected in 2000 (first records from the Bílé Karpaty PLA date back to 2002); currently, the species is widespread across whole Moravia and northern Bohemia (MALENOVSKÝ & LAUTERER 2010).

Zyginidia pullula (Boheman, 1845)

Published records. MALENOVSKÝ (2001): Kněždub, Čertoryje NNR (77, 79).

Additional material examined. Valašské Klobouky, Brumovská street (5), 13.ix.1999, LT, 1 ♂ 1 ♀, IM. Valašské Klobouky, Javorůvky NR (7), 11.ix.1999, 1 ♀, IM. Valašské Klobouky, Brumovka brook valley (9), 9.ix.1999, 1 ♂ 1 ♀, IM. Poteč, Ploštiny NR (12), 13.ix.1999, 2 ♂♂, IM; 1.vi.2002, 1 ♂ 3 ♀♀, IM; 17.viii.2006, 1 ♀, PK. Brumov, Uhlíčky (14), 30.vi.2004, 1 ♂; 1.ix.2004, 6 ♂♂ 6 ♀♀; 5.x.2004, 9 ♂♂ 4 ♀♀; all IM; 28.vii.2005, 1 larva; 4.ix.2005, 1 ♀; both PK. Nedašov, Jalovcová stráň NR (17), 10.ix.1999, 1 ♀; 5.x.2004, 2 ♀♀; 6.ix.2005, 1 ♂ 4 ♀♀; 17.vi.2006, 1 ♀; all IM; 16.viii.2006, 1 ♀, PK. Brumov, Kloboucká street (24), 2.ix.2004, 2 ♂♂ 2 ♀♀; 5.x.2004, 2 ♂♂ 2 ♀♀; 28.v.2005, 1 ♀; all IM; 4.ix.2005, 2 ♂♂ 3 ♀♀, PK. Bylnice, railway station environs (27), 11.ix.1999, 2 ♂♂ 3 ♀♀, IM. Nedašov, Pod Cigánem NM (30), 1.ix.2004, 1 ♂ 1 ♀; 5.x.2004, 1 ♂ 2 ♀♀; 6.ix.2005, 2 ♂♂; all IM. Sidonie, Vlárský průsmyk pass (33), 12.ix.1999, 1 ♀, IM. Hluk, Kobyli hlava NM (35), 24.viii.2002, 1 ♀, IM. Hluk, Babí hora NM (36), 24.viii.2002, 2 ♂♂, IM. Korytná, Břeží (46), 5.vii.2001, 1 ♂ 5 ♀♀, IM. Suchov, Kazivec brook valley (47), 9.ix.1998, 1 ♀, IM. Horní Němčí, Drahy NR (48), 30.vi.2001, 1 ♂ 1 ♀, IM; 13.viii.2001, 2 ♂♂ 5 ♀♀, PK; 21.ix.2001, 1 ♂ 1 ♀, PK; 23.v.2002, 1 ♂ 2 ♀♀, PK; 21.vii.2002, 6 ♂♂ 6 ♀♀, IM; 10.ix.2002, 45 ♂♂ 48 ♀♀, IM. Horní Němčí, Vinohrádky (49), 30.vi.2001, 1 ♂ 1 ♀, IM; 13.viii.2001, 6 ♂♂ 8 ♀♀, PK; 21.ix.2001, 3 ♂♂ 1 ♀, PK; 20.vii.2002, 16 ♂♂ 20 ♀♀, IM; 10.ix.2002, 33 ♂♂ 13 ♀♀, IM. Korytná, Lubná pond environs (56), 5.vii.2001, 1 ♂, IM. Strání, Obecnice hill (60), 24.v.2001, 2 ♂♂ 4 ♀♀, IM; 2.vii.2001, 1 ♂, IM & PK; 9.viii.2001, 2 ♂♂, PK; 21.ix.2001, 25 ♂♂ 8 ♀♀, IM; 23.v.2002, 6 ♂♂ 5 ♀♀, IM. Lopeník, U Zvonice NM (63), 18.viii.2004, 1 ♂ 1 ♀, PK; 25.ix.2004, 2 ♂♂ 2 ♀♀, IM; 3.ix.2005, 1 ♂, PK. Lopeník, Lopenické sedlo (64), 27.vi.2004, 1 ♂, IM; 25.ix.2004, 1 ♀, IM; 24.vii.2005, 2 ♀♀, IM; 3.ix.2005, 1 ♂ 1 ♀, PK. Lopeník, Mikulčín vrch hill (65), 24.vii.2005, 1 ♀, IM. Starý Hrozenkov, Skalka quarry (67), 2.vii.2007, 2 ♂♂; 22.ix.2007, 8 ♂♂ 3 ♀♀; all IM. Starý Hrozenkov, Hrozenkovské terasy (68), 2.vii.2007, 1 ♂ 1 ♀; 8.viii.2007, 1 ♂ 1 ♀; 22.ix.2007, 4 ♂♂ 3 ♀♀; all IM. Výchovec, Výchovecké Bošacký (69), 27.vi.2004, 4 ♂♂ 1 ♀, IM; 19.viii.2004, 2 ♀♀, PK; 25.ix.2004, 6 ♂♂ 2 ♀♀, PK; 3.ix.2005, 1 ♀, PK. Výchovec, Pod Hřibovňou NM (70), 25.ix.2004, 1 ♂ 1 ♀, PK; 8.ix.2005, 3 ♀♀, IM. Kněždub, Čertoryje NNR (77, 79), 19.vi.1980, 1 ♂, PL. Kněždub, Čertoryje NNR, Radějovka brook valley (79), 15.vi.2010, 9 ♂♂, MT, JM & PC. Malá Vrbka, Výzkum hill (80), 27.vii.2000, 8 ♂♂ 9 ♀♀, IM & PK. Hrubá Vrbka, football ground (82), 20.ix.2001, 2 ♂♂ 1 ♀, IM. Radějov, Kútky NR (86), 2.vi.1979, 1 ♂, PL; 8.ix.1998, 2 ♂♂ 1 ♀, IM. Velká nad Veličkou, Zahrady pod Hájem NNR (88), 9.–10.ix.2000, 15 ♂♂ 6 ♀♀, IM. Suchov, Suchovské Mlýny (89), 16.viii.2004, 17 ♂♂ 31 ♀♀, PK; 1.x.2004, 76 ♂♂ 152 ♀♀, IM; 26.v.2005, 7 ♂♂ 10 ♀♀, IM; 27.vii.2005, 1 ♂ 1 ♀, IM; 1.ix.2005, 35 ♂♂ 37 ♀♀, IM. Suchov, Trnovský Mlýn (90), 16.viii.2004, 3 ♂♂ 11 ♀♀, PK; 1.x.2004, 70 ♂♂ 101 ♀♀, IM; 26.v.2005, 1 ♂, IM; 27.vii.2005, 3 ♂♂ 7 ♀♀, IM; 1.ix.2005, 15 ♂♂ 20 ♀♀ 1 larva, IM. Javorník, village (92), 24.v.2002, 1 ♂, IM. Javorník, Nad Vápenkou NM (94), 7.ix.1998, 1 ♂ 1 ♀; 7.ix.2002, 6 ♂♂ 2 ♀♀, IM. Javorník, Jazevčí NNR (96), 19.vi.2000, 1 ♂ 1 ♀; 10.ix.2000, 10 ♂♂ 6 ♀♀; all IM. Javorník, Petruchovy Mlýny (97), 2.ix.2004, 30 ♂♂ 34 ♀♀; 1.x.2004, 19 ♂♂ 36 ♀♀; 26.v.2005, 1 ♂ 3 ♀♀ 1 larva; 27.vii.2005, 8 ♂♂ 5 ♀♀ 1 larva; 1.ix.2005, 2 ♂♂ 2 ♀♀; all IM. Nová Lhota, Vápenky, Porážky NNR (99), 9.ix.1998, 1 ♀, IM. Strání, Záhumenice NM (104), 9.viii.2001, 2 ♂♂ 2 ♀♀, PK; 21.ix.2001, 4 ♂♂ 4 ♀♀, IM. Strání, Javorina NNR (106), 4.vii.2001, 2 ♂♂ 2 ♀♀; 29.x.2011, 2 ♂♂; all IM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in dry to mesic grassland (meadows, pastures, ruderal sites) throughout the area. **General distribution:** Western Palaearctic. **Host plants:** Various Poaceae. **Red List status:** –.



Figs 2–13. Some noteworthy planthopper and leafhopper species recorded in the Bílé Karpaty PLA. 2 – *Criomorpha williamsi* China; 3 – *Kelisia irregulata* Haupt; 4 – *Tettigometra virescens* (Panzer); 5 – *Cercopis arcuata* Fieber; 6 – *Athysanus quadrum* Boheman; 7 – *Eupteryx lelievrei* (Lethierry); 8 – *Fieberiella bohémica* Dlabola; 9 – *Handianus flavovarius* (Herrich-Schäffer), ♂; 10 – *H. flavovarius*, ♀; 11 – *Idiocerus vicinus* Melichar; 12 – *Macropsis gravesteini* Wagner; 13 – *Rhytidodus wagneri* Dlabola. Scale bar 1 mm.

Discussion and conclusions

A total of 352 species of leafhoppers and planthoppers has been recorded from the Bílé Karpaty PLA to date, which makes up 62% of the Auchenorrhyncha fauna of the Czech Republic. This probably means that the regional Auchenorrhyncha biodiversity of this area is quite high, even if any comparison of this number with other regions in the Czech Republic is limited by a lack of faunistic studies summarizing data on a regional scale. LAUTERER (1995a) listed 180 species of Auchenorrhyncha from the Pálava Biosphere Reserve in its extended concept, MALENOVSKÝ (2006) found 231 species in the Kokořínsko Protected Landscape Area in central/northern Bohemia, and MALENOVSKÝ *et al.* (2011) recorded 237 species from 15 dry grassland reserves in the Pannonian part of southern Moravia. The numbers of Auchenorrhyncha species in individual localities in the Bílé Karpaty PLA exceed 100 in well-preserved reserves (KMENT & MALENOVSKÝ 2008), with the highest number recorded in the Čertoryje National Nature Reserve (195 species; MALENOVSKÝ 2001 and additional data included in this paper). Similarly high proportions (>50%) of species recorded in the Bílé Karpaty PLA compared with the fauna of the whole Czech Republic were also found in several other well-investigated invertebrate groups in the region, namely the molluscs (Mollusca), small annelids (Annelida: Enchytraeidae), harvestmen (Opiliones), centipedes (Chilopoda), dragonflies (Odonata), grasshoppers and crickets (Orthoptera), jumping-plant lice (Hemiptera: Psylloidea), true bugs (Hemiptera: Heteroptera), ground beetles (Coleoptera: Carabidae), ants (Hymenoptera: Formicidae), and moth flies (Diptera: Psychodidae). The Bílé Karpaty PLA may thus be considered, in general terms, one of the hot spots of the invertebrate diversity in the whole Czech Republic (MALENOVSKÝ *et al.* 2012).

This is further supported by the relatively high proportion of species considered threatened. Among the Auchenorrhyncha, 86 species (24%) recorded in the Bílé Karpaty PLA are included in the Red List of threatened invertebrates of the Czech Republic (MALENOVSKÝ & LAUTERER 2005a): five species are categorised as critically endangered (*Criomorphus williamsi*, *Delphax pulchellus*, *Euides alpina*, *Tettigometra leucophaea*, and *Zygina frauenfeldi*); 15 as endangered (*Cixius sticticus*, *Delphacodes capnodes*, *Delphax crassicornis*, *Euconomelus lepidus*, *Kelisia guttulifera*, *K. monoceros*, *K. sima*, *Megamelodes quadrimaculatus*, *Paradelphacodes paludosus*, *Tettigometra fusca*, *T. virescens*, *Batracomorphus allionii*, *Cosmotettix caudatus*, *Macropsis glandacea*, and *Psammotettix poecilus*); 47 as vulnerable, and 19 as near-threatened.

Edwardsiana ulmiphagus and *Idiocerus vicinus* are reported here for the first time for the Czech Republic and four species, *Muellerianella fairmairei*, *Fieberiella bohémica*, *Macropsis gravesteini* and *Zygina ordinaria*, for the first time for Moravia. All belong to taxonomically critical groups and may have been partly overlooked or misidentified in the past. *Edwardsiana ulmiphagus* has recently been distinguished from the similar and closely related *E. lethierryi* and *E. plurispinosa* by WILSON & CLARIDGE (1999). Some records assigned to *Edwardsiana hippocastani* (Edwards, 1888) (currently a synonym of *E. lethierryi*) in previously published Czech literature belong to *E. ulmiphagus* (e.g. DLABOLA 1954). *Idiocerus vicinus*, *Macropsis gravesteini* and *Zygina ordinaria* are all *Salix*-feeders with relatively wide general distributions but close

morphological resemblances to related species (see RIBAUT 1952, REMANE 1994, TISHECHKIN 2002, and BIEDERMANN & NIEDRINGHAUS 2004 for diagnostic characters). All probably occur in the Czech Republic also outside of the Bílé Karpaty PLA but a revision/evaluation of material already deposited in the museum collections and further field studies are needed to reveal their fine distribution in the country. *M. fairmairei* is probably a prevalingly western European (Atlantic) species also distributed in the Mediterranean area (BOOIJ 1981). In the Czech Republic, it has been confirmed in central and southern Bohemia but may be more widespread; specimens are often difficult to identify as only females are usually recorded (MALENOVSKÝ 2006 and unpublished data). *F. bohémica* has been known to date only from the type series from central Bohemia (DLABOLA 1965a) but it may be part of a cline or species complex extending into south-eastern Europe (MEYER-ARNDT & REMANE 1992a,b).

Kelisia irregulata, fairly frequent in the Bílé Karpaty PLA in spring fens and intermittently dry grassland, has not yet been recorded in the Czech Republic outside the Bílé Karpaty PLA. The same is true of *Trigonocranus emmeae*, a cryptically-living, soil-dwelling planthopper that is only rarely collected anywhere in central Europe. A highly characteristic species of semi-dry grasslands in the Bílé Karpaty PLA is *Handianus flavovarius*, a conspicuous leafhopper. This eastern European/central Asian species is fairly common and widely distributed along the entire ridge of the Bílé Karpaty Mts. but is otherwise known from only a few additional places in the Czech Republic, reaching the absolute westernmost limit of its distribution in the environs of the town of Bučovice in south-eastern Moravia (LAUTERER 1983, MALENOVSKÝ *et al.* 2011). The Bílé Karpaty PLA is also noteworthy for the relatively frequent occurrence of several other species confined to species-rich grasslands (semi-dry meadows and pastures) that are quite rare elsewhere in the Czech Republic, among them *Tettigometra impressopunctata*, *T. virescens*, *Cercopis arcuata*, *Allygidius abbreviatus*, *Athysanus quadrum*, *Batracomorphus allionii*, *Eupteryx lelievrei*, and *E. origani*. Many additional species of planthoppers and leafhoppers threatened at national level are restricted to calcareous spring fens, a generally highly-endangered habitat in all of central Europe. Although scarce in the rest of the Czech Republic, spring fens in the Bílé Karpaty are relatively numerous and occur scattered on slopes in meadows and pastures, harbouring a species-rich Auchenorrhyncha fauna including *Chloriona unicolor*, *Delphax crassicornis*, *Euides alpina*, *Florodelphax leptosoma*, *Kelisia guttula*, *K. irregulata*, *K. pallidula*, *K. praecox*, *K. vittipennis*, *Megamelodes quadrimaculatus*, *Paradelphacodes paludosus*, *Stenocranus fuscovittatus*, *Eupteryx collina*, *Sorhoanus assimilis*, as well as many other, more common hygrophilous species. Altogether some 200 species of leafhoppers and planthoppers are associated with various grassland communities, open wetlands, and meadow/pasture fringes in the Bílé Karpaty PLA (KMENT & MALENOVSKÝ 2008). Species-rich meadows and pastures and calcareous spring fens are thus key habitats in the Bílé Karpaty PLA for Auchenorrhyncha from a conservationist viewpoint, just as they are for plants and many other groups of invertebrates (HÁJEK 1998, HÁJEK *et al.* 2005, HORSÁK 2005, POULÍČKOVÁ *et al.* 2005, JONGEPIEROVÁ 2008). Both grassland and spring fens are dependent on regular but careful (sensitive and informed) management by farmers and/or local conservation authorities, an approach that needs to block natural

succession at an optimum stage for threatened species, usually by removing biomass (cutting, grazing and scrub removal) at the same time as avoiding the other extreme of over-intensive use, which would also lead to decline of priority species (JONGEPIEROVÁ 2008, KONVIČKA *et al.* 2008).

A considerable number of leafhoppers and planthoppers (*ca.* 130 species) are also associated with woody plants, particularly those growing along sunny forest margins, hedges and as solitary trees and shrubs scattered within and between meadows and pastures, as is typical of the Bílé Karpaty landscape, and along brooks and rivers. These habitats, too, are rich in Auchenorrhyncha including some rare species, among them *Cixius sticticus*, *C. stigmaticus*, *Cicadetta montana*, *Issus muscaeformis*, *Allygidius furcatus*, *Allygus maculatus*, *Edwardsiana bergmani*, *E. ishidai*, *E. lamellaris*, *E. soror*, *Kybos mucronatus*, *K. strobli*, *Fieberiella bohémica*, *Macropsis glandacea*, *Rhytidodus wagneri*, *Sagatus punctifrons*, *Thamnotettix exemtus* and others).

In addition to the many mesophilous, widely distributed species in central Europe, both xerothermophilous species with strongholds in the warmest parts of the Czech Republic and psychrophilous species predominantly distributed in submontane or montane areas in central Europe are represented in the Auchenorrhyncha fauna of the Bílé Karpaty PLA. Some xerothermophilous species are restricted to only the warmer, south-western part of the Bílé Karpaty Mts. (the environs of Radějov, Kněždub, Velká nad Veličkou, Javorník, Suchov and Horní Němčí, e.g. *Reptalus quinquecostatus*, *Jassidaeus lugubris*, *Tettigometra fusca*, *Neophilaenus infumatus*, *Gargara genistae*, *Allygidius atomarius*, *A. furcatus*, *Fagocyba carri*, *Platymetopius undatus*, *Thamnotettix exemtus*, *Tremulicerus distinguendus*, and *Zygina frauenfeldi*), while others were also found at the warmest sites in the generally colder central and north-eastern parts of the area, particularly in the valleys open to the south-east in the warm River Váh valley in Slovakia, which may play the role of corridors for the spread of thermophilous species (e.g. the environs of Bylnice in the Vlárský průsmyk pass: *Reptalus panzeri* and *Dictyophara europaea*, or the environs of Vyškovecké Bošacky and Starý Hrozenkov: *Asiraca clavicornis*, *Hardya tenuis*, *Mocydiopsis longicauda*, *Penthimia nigra*, *Rhopalopyx vitripennis*, *Stictocoris picturatus*, *Tettigometra virescens*, and others). In contrast, several species, among them *Delphacinus mesomelas*, *Dicranotropis divergens*, *Javesella discolor*, *Ribautodelphax collina*, *Xanthodelphax flaveola*, *Issus muscaeformis*, *Edwardsiana bergmani*, *Erythria manderstjernii*, *Eupteryx heydenii*, *E. origani*, and *Jassargus pseudocellaris*, clearly prefer the colder conditions of the central and north-eastern Bílé Karpaty Mts. or occur only at higher elevations (e.g. Velká Javořina Mt., 970 m), and represent montane elements in the regional fauna.

The occurrences of four species recorded some time ago in what is now the Bílé Karpaty PLA by LANG (1945a) (*Tettigometra leucophaea*, *Doratura exilis*, *Idiodonus cruentatus*, and *Planaphrodes trifasciata*) have not been confirmed by findings in recent years. While *Planaphrodes trifasciata* may have been overlooked due to its prevalingly epigeic way of life, *Tettigometra leucophaea*, before 1970 a widely distributed species in the Czech Republic, has probably become extinct in most places in the whole country, including the Bílé Karpaty. *Doratura exilis* is an extremely xerothermophilous, stenotopic species of narrow-leaved dry grassland, a habitat which has been practically

eradicated from the Bílé Karpaty since 1945 (MACKOVČIN & JATIOVÁ 2002, JOGEPEROVÁ 2008). The species is currently very rare in the Czech Republic and may have become extinct in the Bílé Karpaty. *Idiodonus cruentatus* may also have declined in the country and has not been collected anywhere in south-eastern Moravia recently, although Lang's material from the 1940s included many specimens.

On the other hand, at least four species of Auchenorrhyncha have spread into the Bílé Karpaty PLA in recent decades. Two of them are invasive exotic species, originating in North America (*Stictocephala bisonia*) and eastern Asia (*Japananus hyalinus*), which have become naturalized and widely distributed in the Czech Republic (LAUTERER & MALENOVSKÝ 2006; MALENOVSKÝ & LAUTERER 2006a,b; LAUTERER *et al.* 2011). *Zyginella pulchra* is originally a southern European species associated mainly with *Acer* spp. which has extended its range into the Czech Republic, probably only shortly before the year 2000 (MALENOVSKÝ & LAUTERER 2010). These three species occur in the Bílé Karpaty PLA in natural or semi-natural habitats (forest margins, scrub, orchards etc.). The last exotic species, *Macropsis elaeagni*, originally from central Asia, is a monophagous species mostly restricted to ornamental gardens and parks or wayside corridors with plantations of *Elaeagnus angustifolia*, its host plant (MALENOVSKÝ & LAUTERER 2006a). In the Bílé Karpaty PLA, it is probably restricted only to ornamental vegetation in villages.

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Souhrn

Křísí (Hemiptera: Auchenorrhyncha) Chráněné krajinné oblasti a biosférické rezervace Bílé Karpaty.

Na základě faunistického průzkumu v letech 1998–2012, dřívějších sběrů uložených ve sbírkách Moravského zemského muzea v Brně a údajů publikovaných v literatuře uvádíme z Chráněné krajinné oblasti a biosférické rezervace Bílé Karpaty a několika blízké situovaných lokalit celkem 352 druhů křísů (Hemiptera: Auchenorrhyncha). Dva druhy, pidikřísek *Edwardsiana ulmiphagus* Wilson et Claridge, 1999 a tykadlenka *Idiocerus vicinus* Melichar, 1898, jsou zde poprvé hlášeny z území České republiky a čtyři druhy, ostruhovník *Muellerianella fairmairei* (Perris, 1857), křísek *Fieberiella bohémica* Dlabola, 1965, prstenovka *Macropsis gravesteini* Wagner, 1953 a pidikřísek *Zygina ordinaria* (Ribaut, 1936), poprvé z Moravy. Fauna křísů moravské strany Bílých Karpat je výjimečně bohatá, jelikož zahrnuje 62 % ze všech druhů křísů současně známých z České republiky. Kromě mnoha široce rozšířených a obecně hojných druhů bylo v Bílých Karpatech nalezeno i 86 druhů zařazených do Červeného seznamu ohrožených bezobratlých České republiky, včetně pěti kriticky ohrožených: plochulka obecná (*Tettigometra leucophaea* (Preyssler, 1792)), která však zřejmě v Bílých Karpatech v posledních desetiletích již vymřela, ostruhovník *Criomorphus williamsi* China, 1939, *Delphax pulchellus* (Curtis, 1833) a *Euides alpina* (Wagner, 1948) a pidikřísek *Zygina frauenfeldi* Lethierry, 1880. Z pohledu ochrany přírody jsou nejvýznamnějšími biotopy pro křísy v Bílých Karpatech zejména extenzivně obhospodařované suché květnaté louky a pastviny, vápnná prameniště a jiné luční mokřady a osluněné lesní okraje včetně soliterních dřevin. Všechna tato prostředí zde hostí druhově bohatá společenstva křísů s relativně častým výskytem řady druhů, které jsou v jiných oblastech České republiky velmi vzácné, případně zcela chybí (např. ostruhovník *Kelisia irregulata* Haupt, 1935; plochulka *Tettigometra virescens* (Panzer, 1799); pěnodějka *Cercopis arcuata* Fieber, 1844; křískové *Athysanus quadrum* (Boheman, 1845) a *Handianus flavovarius* (Herrich-Schäffer, 1835); šířenka *Batracomorphus allionii* (Turton, 1802); pidikřískové *Eupteryx lelievri* (Lethierry, 1874) a *E. origani* Zachvatkin, 1948 a další).

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True bugs (Hemiptera: Heteroptera) of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic)

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KMENT P. & BAŇAŘ P. 2012: True bugs (Hemiptera: Heteroptera) of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic). In: MALENOVSKÝ I., KMENT P. & KONVIČKA O. (eds.): Species inventories of selected insect groups in the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic). *Acta Musei Moraviae, Scientiae biologicae* (Brno) **96(2)** (2011): 323–628. – An extensive survey of true bugs (Hemiptera: Heteroptera) was carried out in the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (south-eastern Moravia, Czech Republic) in 1998–2010, combining various methods of qualitative and quantitative sampling. Before 1998, just 98 species of Heteroptera had been recorded from the Czech side of the Bílé Karpaty Mts., as geographically defined in this contribution. The newly-acquired material yielded 10,732 faunistic records based on examination of ca. 35,984 specimens of Heteroptera. A total of 501 species of true bugs is now known from the Bílé Karpaty PLA, which constitutes 58% of the Czech heteropteran fauna. Among the various habitats, species-rich grasslands are of crucial importance for Heteroptera, harbouring many rare and threatened species, among them *Criocoris nigripes* Fieber, 1861, *Deraeocoris morio* (Boheman, 1852), *Halticus pusillus* (Herrich-Schaeffer, 1835), *Heterocapillus tigrripes* Mulsant et Rey, 1852, *Lopus decolor* (Fallén, 1807), *Macrotylus paykullii* (Fallén, 1807), *Megalocoleus molliculus* (Fallén, 1807), *Orthocephalus brevis* (Panzer, 1798), *Orthocephalus coriaceus* (Fabricius, 1777), *Placochilus seladonicus* (Fallén, 1807), and *Systellonotus triguttatus* (Linnaeus, 1767). Other important habitats are hedges and forest margins, spring fens, and natural deciduous forests. Three species are recorded here for the first time from the Czech Republic: *Charagochilus spiralifer* Kerzhner, 1988, *Heterocordylus cytisi* Josifov, 1958 (both Miridae), and *Dysepicritus rufescens* (A. Costa, 1847) (Anthocoridae); further, *H. cytisi* is a first record for central Europe. Four additional species are recorded for the first time for Moravia: *Acalypta platycheila* (Fieber, 1844) (Tingidae), *Phytocoris* (*Phytocoris*) *hirsutulus* Flor, 1861 (Miridae), *Loricula* (*Loricula*) *ruficeps* (Reuter, 1884) (Microphysidae), and *Elatophilus* (*Elatophilus*) *nigricornis* (Zetterstedt, 1838) (Anthocoridae). In addition, *Ch. weberi* Wagner, 1953 is removed from the list of Slovak fauna while *Ch. spiralifer* is listed from Slovakia for the first time. Altogether 62 of the true bug species (12%) recorded in the Bílé Karpaty PLA fall into the categories defined by the Red List of threatened invertebrates of the Czech Republic. One of them, *Megalotomus junceus* (Scopoli, 1763), was considered extinct prior to its rediscovery in the Bílé Karpaty PLA. Four other species are classified as critically endangered: *Agramma confusum* (Puton, 1879), *Tropidothorax leucopterus* (Goeze, 1778), *Coriomeris scabricornis* (Panzer, 1809), and *Chlorochroa juniperina* (Linnaeus, 1758), while nine are considered endangered: *Gerris asper* (Fieber, 1860), *Macrotylus quadrilineatus* (Schrank, 1785), *Tytthus pygmaeus* (Zetterstedt, 1838), *Peritrechus gracilicornis* Puton, 1877, *Scolopostethus puberulus* Horváth, 1887, *Berytinus striola* (Ferrari, 1874), *Ceraleptus gracilicornis* (Herrich-Schaeffer, 1835), *Sehirus morio* (Linnaeus, 1761), and *Holcostethus sphacelatus* (Fabricius, 1794). Thirty-one species are vulnerable, and seventeen near-threatened. The majority of the heteropteran fauna of the Bílé Karpaty PLA belong to a range of widely-distributed faunistic elements: 100 species (20%) are of Holopalaeartic or Holarctic distribution, 163 species (33%) are Eurosiberian, 108 species (22%) West Palaearctic or West Eurosiberian, 69 species (14%) European, and 57 species (11%) are of Mediterranean origin. Among the Mediterranean species, several are of major zoogeographical importance, reaching their northernmost distribution limits in the Bílé Karpaty: *Haropocera hellenica* Reuter, 1876, *Heterocapillus tigrripes*, *Heterocordylus cytisi*, *Icodema infusca* (Fieber, 1861), *Psallus asthenicus* Seidenstücker, 1966, *P. cruentatus* (Mulsant et Rey, 1852), *Megalotomus junceus*, and *Vilpianus galii* (Wolff, 1802). The suitability of Malaise traps as a method of assessing the heteropteran diversity in a given area is briefly discussed.

Key words. Hemiptera, Heteroptera, faunistics, new records, threatened species, White Carpathians, Moravia, Malaise traps

Introduction

Heteroptera, or true bugs, make up the most diverse group of Hemiptera, with more than 42,300 described species worldwide classified in *ca.* 89 recent families and 7 infraorders. Unlike the phytophagous and terrestrial Sternorrhyncha, Auchenorrhyncha, and Coleorrhyncha, true bugs developed more diverse ways of life and the group includes also aquatic and semi-aquatic developed, oceanic and intertidal species, zoophages and blood-sucking ectoparasites (SCHUH & SLATER 1995, FORERO 2008, HENRY 2009, WEIRAUCH & SCHUH 2011). Some of the heteropteran species are of economic importance, being agricultural pests, plant disease vectors or zoophages used for biocontrol (SCHAEFER & PANIZZI 2000). More rarely, they are nuisance and blood-sucking parasites on humans and livestock (SCHUH & SLATER 1995).

The true bug fauna of the Czech Republic is quite well documented, although the last available check-list, by HOBERLANDT (1977a), is outdated and many papers making additions and corrections to it have been published since. A total of 865 species of Heteroptera is currently known from the Czech Republic, of which 760 occur in Bohemia and 804 in Moravia (Kment, unpublished). Altogether 260 species are included in the Red List of threatened Czech invertebrates, with 20 of them classified as extinct in the whole country, 42 as critically endangered, 96 as endangered, 73 as vulnerable, and 29 as near-threatened (KMENT & VILÍMOVÁ 2005). However, four of the species considered extinct have recently been rediscovered: *Stephanitis pyri* (Fabricius, 1775) (KMENT & VAHALA 2006), *Eurydema fieberi* (Fieber, 1836) (KMENT & JINDRA 2008), *Megalotomus junceus* (Scopoli, 1763) (HRADIL *et al.* 2008), and *Pithanus hrabei* Stehlík, 1952 (LACINA 2010, 2011).

In general terms, faunistic research into the Heteroptera of Moravia (the eastern part of the Czech Republic) once lagged behind that into other groups, e.g. the Coleoptera and Lepidoptera. This also held true for the current Bílé Karpaty Protected Landscape Area and Biosphere Reserve (hereafter abbreviated to PLA) which covers the Czech part of the Bílé Karpaty Mts. [the White Carpathians] extending along the Czech-Slovak border in south-eastern Moravia. Due to its specific geology (largely based on calcareous flysch), relief and hydrology, favourable geographical situation, relatively warm climate and post-glacial history, as well as traditional land use, the Bílé Karpaty PLA represents a biodiversity hot spot in the Czech Republic (see KUČA *et al.* (1992), MACKOVČIN & JATIOVÁ (2002), JONGEPIEROVÁ (2008), and KONVIČKA *et al.* (2012) for detailed information on the natural history of the area). It is particularly famous for its floristically rich semi-natural grasslands, but the fauna of Heteroptera have remained little-known until recently.

The first record of a true bug species from the Bílé Karpaty Mts. was published by SPITZNER (1892) within his list of the Moravian Heteroptera: *Chlorochroa pinicola* (Mulsant et Rey, 1852) from Luhačovice. However, proper heteropterological investigations in this area began only during World War II, when several Czech entomologists (especially F. Gregor sen., A. Hoffer, and V. Lang) collected in the southern parts of the Bílé Karpaty Mts. (in the environs of Javorník, Korytná, and Velká Javořina). Their materials were identified and some interesting records published in a

number of papers by BALTHASAR (1942, 1945), DLABOLA (1943), DOBŠÍK (1950), HOBERLANDT (1942, 1944, 1947), and STEHLÍK (1945a, 1948). After the war, only little collecting was done in the Bílé Karpaty Mts., with the exception of a few collecting trips by the Department of Entomology of the Moravian Museum in Brno (J. L. Stehlík, P. Lauterer, L. Pospíšilová, P. Raus, J. Meduna). Based on their samples, STEHLÍK (1973) published the first record of *Canthophorus impressus* (Horváth, 1880) for Moravia. From 1981 on, Jaroslav L. Stehlík (later with the collaboration of I. Vavřínová and E. Heiss) published a series of comprehensive papers on particular groups of Heteroptera, *Results of the investigation on Hemiptera in Moravia made by the Moravian Museum*, summarizing all the available faunistic data for Moravia. This series completely covered the Pentatomoidea (STEHLÍK 1981, 1983, 1984, 1985, 1986, 1987, 1995), Coreoidea (STEHLÍK 1988, STEHLÍK & VAVŘÍNOVÁ 1989), Lygaeoidea (STEHLÍK & VAVŘÍNOVÁ 1987, 1990, 1997b, 1998a,b), Aradidae (STEHLÍK & HEISS 2000), Tingidae (STEHLÍK 2002), Reduviidae and Nabidae: Prostemmatinae (STEHLÍK & VAVŘÍNOVÁ 1997a). Unfortunately, the material of the remaining groups (Dipsocoromorpha, Nepomorpha, Gerromorpha, Leptopodomorpha, Cimicomorpha: Miridae, Microphysidae, Anthocoridae, Cimicidae, and Nabidae: Nabinae), pooled in the collection of the Moravian Museum, still awaits identification. This phase of the research into the Heteroptera of the Bílé Karpaty Mts. was also reviewed by ROHÁČOVÁ (1992), who also cited records of three species from an unpublished list of Heteroptera from the environs of Luhačovice by K. Čadek, but mainly addressed the localities on the Slovak side of the mountains. NEJEDLÁ (1997) reviewed and mapped the distribution of the family Rhopalidae in the Czech Republic and Slovakia, but included only one original record from the Bílé Karpaty Mts. Based on all published records, 98 species of Heteroptera were known from the Bílé Karpaty Mts. in 1998. Fourteen species were later added by STEHLÍK & HEISS (2000) and STEHLÍK (2002).

An extensive inventory of the Heteroptera in the Bílé Karpaty PLA, originally inspired by Pavel Bezděčka, was gathered by the first author (P. Kment) and his collaborators (I. Malenovský, M. Horsák, M. Omesová, P. Šmarda, and T. Vymyslický) between 1998 and 2007. In recent years, several other collectors (E. Ezer, K. Hradil, P. Komzák, O. Konvička, Z. Malinka, M. Straka, J. Sychra, and J. Vávra) lent invaluable support by kindly providing their records or material for study. In 2007–2010, a further substantial portion of material was obtained by the use of Malaise traps installed by the Department of Entomology, National Museum, Praha. The first published result of such recent work was a species inventory for the Čertoryje National Nature Reserve listing 181 species (KMENT 2001). Some of the more interesting records were included in a series of faunistic contributions (KMENT & BRYJA 2001; BRYJA & KMENT 2002; KMENT & SMÉKAL 2002; KMENT *et al.* 2003, 2005, 2006, 2008; KMENT & MALENOVSKÝ 2004, 2008; ŠPRYŇAR & KMENT 2005; KMENT 2006; KMENT & BRYJA 2006; RIEGER & RABITSCH 2006; WYNIGER & KMENT 2006; HRADIL *et al.* 2008; KMENT *et al.* 2009). A number of the specimens gathered were also utilized in morphological studies by KMENT & VILÍMOVÁ (2010a,b). General accounts of the ongoing investigations were presented by KMENT & MALENOVSKÝ (2004, 2008), LAŠTŮVKA *et al.* (2008), and MALENOVSKÝ & KMENT (2004). KMENT & MALENOVSKÝ (2004) gave a running number of 399 species of Heteroptera known from the Bílé Karpaty PLA.

This paper aims to provide a complete list of species of true bugs recorded in the Bílé Karpaty PLA to date by summarizing all previously published data, excerpting unpublished data available from private or museum collections and, particularly, by evaluating the copious additional material collected in recent years.

Material and methods

The area under study, for the purposes of this contribution, is largely demarcated by the current boundaries of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve, with the addition of the area of its suggested enlargement in the environs of Velká nad Veličkou (KONVIČKA *et al.* 2012). We also include some additional localities situated close to, but outside, the actual administrative boundaries of the Bílé Karpaty PLA, in the environs of Valašské Klobouky, Poteč, Luhačovice, Bánov, Hluk, Blatnička, Blatnice pod Svatým Antonínkem, Lipov, and Petrov; these are characterized by similar natural conditions. However, we omit the territory of the town of Strážnice, situated in the floodplain of the River Morava; although it lies partly within the Bílé Karpaty PLA, its natural characteristics differ from the remainder of the area and, moreover, all previously published records from Strážnice probably refer to localities outside the boundaries of the Bílé Karpaty PLA (e.g. STEHLÍK & VAVŘINOVÁ 1989, KMENT *et al.* 2003, KMENT 2006).

Most of the material evaluated comes from field surveys undertaken in 1998–2011. Terrestrial species were collected mostly by qualitative sampling by sweep net or individual collecting in litter, on and under the bark of trees, on the shores of bodies of water, on the ground in spring fens, etc. A kitchen strainer attached to a handle was used to catch aquatic and semi-aquatic bugs. In some selected sites, semi-quantitative sweeping samples (usually 200 sweep-net strokes per site) were taken to outline the structure of the Heteroptera communities. Pitfall traps, yellow pan traps, and especially Malaise traps, were also used in some localities.

Further data were acquired in the course of museum work and identification of Heteroptera material in the Moravian Museum, Brno, and several other private and institutional collections. The depositories of all material examined are abbreviated in the paper as follows:

ALDC	Adam Lacina, Dačice, Czech Republic
EEZC	Eduard Ezer, Zlín, Czech Republic
JBSC	Josef Bryja, Studenec, Czech Republic
JDKD	Jakob Damgaard, København, Denmark
JSAS	Juan Antonio Sanchez, Instituto Murciano de Investigación y Desarrollo Agrario y Alimentario (IMIDA), La Alberca, Murcia, Spain
JSBC	Jan Sychra, Brno, Czech Republic
JVPC	Jitka Vilímová, Faculty of Science, Charles University, Praha, Czech Republic
KHMC	Karel Hradil, Miletín, Czech Republic
MBFC	Muzeum Beskyd [Beskydy Museum], Frýdek-Místek, Czech Republic
MHBC	Michal Horsák, Brno, Czech Republic
MJBC	Martin Just, Brno, Czech Republic
MMBC	Moravian Museum, Brno, Czech Republic

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MMHC	Marion Mantič, Hlučín, Czech Republic
MSHC	Michal Straka, Hustopeče, Czech Republic
MUBC	Institute of Botany and Zoology, Masaryk University, Brno, Czech Republic
MZLU	Mendel University, Brno, Czech Republic
NMPC	National Museum, Praha, Czech Republic
OBPC	Ondřej Balvín, Praha, Czech Republic
OKZC	Ondřej Konvička, Zlín, Czech Republic
OMOC	Ostravské muzeum [Museum of Ostrava], Ostrava, Czech Republic
PBPC	Petr Bogusch, Pardubice, Czech Republic
PKBC	Petr Komzák, Brno, Czech Republic
PKPC	Petr Kment, deposited in the National Museum, Praha, Czech Republic (the number of specimens examined corresponds to a faunistic database by P. Kment; for common species, only a few voucher specimens serving as a record are usually kept in the collection)
PSBC	Petr Šmarda, Brno, Czech Republic
VMPC	Východočeské muzeum v Pardubicích [Museum of Eastern Bohemia in Pardubice], Pardubice, Czech Republic
VURV	Výzkumný ústav rostlinné výroby [Crop Research Institute], Praha-Ruzyně, Czech Republic
VVKC	Vladimír Vrabec, Krakovany, Czech Republic
ZJPC	Zdeněk Jindra, Praha, Czech Republic
ZMOC	Zdeněk Malinka, Opava, Czech Republic

Unless stated otherwise, all material was identified by Petr Kment. The classification in the paper is based on CASSIS & GROSS (1995, 2002). The nomenclature mainly follows AUKEMA & RIEGER (1995, 1996, 1999, 2001, 2006) and AUKEMA *et al.* (2012), also used to excerpt the information on the distribution of individual species, taking into account further information published later and deriving distribution categories largely from JOSIFOV (1986). In the context of brief general distribution information (provided, for example, in the annotated list of species), Moravia is understood as including the Czech part of Silesia (see KMENT 2009 for details). The conservation status for each species is taken from the Red List of threatened invertebrates of the Czech Republic (KMENT & VILÍMOVÁ 2005). Species not known to be part of the Czech fauna prior to the publication of the Red List (2005) are classified as “Not evaluated”.

The following abbreviations are also used throughout the text: NM – Nature Monument, NNM – National Nature Monument, NNR – National Nature Reserve, NR – Nature Reserve, PLA – Protected Landscape Area (all of these are the various categories and terms specified by the Czech system of legally protected natural areas, Act No. 114/1992 coll.); ap – apterous, br – brachypterous, L(n) – larva (instar number), ma – macropterous, mi – micropterous, sma – submacropterous, spec. – unsexed imago; det. – specimen(s) identified by, observ. – specimen(s) observed, not collected, lgt. – specimen(s) collected by, revid. – identification revised by; Mt – Malaise trap, pt – pitfall trap, ypt – yellow pan trap; CR – critically endangered, EN – endangered, EX – extinct in the Czech Republic, NT – near-threatened, VU – vulnerable (the latter five all categories derived from the Red List of threatened invertebrates of the Czech Republic (KMENT & VILÍMOVÁ 2005).

List of collecting sites

Each entry in the list of collecting sites is arranged as follows: number of locality, name of the nearest village or town, local name of the collecting site or name of the small-scale protected area (reserve) if appropriate, code of the field (in parentheses) in the faunistic and floristic grid mapping system of central Europe (EHRENDORFER & HAMANN 1965, PRUNER & MÍKA 1996, each basic field divided into 16 subfields, see KONVIČKA *et al.* 2011), alternative name(s) of the locality if used on voucher specimen labels in collections or in earlier papers [given in square brackets], GPS coordinates, altitude; and habitat characteristics.

1. Luhačovice, Aloiska spring environs (6872d3), 49°06'08"N 17°45'54"E, 300 m a.s.l.; park.
2. Luhačovice, building of the Bílé Karpaty PLA Management, Nádražní ulice street (6872d3), 49°06'00.3"N 17°45'18.5"E, 250 m a.s.l.; inside of the building.
3. Luhačovice, forest along Štávnické river (6872d3), 49°06'42"N 17°46'15"E, 270 m a.s.l.; deciduous forest (*Acer*, *Fagus*), sifting of moss.
4. Luhačovice, fountain in front of the Fontána II Hotel (6872d3), 49°06'55"N 17°46'15"E, 290 m a.s.l.; unkempt concrete fountain.
5. Luhačovice, Gáborka brook (6872d3), 49°06'25.7"N 17°46'40.8"E, 320 m a.s.l.; stream.
6. Luhačovice, Ještí, E of Gáborka spring (6872d3), 49°06'24"N 17°47'26"E, 450 m a.s.l.; forest margins, slopes with spring fens.
7. Luhačovice, Petrůvka brook near "Na Klenkově" cottage colony (6872d3), 49°07'15"N 17°47'46"E, 320 m a.s.l.; stream.
8. Luhačovice, S slope of Velká kamenná hora hill (6872d3), 49°06'06"N 17°46'22"E, 350–400 m a.s.l.; forest margin.
9. Luhačovice, Štávnické river under the Fontána II Hotel (6872d3), 49°06'57"N, 17°46'08"E, 265 m a.s.l.; river.
10. Luhačovice, U Kamenného kříže crossroad (6872d3), 49°06'02"N 17°47'02"E, 430–440 m a.s.l.; roadside vegetation.
11. Luhačovice (6872d3–6972a2/b1), 250–300 m a.s.l.; details on precise location and habitat unknown.
12. Nevšová, Hranice hill, towards Gáborka brook spring (6872d4), ["hill above the village"], 49°06'28"N 17°49'49"E, 490–500 m a.s.l.; forest path.
13. Petrůvka, small pond on Gáborka brook (6872d4), 49°07'01"N 17°48'56"E, 360 m a.s.l.; small pond in a forest.
14. Petrůvka, U Petrůvky NM (6872d4), 49°06'35"N 17°48'39"E, 400–470 m a.s.l.; mesic meadows, pasture, forest margins; Malaise trap (430 m a.s.l.).
15. Haluzice, Václavský potok brook (6873c2), 49°08'05"N 17°53'21"E, 470 m a.s.l.; spring.
16. Lipová (towards Haluzice), Lipovky forest (6873c2), 49°08'02"N 17°53'11"E, 490–500 m a.s.l.; beech forest, forest margins and clearings.
17. Slavičín, Lukšinka brook (6873c3), 49°06'19"N 17°52'17"E, 380 m a.s.l.; stream.
18. Nevšová, Říka (= Nevšovka) brook in the village (6873c3), 49°06'44"N 17°50'21"E, 420 m a.s.l.; brook.
19. Nevšová, Říka (= Nevšovka) brook upstreams the village (6873c3), 49°07'04"N 17°50'06"E, 440 m a.s.l.; brook.
20. Nevšová, swimming pool on Říka (= Nevšovka) brook upstreams the village (6873c3); 49°07'00"N 17°50'08"E, 430 m a.s.l.; abandoned concrete swimming pool.
21. Vlachovice, Sviborka brook 500 m upstreams the confluence with Vlára river (6873d1), 49°08'13"N 17°55'57"E, 350 m a.s.l.; brook.
22. Vrbětice, Václavský potok brook (6873d3), 49°06'17"N 17°56'12"E, 340 m a.s.l.; stream.
23. Brumov-Bylnice, Bylnice, Hložecké údolí valley (6873d4), 49°06'39"N 17°58'47"E, 450–600 m a.s.l.; fir forest.

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24. Valašské Klobouky, Suchý vrch hill (6874a3), 49°08'95"N 18°01'05"E, 480–490 m a.s.l.; spring fen.
25. Valašské Klobouky, Suchý vrch hill, at transformer station (6874a3), 49°09'18"N 18°00'47"E, 480 m a.s.l.; patch of ruderal vegetation around the transformer station in field of *Trifolium pratense*.
26. Poteč, right-side tributary of Brumovka brook (6874a4), ["brook under the pond at the village"], 49°09'45"N 18°02'31"E, 420 m a.s.l.; brook.
27. Poteč, small pond 1.2 km N of the village (6874a4), 49°09'50"N 18°02'28"E, 430 m a.s.l.; pond and surrounding vegetation.
28. Valašské Klobouky, Brumovka (= Kloboucký potok) brook valley, along railway above the village (6874c1), 49°07'56"N 18°00'54"E, 400 m a.s.l.; forest margin.
29. Valašské Klobouky, Brumovka (= Kloboucký potok) brook valley – SW slopes of Královec hill 1.5 km SSE from town centre (6874c1), ["meadows above the railway"], 49°07'47"N 18°01'03"E, 400–480 m a.s.l.; meadows, spring fens, forest margins.
30. Valašské Klobouky, Brumovská street (6874c1), ["meadow under the railway"], 49°08'06"N 18°00'50"E, 380–400 m a.s.l.; mesic meadows and shrubs.
31. Valašské Klobouky, Dobšená NM (6874c1), 49°07'55"N 18°02'04"E, 525–580 m a.s.l.; mesic meadows, spring fen.
32. Valašské Klobouky, Javorůvky NR (6874c1), 49°08'03"N 18°01'57"E, 510–575 m a.s.l.; mesic to wet meadows, spring fen, forest margins.
33. Valašské Klobouky, Královec hill, between Javorůvky NR, Dobšená NM and Královec lookout tower (6874c1), 49°07'59"N 18°02'01"E, 560–600 m a.s.l.; spruce monoculture, forest glades, vegetation along forest paths.
34. Valašské Klobouky, Na Nivách – 1.3 km SWW from the top of the Královec hill (6874c1), ["Hájkovo prameniště spring fen"], 49°07'48"N 18°01'25"E, 555 m a.s.l.; spring fen, meadows, shrubs and trees, forest road vegetation.
35. Valašské Klobouky, NW slope of Královec hill, between U Rybníků and Javorůvky NR (6874c1), ["along the path from ponds above the railway station towards Javorůvky NR"], 49°08'08"N 18°01'33"E, 450–540 m a.s.l.; spruce forest undergrowth.
36. Valašské Klobouky, Rybník, small church at the road to Poteč (6874c1), 49°08'55"N 18°01'21"E, 400 m a.s.l.; under *Tilia*.
37. Valašské Klobouky, town, Brumovská street, building of ZO ČSOP Kosenka (6874c1), 49°08'18"N 18°00'30"E, 390 m a.s.l.; inside of the building.
38. Valašské Klobouky, U Rybníků – valley of an unnamed brook on NW slopes of Královec hill (6874c1), ["small ponds above railway station"], 49°08'15"N 18°01'16"E, 430–450 m a.s.l.; small ponds with shore vegetation, alder carr.
39. Valašské Klobouky, between Na Nivách and valley of the left-side tributary of Brumovka brook (6874c1/c3), ["along road from Hájkovo prameniště spring fen towards Bílé potoky NR"], 49°07'34"N 18°01'16"E, 390–550 m a.s.l.; vegetation along forest path.
40. Nedašova Lhota, Nedašovka brook valley under Černá hora hill (6874c2), 49°07'33"N 18°02'56"E, 500 m a.s.l.; roadside and streamside vegetation.
41. Nedašova Lhota, Nedašovka brook valley under SW slope of Požár hill (6874c2), 49°08'13"N 18°04'45"E, 550 m a.s.l.; brook.
42. Poteč, Ploščiny NR (6874c2), 49°08'22"N 18°03'42"E, 670–739 m a.s.l.; mesic to dry meadows, pastures, forest margins, forest glades, solitary trees (e.g. *Betula*, *Abies alba*, *Juniperus communis*).
43. Valašské Klobouky, Královec – Ploščiny ridge between Na Královci cottage and Ploščiny NR (6874c2), 49°08'15"N 18°03'13"E, 430–480 m a.s.l.; roadside vegetation, mesic meadows, forest margins.
44. Brumov (part of Brumov-Bylnice), Uhličky (6874c3), ["Kloboucká, mowed meadow at the railway tunnel"], 49°06'16"N 18°01'57"E, 390–400 m a.s.l.; mesic meadows.
45. Návojná, Vrchy hill (6874c3), 49°07'03"N 18°02'13"E, 550–600 m a.s.l.; spruce forest undergrowth, glades.

46. Valašské Klobouky, Bílé potoky NR, brooklet ravine (6874c3), 49°06'55"N 18°01'38"E, 350–500 m a.s.l.; spring fens, brooklet, mesic to wet meadows and pastures, forest margins, forest undergrowth.
47. Valašské Klobouky, Bílé potoky NR, forest (6874c3), 49°07'03"N 18°01'37"E, 380–500 m a.s.l.; roadside vegetation, forest undergrowth.
48. Valašské Klobouky, Bílé potoky NR, meadow (6874c3), 49°07'07"N 18°01'27"E, 350–410 m a.s.l.; mesic meadows and pastures, spring fens, forest margins.
49. Valašské Klobouky, Brumovka (= Kloboucký potok) brook under Bílé potoky NR (6874c3), 49°06'56"N 18°01'22"E, 370 m a.s.l.; brook.
50. Valašské Klobouky, valley of left-side tributary of Brumovka brook SW of Královec hill (6874c3), ["valley of small brook W of the Bílé potoky NR"], 49°07'18"N 18°01'21"E, 380–390 m a.s.l.; brook valley.
51. Nedašov, village (6874c4), 49°06'33"N 18°04'04"E, 410–430 m a.s.l.; ruderal vegetation along brook under the church, trees and shrubs around church, vegetation along the road towards Nedašova Lhota.
52. Nedašov, along road from Nedašov to Jalovcová stráň NR (6874d3), 49°06'07"N 18°05'21"E, 450–600 m a.s.l.; roadside vegetation.
53. Nedašov, Hrušová dolina valley (6874d3), ["pastures between Kaňoury NM and Jalovcová stráň NR"], 49°06'33"N 18°06'20"E, 610–680 m a.s.l.; meadows, pastures, meadow spring fens.
54. Nedašov, Jalovcová stráň NR (6874d3), 49°06'06"N 18°05'35"E, 580–650 m a.s.l.; dry pastures, spring fens, forest margins, large population of *Juniperus communis*.
55. Nedašov, Kaňoury NM (6874d3), 49°06'52"N 18°06'21"E, 610–660 m a.s.l.; dry to mesic meadows, solitary trees and shrubs, forest margins.
56. Nedašov, Kaňúr hill (6874d3), 49°06'23"N 18°06'35"E, 700–750 m a.s.l.; meadows.
57. Nedašov, Lapač, Hrušovka brook under Kaňoury NM (6874d3), 49°06'40"N 18°06'04"E, 550 m a.s.l.; stream.
58. Nedašov, Lapač, margin of small wood near Kaňoury NM (6874d3), 49°06'46"N 18°06'07", 570–590 m a.s.l.; forest margin.
59. Nedašov, meadow E of Jalovcová stráň NR (6874d3), 49°06'08"N 18°06'14", 620–650 m a.s.l.; dry meadow.
60. Nedašova Lhota, environs (6874d3), 49°07'N 18°06'E, 410–590 m a.s.l.; details on precise location and habitat unavailable.
61. Nedašova Lhota, S slope of Maleník hill (6874d3), 49°07'27"N 18°04'59"E, 420–450 m a.s.l.; wet part of S oriented sheep pasture with *Alnus* and *Equisetum telmateia*.
62. Luhačovice, Luhačovická dolina valley (6972a2), 49°05'18"N 17°44'26"E, 230–300 m a.s.l., forest margin, flower-rich meadow on slope.
63. Luhačovice, Serenyi palace (6972a2), 49°05'47.09"N 17°44'51.47"E, 260 m a.s.l.; palace loft.
64. Petrůvka, Kladenka brook valley (6972b2), 49°05'50"N 17°48'53"E, 390 m a.s.l.; alder carr; Malaise trap.
65. Bojkovice (6972d1/d2), 270–350 m a.s.l.; details on precise location of the collecting site and habitat unavailable.
66. Bojkovice, railway station (6972d2), 49°02'09"N 17°47'47"E, 300 m a.s.l.; under *Tilia* sp.
67. Bojkovice, Koménka brook (6972d4), 49°01'11"N 17°48'03"E, 300 m a.s.l.; stream.
68. Bojkovice, small pond on right-side tributary of Koménka brook (6972d4), 49°01'10"N 17°48'04"E, 300 m a.s.l.; small pond.
69. Slavičín, 200 m W of village (6973a1), 49°05'24"N 17°51'55"E, 370–390 m a.s.l.; ruderal roadside vegetation, balks.
70. Hostětín, 1 km NE of village (6973a4), ["Valašské Klobouky, Hostětín"], 49°03'21"N 17°53'28"E, 450 m a.s.l.; grassy undergrowth of deciduous forest with pools.
71. Štítná nad Vláří, Popov, Havránkův potok brook valley (6973b2), 49°05'29"N 17°57'50"E, 360–400 m a.s.l.; forest margins, meadows, forest clearings, streamside vegetation.
72. Pitín (6973c1), 320–380 m a.s.l.; details on precise location of the collecting site and habitat unavailable.
73. Pitín, Olšava rivulet (6973c1), 49°01'41"N 17°52'32"E, 390 m a.s.l.; stream.

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74. Štítná nad Vláří, south-exposed slopes N of the village (6973c2), 49°04'35"N 17°58'58"E, 320–380 m a.s.l.; xerothermic species-rich vegetation on slopes, mixed with young orchards and a pine stand.
75. Pitín, Vlčí potok valley (6973c4), 49°00'55"N 17°53'04"E, 470 m a.s.l.; deciduous forest.
76. Brumov (part of Brumov-Bylnice), Kloboucká street (6974a1), ["Kloboucká, sheep pasture"], 49°05'54"N 18°01'47"E, 350–400 m a.s.l.; dry to mesic sheep pastures, fruit trees.
77. Bylnice (part of Brumov-Bylnice), Na Stráži (6974a1), 49°04'40"N 18°00'30"E, 350–390 m a.s.l.; dry grassland, shrubs.
78. Bylnice (part of Brumov-Bylnice) (6974a1/a3), 300–350 m a.s.l.; details on precise location of the collecting site and habitat unavailable.
79. Brumov (part of Brumov-Bylnice), W slope of Holý vrch hill and Tarandové hill 2.5 km SE of church (6974a2/a4), ["Brumov, Holý vrch, Na Tatrách"], 49°05'04"N 18°04'12"E, 600–750 m a.s.l.; meadows, spring fens.
80. Bylnice (part of Brumov-Bylnice), Bylničky, S slopes of Tarandové hill towards Bylnička brook (6974a2/b1), ["Bylnice, Bylnický potok, Na Tatrách"], 49°04'33"N 18°02'10"E, 360–530 m a.s.l.; streamside vegetation, pastures, dry to mesic meadows, birch stands.
81. Bylnice (part of Brumov-Bylnice), from Vlára river towards Lazy NR (6974a3), 49°03'53"N 18°00'45"E, 300–350 m a.s.l.; roadside vegetation, mesic meadows, forest margin.
82. Bylnice (part of Brumov-Bylnice), Lazy NR and environs (6974a3), 49°03'33"N 18°00'34"E, 380–425 m a.s.l.; mesic to wet meadows, spring fens, forest margins.
83. Bylnice (part of Brumov-Bylnice), railway station environs (6974a3), 49°04'05"N 18°00'53"E, 300 m a.s.l.; ruderal and riverside vegetation.
84. Bylnice (part of Brumov-Bylnice), small pond at a cottage below Lazy NR (6974a3), 350–400 m a.s.l.; pond.
85. Bylnice (part of Brumov-Bylnice), Vlára river at ford near the Bylnice railway station (6974a3), 49°03'57"N 18°00'55"E, 300 m a.s.l.; river.
86. Svätý Štěpán, 0.5 km N of village, left bank of Vlára river, pools at railway (6974a3), 49°03'02"N 18°01'52"E, 300 m a.s.l.; pools, probably old gravel-pit.
87. Sidonie, Sidonie NR (6974a4), 49°03'04"N 18°04'17"E, 390–480 m a.s.l.; montane beech forest; Malaise trap (450 m a.s.l.).
88. Sidonie environs (6974a4/b3/c2/d1), 49°03'N 18°05'E, 355–470 m a.s.l.; forests.
89. Nedašov, Na Kopanicách, brook (6974b1) ["brook under Jalovcová stráň NR"], 49°05'75"N 18°05'36", 450–490 m a.s.l.; stream and streamside vegetation.
90. Nedašov, Na Kopanicách, meadow (6974b1), ["meadow under Jalovcová stráň NR"], 49°05'49"N 18°05'34", 500–580 m a.s.l.; dry meadow.
91. Nedašov, Pod Cigánem NM (6974b1), 49°05'43"N 18°05'26"E, 575–605 m a.s.l.; mesic to wet meadows and pastures, spring fen.
92. Sidonie, Vlárka brook valley above village (6974b3), 49°03'33"N 18°05'30"E, 460–480 m a.s.l.; meadows on slopes, streamside vegetation, alder carr.
93. Svätý Štěpán, Chladný vrch NM (6974c1), 49°01'34"N 18°00'32"E, 595 m a.s.l.; forest spring area, montane beech forest; Malaise trap.
94. Svätý Štěpán, Nadřičí (6974c1), ["first right-side tributary of Vlára river downstreams the village"], 49°02'29"N 18°02'14"E, 300–330 m a.s.l.; broad-leaved forest, vegetation along forest brook, river shore.
95. Svätý Štěpán, Vlára river downstreams the village (6974c1), 49°02'35"N 18°02'11"E, 300 m a.s.l.; river and puddles on its shore.
96. Svätý Štěpán, Vlárský průsmyk pass, Vlára river (6974c1/c2), 49°02'27"N 18°02'20"E, 285 m a.s.l.; river.
97. Svätý Štěpán, Okrouhlá NM (6974c2), 49°02'49"N 18°03'29"E, 580–655 m a.s.l.; old deciduous, predominantly beech forest with scattered *Tilia*, *Ulmus* and *Quercus*.
98. Svätý Štěpán, below quarry downhill of Okrouhlá NM (6974c2), 49°02'19"N 18°03'17"E, 360–400 m a.s.l.; beech forest with scattered oak, hornbeam and old fir trees.
99. Lipov, church (7070d4), 48°54'19.69"N 17°27'42.15"E, 230 m a.s.l.; church belfry.
100. Lipov, Pešunk, slopes around railway viaduct (7070d4), 48°54'40"N 17°28'17"E, 240–280 m a.s.l.; wet meadow, xerothermic pasture with solitary trees and hedges.

101. Hluk, Kobyly hlava NM (7071a3), 48°57'22"N 17°31'31"E, 330–340 m a.s.l.; dry grassland, forest glade, forest margins.
102. Hluk, Babí hora NM (7071a4), 48°57'23"N 17°33'47"E, 320–330 m a.s.l.; fragment of dry grassland, shrubs.
103. Slavkov, village (7071b3), 48°57'07"N 17°36'35"E, 300 m a.s.l.; ornamental vegetation.
104. Blatnička, Milejovské louky meadows (7071c1), 48°56'45"N 17°30'44"E, 270–295 m a.s.l.; dry meadows, reed.
105. Boršice u Blatnice, Boršický potok brook valley (7071c2), ["směr Hluk"], 48°56'46"N 17°34'04"E, 260–280 m a.s.l.; ruderal and streamside vegetation, dry grassland, forest undergrowth.
106. Louka, Hloží NR (7071c3), 48°54'39"N 17°30'26"E, 270–300 m a.s.l.; dry grassland, shrubs.
107. Suchov (7071c4), 350–440 m a.s.l.; details on precise location of the collecting site and habitat unavailable.
108. Horní Němčí, Hornoněmčanský háj forest (7071d1), ["Horní Němčí, *Carici pilosae-Carpinetum*"], 48°55'02"N 17°37'43"E, 380–400 m a.s.l.; oak-hornbeam forest.
109. Horní Němčí, village (7071d1), 48°55'42"N 17°37'40"E, 330–350 m a.s.l.; ruderal and ornamental vegetation.
110. Horní Němčí (7071d1/d2), 320–350 m a.s.l.; details on precise location of the collecting site and habitat unavailable.
111. Horní Němčí, reservoir in village (7071d2), 48°55'39"N 17°37'40"E, 345 m a.s.l.; reservoir and surrounding vegetation.
112. Horní Němčí, right-side tributary of Okluky brook in village (7071d2), 48°55'38"N 17°37'46"E, 350 m a.s.l.; stream.
113. Korytná, Březí (7071d2), 48°55'32"N 17°39'48"E, 400–450 m a.s.l.; pasture, solitary trees and shrubs, forest margins.
114. Horní Němčí, between village and Drahy NR (7071d2/d4), 48°55'31"N 17°38'01"E, 350–430 m a.s.l.; roadside vegetation.
115. Korytná (7071d2–7072c1), 300–400 m a.s.l.; details on precise location of the collecting site and habitat unavailable.
116. Suchov, Kazivec brook valley (7071d3), 48°54'14"N 17°36'57"E, 480–550 m a.s.l.; mesic to wet meadows, brookside vegetation.
117. Horní Němčí, Drahy NR (7071d4), 48°55'20"N 17°38'13"E, 380–510 m a.s.l.; dry grassland, meadows and pastures, spring fens, solitary trees and shrubs, orchards.
118. Horní Němčí, Drahy NR environs (7071d4), ["Horní Němčí, Hornoněmčanský háj"], 48°55'13"N 17°38'46"E, 400–520 m a.s.l.; species-rich meadows, spring fens, hedges with shrubs, forest margins, tall herb vegetation.
119. Horní Němčí, Horní kopec hill, along road to Strání (7071d4), 48°55'15"N 17°39'00"E, 470–590 m a.s.l.; roadside vegetation, forest margin.
120. Horní Němčí, Uvezené NM (7071d4), 48°54'38"N 17°39'00"E, 490–570 m a.s.l.; deciduous oak-hornbeam forest (*Carici pilosae-Carpinetum*).
121. Horní Němčí, Vinohrádky (7071d4), ["pasture above Drahy NR"], 48°55'19"N 17°38'35"E, 430–500 m a.s.l.; intensively used cattle pasture.
122. Slavkov, Kazivec brook valley, former Kolo NM (7071d4), 48°54'07"N 17°37'17"E, 490–500 m a.s.l.; brook, wet meadows.
123. Horní Němčí, Lesná hill (7071d4–7171b2), 48°53'54"N 17°38'53"E, 550–690 m a.s.l.; meadows and pastures, solitary shrubs and trees, forest margins and clearings.
124. Slavkov, forest below Dolnoněmčanské louky NR (7071d4–7171b2), 48°54'00"N 17°37'43"E, 500–550 m a.s.l.; forest path and clearing.
125. Bánov, Skalky hill (7072a2), 48°58'52"N 17°44'34"E, 350–380 m a.s.l.; ruderal vegetation, fields, dry grassland, shrubs.
126. Komňa, church (7072b2), 48°59'45.87"N 17°47'55.35"E, 350 m a.s.l.; church loft.
127. Komňa environs (7072b2), 350–400 m a.s.l.; details on precise location of the collecting site and habitat unavailable.
128. Komňa, Lom Rasová NM (7072b2), 48°58'34"N 17°48'42"E, 540–570 m a.s.l.; abandoned sandstone quarry with pool, dry grassland, spring fen, solitary trees and shrubs.

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129. Komňa, Nový Dvůr (7072b2), 48°58'43"N 17°48'15"E, 480–500 m a.s.l.; forest margins, meadow, roadside vegetation.
130. Komňa, Nový Dvůr, forests around Lom Rasová NM (7072b2), 48°58'33"N 17°48'50"E, 550 m a.s.l.; undergrowth of spruce forest.
131. Lopeník, Nivnička brook (7072b3), 48°57'17"N 17°46'48"E, 570 m a.s.l.; spring and stream.
132. Starý Hrozenkov, Bartoňové, valley of a left-side tributary of Krátkovský potok brook 1.5 km NE of the Mikulčín vrch Mt. (7072b4), 48°57'18" 17°49'18"E, 500 m a.s.l.; forest.
133. Vápenice, Trstná brook valley (7072b4), 48°58'30"N 17°49'37"E, 430–500 m a.s.l.; spruce forest monoculture, forest glades, streamside vegetation.
134. Korytná, Lubná pond (7072c1), 48°56'48"N 17°40'51"E, 320 m a.s.l.; pond, shore vegetation.
135. Korytná, village (7072c1), 48°56'27"N 17°39'54"E, 290–300 m a.s.l.; ornamental gardens.
136. Březová, Cestiska NM (7072c2), 48°55'44"N 17°43'49"E, 480–510 m a.s.l.; xerothermic species-rich grassland on a slope with trees and shrubs (e.g. *Juniperus communis*, *Pinus sylvestris*).
137. Březová, Kalábová NM (7072c2), 48°56'22"N 17°44'38"E, 500–550 m a.s.l.; spring fen with tufa formation.
138. Březová, spring fen 600 m SE of Studený vrch hill (7072c2), 48°56'13.7"N 17°44'15.6", 535 m a.s.l., meadow spring fen.
139. Korytná, left-side tributary of Hradecký járek brook 1.2 km SW of Studený vrch hilltop (7072c2), 48°56'12"N 17°43'04"E, 520 m a.s.l.; forest.
140. Korytná, valley N of Nové louky NM (7072c3), 48°55'22"N 17°40'31"E, 500 m a.s.l.; forest.
141. Strání, Hrnčárky NM (7072c3), 48°54'35"N 17°40'40"E, 450–480 m a.s.l.; spring fen, mesic meadow.
142. Strání, Klanečnice brook valley above Žabka reservoir (7072c3); 48°54'17"N 17°40'13"E, 450–500 m a.s.l.; stream, streamside and roadside vegetation, deciduous forest undergrowth.
143. Strání, Klanečnice brook valley between village and Žabka reservoir (7072c3), 48°54'33"N 17°41'12"E, 410–440 m a.s.l.; roadside and streamside vegetation, field margins.
144. Strání, Obecnice hill (7072c3), 48°54'51"N 17°40'55"E, 530–550 m a.s.l.; dry, intensively used sheep pasture at transmission tower.
145. Strání, Obecnice hill, S slope along the road Slavkov – Strání (7072c3), 48°54'41"N 17°40'25"E, 520–550 m a.s.l.; roadside vegetation.
146. Strání, Obecnice hill, S slope between the road Slavkov – Strání and Klanečnice brook (7072c3), 48°54'40"N 17°40'35"E, 430–510 m a.s.l.; xerothermic grassland and shrub vegetation.
147. Strání, village (7072c3), 48°54'15"N 17°42'28"E, 400–420 m a.s.l.; ornamental vegetation, brook.
148. Strání, Žabka reservoir (7072c3), 48°54'24"N 17°40'25"E, 440–450 m a.s.l.; reservoir, muddy shore, disturbed wetland vegetation on reservoir shores.
149. Strání (7072c3/c4–7172a1/a2), 360–450 m a.s.l.; details on precise location of the collecting site and habitat unavailable.
150. Strání, Důbrava hill (7072c4), 48°55'05"N 17°43'29"E, 540–550 m a.s.l., beech forest glade.
151. Březová, NE slope of Nová hora hill, between Janáčkův pramen spring and the top (7072c4–7172a2), 48°53'57.9"N 17°44'25.4"E, 430–550 m a.s.l.; forest margin, slope spring areas.
152. Lopeník (7072d1), 450–700 m a.s.l.; environs of the village.
153. Lopeník, Mechnáč, along road to Bystřice pod Lopeníkem (7072d1), 48°56'58"N 17°46'59"E, 570 m a.s.l.; roadside vegetation.
154. Lopeník, Od Březovska (7072d1), ["Lopeník, Březovská cottage"], 48°56'22"N 17°45'32"E, 490 m a.s.l., at light.
155. Lopeník, U Zvonice NM (7072d1), 48°56'25"N 17°47'12"E, 630–670 m a.s.l.; mesic to wet meadows, spring fens, solitary trees and shrubs.
156. Lopeník, Hrubár brook valley (7072d2), ["Lopenické sedlo saddle, valley of small brook flowing towards Lopeník", "valley of small brook below Hrubý Mechnáč", "puddles on road against Hrubý Mechnáč"], 48°56'28"N 17°47'50"E, 620–670 m a.s.l.; brook and surrounding trees.

157. Lopeník, Hrubý Mechnáč (7072d2), 48°56'25"N 17°47'49"E, 645 m; spring fen with tufa formation.
158. Lopeník, Lopenické Bošačky (7072d2), ["Lopeník – Bošačky"], 48°55'37"N 17°48'20"E, 500–600 m a.s.l.; disused pasture with *Juniperus communis* and *Betula pendula*.
159. Lopeník, Lopenické sedlo saddle (7072d2), 48°56'13"N 17°48'04"E, 700–720 m a.s.l.; cattle pasture, spring fen, solitary trees and shrubs.
160. Lopeník, Mikulčin vrch hill (7072d2), 48°56'40"N 17°48'26"E, 700–790 m a.s.l.; beech forest, spruce monoculture, forest margins and forest glade.
161. Vyškovec, Vyškovecké Bošačky, W slope of Kykula hill (7072d2), 48°55'39"N 17°49'41"E, 500–550 m a.s.l.; disused pasture.
162. Březová, Velký Lopeník Mt., 100 m NNW the top (7072d3), 48°55'10"N 17°46'50.6"E; 870 m a.s.l.; old pasture beech forest.
163. Žitková (7073a1/a2/a4), 400–600 m a.s.l.; environs of the village.
164. Žitková, Hutě NR (7073a2), 48°59'24"N 17°54'21"E, 460 m a.s.l.; meadow spring area, mesic *Arrhenatherum* meadow; Malaise trap.
165. Žitková, Skaliči (7073a2), 48°59'26"N 17°52'51"E, 530–600 m a.s.l.; beech forest with admixture of other deciduous trees and big boulders covered with mosses.
166. Žitková, village (7073a2), 48°58'51"N 17°52'53"E, 570–600 m a.s.l.; roadside vegetation.
167. Starý Hrozenkov, Hrozenkovské terasy (7073a3), 48°58'15"N 17°51'51"E, 470–550 m a.s.l.; old apple orchard grazed by cattle, shrubs, disturbed spring fens.
168. Starý Hrozenkov, Lozky (1.5 km NW village) (7073a3), 48°58'30"N 17°50'45"E, 420 m a.s.l.; meadow slope spring area, small brook, pastures.
169. Starý Hrozenkov, Skalka (= Hrozenkovský lom) quarry (7073a3), 48°58'22"N 17°52'12"E, 550–580 m a.s.l.; dry grassland, forest margins, dry to wet ruderal vegetation in abandoned basalt quarry.
170. Vápenice, V Krátkých (7073a3), 48°58'09"N 17°50'16"E, 400–450 m a.s.l.; village, roadside vegetation and trees, meadows, field margins.
171. Vápenice, V Krátkých, confluence of Krátkovský potok brook and Trstná brook (7073a3), 48°58'03"N 17°50'13"E, 420 m a.s.l.; streamside vegetation.
172. Starý Hrozenkov, village (7073a3), 48°58'02"N 17°51'43"E, 380 m a.s.l.; roadside vegetation.
173. Starý Hrozenkov (7073a3/a4), 370–440 m a.s.l.; details on precise location of the collecting site and habitat unavailable.
174. Vyškovec, E slope of Vyškovec hill (7073c1), 48°56'36"N 17°50'32"E, 550–600 m a.s.l.; meadow with spring fen and hypocrenon.
175. Vyškovec, Hřibovňa hill, along road to Vyškovecké Bošačky (7073c1), 48°55'56"N 17°50'17"E, 600–650 m a.s.l.; beech forest undergrowth.
176. Vyškovec, Pod Hřibovňou NM (7073c1), 48°55'58"N 17°50'43"E, 550–640 m a.s.l.; mesic meadows and pastures, forest margins.
177. Vyškovec, Ve Vlčí NR (7073c1), 48°55'46"N 17°51'25"E, 600–700 m a.s.l.; dry to mesic meadows, forest margins, small woods.
178. Vyškovec, Vyškovec Mt. (7073c1), 48°56'43"N 17°50'01"E, 700–760 m a.s.l.; roadside vegetation.
179. Vyškovec, Vyškovecké Bošačky (7073c1), ["U Kafků"], 48°55'52"N 17°49'55"E, 550 m a.s.l.; dry cattle pasture.
180. Vyškovec, Vyškovecké Bošačky (7073c1), ["U Kafků"], 48°55'52"N 17°49'55"E, 550 m a.s.l.; mesic meadows, orchard.
181. Lopeník, Velký Lopeník Mt. (7073d3), 48°55'21"N 17°46'57"E, 860 m a.s.l.; forest margins along road on the ridge.
182. Petrov (7169b1), ["Pavlov u Radějova"], 190 m a.s.l.; details on precise location of the collecting site and habitat unavailable.
183. Petrov, small reservoir on Radějovka brook at railway station (7169b1), 48°52'47"N 17°16'33"E, 175 m a.s.l.; reservoir.
184. Petrov, village (7169b1), 48°52'53"N 17°16'35"E, 175 m a.s.l.; ornamental vegetation.
185. Petrov, Chorvátky, along Radějovka brook and field road towards Staré hory hill (7169b1/b3), 48°52'26"N 17°16'55"E, 175–210 m a.s.l.; streamside and roadside ruderal vegetation.

True bugs (Hemiptera: Heteroptera)

186. Petrov, Staré hory hill (7169b3), 48°51'41"N 17°17'56"E, 220–260 m a.s.l.; vineyards, field margins.
187. Sudoměřice, Sudoměřický potok brook W of Staré hory hill (7169b3), 48°51'41"N 17°16'38"E, 210 m a.s.l.; streamside vegetation.
188. Radějov, Žerotín NM (7169b4), 48°51'44"N 17°19'34"E, 290–320 m a.s.l.; dry grassland, open thermophilous oak forest, solitary trees and shrubs, spring fen, fields; Malaise trap (48°51'44"N 17°19'42"E, 304 m a.s.l.).
189. Radějov, Holý vrch hill (7169b4/d2–7170a3/c1), 48°51'02"N 17°20'00"E, 330–380 m a.s.l.; meadows, tree nursery, forest and forest margins.
190. Radějov, Mlýnky reservoir (7169d2), 48°50'35"N 17°18'31"E, 250 m a.s.l.; reservoir.
191. Sudoměřice, Mlýnky, Sudoměřický potok brook (7169d2), 48°50'40"N 17°19'33"E, 270 m a.s.l.; brook.
192. Kněždub, village (7170a2), 48°53'14"N 17°23'57"E, 185 m a.s.l.; under *Tilia* sp.
193. Radějov (7170a3), 230–250 m a.s.l.; details on precise location of the collecting site and habitat unavailable.
194. Radějov, village (7170a3), 48°51'43"N 17°20'25"E; 230 m a.s.l.; ornamental vegetation, mostly in church garden.
195. Radějov, Dolní Mlýn (7170a3/c1), ["cottage colony under Veselka hill"], 48°51'05"N 17°21'35"E, 260–300 m a.s.l.; cottage colony, roadside vegetation, artificial reservoir (swimming pool).
196. Kněždub, Kejda pond (7170a4), 48°52'04"N 17°24'31"E, 320 m a.s.l.; pond with muddy banks, surrounding vegetation.
197. Kněždub, Kněždubský háj forest (7170a4), ["Šumárník hill"], 48°52'11"N 17°24'29"E, 270–350 m a.s.l.; oak and hornbeam forest, xerothermic forest margins.
198. Kněždub, Radějovka brook valley below Čertoryje NNR between Kejda pond and Lučina reservoir (7170a4), 48°51'57"N 17°24'16"E, 300–350 m a.s.l.; roadside and ornamental vegetation and trees (e.g. *Pinus sylvestris*, *Picea abies*, *Larix decidua*, *Fraxinus*, *Populus*) in a cottage colony.
199. Tvarožná Lhota, Horní Mlýn, Lučina reservoir (7170a4), 48°51'46"N 17°23'45"E, 300 m a.s.l.; reservoir (especially its inflow section, changed in 2004 to a separate pool), shrubs and trees, alder carr nitrophilous vegetation along brook and reservoir, meadow.
200. Tvarožná Lhota, Járkovec brook (7170a4), 48°51'41"N 17°23'52"E, 300 m a.s.l.; stream.
201. Tvarožná Lhota, Járkovec brook valley below Čertoryje NNR (7170a4), 48°51'32"N 17°24'10"E, 310–330 m a.s.l.; mesic meadow, sheep pasture, forest margin, roadside vegetation.
202. Kněždub, Čertoryje NNR (7170a4/b3/c2/d1), 48°51'18"N 17°24'44"E, 320–443 m a.s.l.; dry to wet meadows, spring fens, solitary trees and shrubs, forest margins.
203. Hrubá Vrbka, Rošt'ovica reservoir (7170b2), 48°53'14"N 17°27'56"E, 240 m a.s.l.; reservoir.
204. Kněždub, Čertoryje NNR, Radějovka brook (7170b3), 48°51'38"N 17°25'43"E, 350–360 m a.s.l.; stream and adjacent pool; Malaise trap (48°51'31"N 17°25'50"E, 360 m a.s.l.).
205. Malá Vrbka, between village and Výzkum hill (7170b3), 48°52'07"N 17°26'58"E, 280–430 m a.s.l.; thermophilous roadside vegetation, solitary trees and shrubs.
206. Malá Vrbka, village (7170b3), 48°52'09"N 17°27'33"E, 280 m a.s.l.; ornamental vegetation.
207. Malá Vrbka, Vojšické louky meadows (7170b3), 48°51'38"N 17°26'03"E, 360–420 m a.s.l.; mesic to dry meadows.
208. Malá Vrbka, Výzkum hill (7170b3), 48°52'03"N 17°26'27"E, 350–430 m a.s.l., restored grassland (former arable land resown with a regional species-rich seed mixture, see JONGEPIEROVÁ *et al.* 2008).
209. Malá Vrbka, Výzkum hill, 200 m NW of the top (7170b3), 48°52'12"N 17°26'09"E, 430 m a.s.l.; deciduous forest.
210. Malá Vrbka, Výzkum hill, 300–400 m E of the top (7170b3), 48°52'06"N 17°26'33"E, 380–420 m a.s.l.; thermophilous deciduous forest, forest undergrowth and forest margin with shrubs.
211. Hrubá Vrbka, football ground (7170b4), 48°52'07"N 17°28'08"E, 260 m a.s.l.; ruderal vegetation, *Populus* trees.
212. Hrubá Vrbka, village (7170b4), 48°52'19"N 17°28'41"E, 250–260 m a.s.l.; on walls of buildings, roadside vegetation, pile of logs.

213. Kuželov, right-side spring brook of Malanský potok brook (7170b4), 48°51'22"N 17°28'18"E, 330 m a.s.l.; streamside vegetation.
214. Radějov, Pusté deergame enclosure, Měsíční údolí valley (= Mandát brook valley) (7170c1) [partly as "Radějov, Kouty, Setý háj" and "Pusté deergame enclosure, along the road from Radějov"], 48°50'28"N 17°20'54"E, 280–370 m a.s.l.; oak-hornbeam forest, forest margins, roadside and streamside vegetation, alder carr, xerothermic pasture and meadow.
215. Radějov, Veselka hill (7170c1/c2), 48°50'31"N 17°22'38"E, 300–495 m a.s.l.; oak and hornbeam forest.
216. Radějov, Pusté deergame enclosure, small pond on left-side tributary of Mandát brook below Větrová hill (7170c1/c3), 48°49'36"N 17°21'58"E, 350–400 m a.s.l.; small pond.
217. Radějov, Pusté deergame enclosure, Kútky NR (7170c2), 48°49'58"N 17°23'13"E, 350–480 m a.s.l.; mesic meadows grazed by fallow deers, spring fens; Malaise trap (48°50'05"N 17°23'05"E, 415 m a.s.l.).
218. Radějov, Pusté deergame enclosure, Mandát brook valley below Kútky NR (7170c2), 48°49'43"N 17°22'47"E, 350 m a.s.l.; streamside vegetation, forest margin; Malaise trap.
219. Radějov, Pusté deergame enclosure, small pond on Mandát brook below Kútky NR (7170c2), 48°49'43"N 17°22'50"E; 360 m a.s.l.; small pond.
220. Velká nad Veličkou (7171a1), 290–310 m a.s.l.; details on precise location of the collecting site and habitat unavailable.
221. Velká nad Veličkou, below Zahrady pod Hájem NNR (7171a1), 48°53'27"N 17°31'31"E, 300–330 m a.s.l.; ruderal and roadside vegetation, trees along small brook (*Salix* spp., *Populus* spp.).
222. Velká nad Veličkou, village (7171a1), 48°52'50"N 17°30'51"E, 290–310 m a.s.l.; lawns and ornamental vegetation, environs of railway station and church.
223. Velká nad Veličkou, village, old cemetery (7171a1), 48°53'22"N 17°31'28"E, 300 m a.s.l.; ornamental vegetation, lawn.
224. Velká nad Veličkou, village, Velička river above the weir (7171a1), 48°52'51"N 17°31'05"E, 290 m a.s.l.; river and riverside vegetation.
225. Velká nad Veličkou, Zahrady pod Hájem NNR (7171a1/a2), 48°52'58"N 17°31'52"E, 300–480 m a.s.l.; dry grassland, meadows, orchards, small fields, solitary trees (various deciduous trees, *Pinus sylvestris*, *Larix decidua*) and shrubs, forest margins; Malaise trap (7171a1, 48°53'04"N 17°31'59"E, 385 m a.s.l.).
226. Suchov, Suchovské Mlýny (7171a2), ["U Baladů"], 48°53'08"N 17°34'24"E, 380–400 m a.s.l.; dry sheep pasture.
227. Suchov, Suchovské Mlýny (7171a2), ["U Baladů"], 48°53'03"N 17°34'16"E, 360–380 m a.s.l.; mesic meadow, forest margin.
228. Suchov, Trnovský Mlýn (7171a2), ["Ploštiny"], 48°53'44"N 17°34'46"E, 400–440 m a.s.l.; dry sheep pasture.
229. Suchov, Trnovský Mlýn (7171a2), ["Ploštiny"], 48°53'44"N 17°34'46"E, 450 m a.s.l.; mesic meadow.
230. Suchov, Trnovský Mlýn, along road to Suchovské Mlýny (7171a2), 48°53'21"N 17°34'35"E, 370–390 m a.s.l.; roadside vegetation.
231. Velká nad Veličkou, Háj hill (7171a2), 48°53'27"N 17°32'56"E, 500–573 m a.s.l.; forest undergrowth along paths.
232. Javorník, Jazevčí NNR (7171a2/a4), 48°52'19"N 17°33'42"E, 340–475 m a.s.l.; mesic to dry meadows, spring fens, solitary trees and shrubs, forest margins; Malaise trap (48°52'03"N 17°33'24"E, 415 m a.s.l.).
233. Javorník, towards Suchovské Mlýny, Velička river valley between the villages (7171a2/a4), 48°52'25"N 17°33'40"E, 320–360 m a.s.l.; riverside and roadside vegetation, shrubs and trees.
234. Javorník (7171a3), 320–350 m a.s.l.; details on precise location of the collecting site and habitat unavailable.
235. Javorník, loampit W of village (proposed as Javorník-hliník NM) (7171a3), 48°51'43"N 17°30'59"E, 350–390 m a.s.l.; abandoned loampit, dry grassland, spring fen, ruderal vegetation.
236. Javorník, Nad Vápenkou NM (7171a3), 48°51'40"N 17°31'19"E, 360 m a.s.l.; dry grassland, shrubs.

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237. Javorník, railway station (7171a3), 48°51'37"N 17°31'13"E, 365 m a.s.l.; xerothermic vegetation on railway embankment slopes, drainage ditches.
238. Javorník, SW slopes of Háj hill (7171a3), ["Javorník, kóta 398 m a.s.l."], 48°52'06"N 17°32'10"E, 260–300 m a.s.l.; dry grassland, meadows.
239. Javorník, village (7171a3), 48°51'51"N 17°31'55"E, 310–320 m a.s.l.; streamside, ruderal and ornamental vegetation.
240. Velká nad Veličkou, towards Javorník (7171a3), 48°52'22"N 17°31'58"E, 330–390 m a.s.l.; meadows.
241. Javorník, Jazevčí NNR, left-side tributary of Velička river (7171a4), 48°52'12"N 17°33'55"E, 360 m a.s.l.; brook, forest margin; Malaise trap.
242. Javorník, Petruchovy Mlýny (7171a4), ["Molvý"], 48°52'00"N 17°33'07"E, 370 m a.s.l.; cattle pasture.
243. Javorník, Petruchovy Mlýny (7171a4), ["Molvý"], 48°52'00"N 17°33'07"E, 370 m a.s.l.; dry to mesic meadows.
244. Javorník, Petruchovy Mlýny (7171a4), 48°52'11"N 17°32'50"E, 330 m a.s.l.; sawmill (pile of logs).
245. Nová Lhota, Fojtické Mlýny (7171b1), ["Nová Lhota, Fojtičky mill"], 48°52'44"N 17°36'32"E, 440–480 m a.s.l.; dry meadows, streamside vegetation.
246. Nová Lhota, Hryzlácké Mlýny, valley of right-side tributary of Velička river (7171b1), 48°53'10"N 17°36'08"E, 450 m a.s.l.; mesic herbaceous fringe, mesic *Arrhenatherum* meadow; Malaise trap.
247. Nová Lhota, Vápenky, Porážky NNR (7171b1/b2), 48°53'08"N 17°37'24"E, 550–640 m a.s.l.; meadows, forest margins.
248. Nová Lhota, Vápenky (7171b1/b2/b3/b4), 470 m a.s.l.; details on the precise location of the collecting site and habitat unknown.
249. Nová Lhota, Podšíročné Mlýny (7171b1/b3), 48°52'32"N 17°36'40"E, 420–430 m a.s.l.; details on the precise location of the collecting site and habitat unknown.
250. Slavkov, Dolnoněmčanské louky NR (7171b2), 48°53'52"N 17°38'01"E, 520–650 m a.s.l.; meadows.
251. Nová Lhota, Vápenky, village (7171b2/b4), 48°52'31"N 17°38'05"E, 460–470 m a.s.l.; roadside vegetation.
252. Nová Lhota, Vápenky, left-side tributary of Velička river (7171b3), 48°52'16"N 17°36'58"E, 435 m a.s.l.; alluvium with shrubs; Malaise trap.
253. Nová Lhota, Vápenky, Velička brook valley towards Velká Javořina Mt, below Hubertova bouda hut (7171b4), 48°52'04"N 17°38'43"E, 470–550 m a.s.l.; streamside vegetation, beech forest.
254. Nová Lhota, Vápenky, Velička brook valley towards Velká Javořina Mt, above Hubertova bouda hut (7171b4–7172a3), 48°51'41"N 17°40'00"E, 550–830 m a.s.l.; streamside vegetation, beech forest.
255. Nová Lhota, Vápenky / Strání, Mt. Velká Javořina (7171b4–7172a3), 470–970 m a.s.l.; details on the precise location of the collecting site and habitat unknown.
256. Javorník, Machová NR, Rybnický potok brook N of Machová hill (7171c1), 48°49'59"N 17°32'05"E, 400 m a.s.l.; alluvium; Malaise trap.
257. Javorník, Machová NR, Rybnický potok brook NW of Machová hill (7171c1), 48°50'04"N 17°31'29"E, 370 m a.s.l.; brook.
258. Javorník, Výzkum hill – W and SW slopes (7171c1), 48°50'15"N 17°32'04"E, 460–500 m a.s.l.; meadows, shrubs.
259. Javorník, Machová NR (7171c1/c2/c3), 48°49'47"N 17°31'56"E, 380–575 m a.s.l.; meadows, spring fens, solitary trees and shrubs, forest margins; Malaise trap (2007 – 7171c3, 48°49'21"N 17°31'20"E, 445 m a.s.l., meadow, forest margin; 2010 – 7171c1, 48°49'37"N 17°31'41"E, 460 m a.s.l., meadow).
260. Javorník, Machová NR, Rybnický potok brook E of Machová hill (7171c2), 48°49'41"N 17°32'32"E, 425 m a.s.l.; alluvium of forest brook, marshes; Malaise trap.
261. Javorník, Filipovské údolí valley (7171c2), ["Filipov. Dol."], 48°50'33"N 17°34'11"E, 370–470 m a.s.l.; probably on Hrubý potok brook.

262. Javorník, towards Vrbovce, Teplica brook at border between the Czech Republic and Slovakia (7171c3), 48°49'11.5"N 17°30'38.7"E, 345 m a.s.l.; brook.
263. Strání, above Záhumenice NM (7172a1), 48°53'40"N 17°40'42"E, 530–550 m a.s.l.; meadow.
264. Strání, Mechnáčky NM (7172a1), 48°52'58"N 17°42'16"E, 480–510 m a.s.l.; spring fen with small pools.
265. Strání, Záhumenice (7172a1), 48°53'39"N 17°41'24"E, 470–510 m a.s.l.; cattle pasture.
266. Strání, Záhumenice NM (7172a1), 48°53'40"N 17°41'09"E, 460–530 m a.s.l.; mesic to wet meadows, forest margins, small woods; Malaise trap (48°53'48"N 17°41'12"E, 460 m a.s.l.).
267. Strání, Nová hora hill, above Nová hora NR (7172a2). 48°53'40"N 17°43'50"E, 500–550 m a.s.l.; field.
268. Strání, Nová hora NR (7172a2), 48°53'23"N 17°43'34"E, 400–490 m a.s.l.; mesic meadows, forest margins.
269. Strání, Javorina NNR (7172a3), 48°51'32"N 17°40'33"E, 830–900 m a.s.l.; beech and ravine forests, forest glades.
270. Strání, Javorina NNR (7172a3), 48°51'32"N 17°40'33"E, 900–970 m a.s.l.; montane meadow, forest margins; Malaise trap (48°51'23"N 17°40'09"E, 935 m a.s.l.).

Annotated list of species

The individual species are listed in descending order from infraorders to families (as in CASSIS & GROSS (1995, 2002) and, within each family, alphabetically. For previously unpublished records, all material examined for each species is given with individual records ordered with respect to the number of the collecting site. These records are structured as follows: name of the nearby village or town and shortened local name of the place, number of the collecting site as given in the list of collecting sites (in parentheses), date, details of habitat or host plant where appropriate, collecting method (if other than sweeping or individual collecting), number of specimens (with information on pterygopolymorphism in parentheses), name of collector(s), name of the person who identified or revised the material (if other than Petr Kment), and abbreviation of the collection in which the voucher material is deposited (in parentheses). Previously published records from the Bílé Karpaty PLA are cited only with the name of the nearby village and town, local name of the place and the number of the collecting site (in parentheses); further details can usually be found in the corresponding references. For some records, the locality could not be precisely placed (e.g. due to insufficient data on labels or in original papers) and is associated instead with the code of the corresponding field in the central European grid for mapping flora and fauna (EHRENDORFER & HAMANN 1965, PRUNER & MÍKA 1996). For a few rare species or species with inadequately known distribution in the Czech Republic, additional records available from Moravia or Bohemia (i.e. from outside of the Bílé Karpaty PLA) are given, associated with the field codes in the same grid as well.

Brief summary information on the distribution and frequency in the Bílé Karpaty PLA, general distribution (zoogeographical element), biology and habitat (feeding and ecological requirements, particularly with respect to species' occurrence in Moravia), and national Red List status are provided for each species. Additional comments concerning recent nomenclatorial changes, taxonomic status, or distribution in Moravia are given for some of them.

True bugs (Hemiptera: Heteroptera)

Infraorder DIPSOCOROMORPHA

Family CERATOCOMBIDAE

Ceratocombus (Ceratocombus) coleopratus (Zetterstedt, 1819)

Material examined. Svatý Štěpán, Chladný vrch NM (93), 16.vi.–4.vii.2010, Mt, 1 ♀ (ma), P. Chvojka & J. Macek lgt. (NMPC). Žitková, Hutě NR (164), 19.vi.–11.vii.2007, Mt, 3 ♀♀ (ma), 11.–31.vii.2007, Mt, 1 ♀ (ma), 12.ix.–2.x.2007, Mt, 1 ♀ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Radějov, Mandát brook valley below Kútky NR (218), 26.vi.–15.vii.2008, Mt, 1 ♀ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 5.–24.viii.2009, Mt, 1 ♀ (ma), 24.viii.–14.ix.2009, Mt, 2 ♀♀ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♂ (br), I. Malenovský lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 15.vii.–4.viii.2009, Mt, 1 ♀ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread throughout the area but insufficiently documented. All specimens but one were macropterous, collected into Malaise traps. **General distribution:** Eurosiberian. **Biology and habitat:** Zoophagous. Epigeic, living in moss, plant litter (e.g. fallen leaves and needles, old grass) and decaying wood in moist to dry habitats, in open conditions as well as in forests. Widespread, not rare, but only seldom collected for its minute size and hidden way of life (WACHMANN *et al.* 2006). **Red List status:** –.

Comments. So far reported for Moravia only from three localities: Lednice (Horní les floodplain forest, 7166) (KŘÍSTEK & DOBŠÍK 1985), Hukvaldy (deergame park, 6375) (KMENT & BRYJA 2001), and Budkovice (Budkovické skály rocks, 6964) (BRYJA *et al.* 2002).

Infraorder NEPOMORPHA

Family NEPIDAE

Nepa cinerea Linnaeus, 1758

Material examined. Slavičín, Lukšinka stream (17), 4.ix.2010, 1 spec., M. Straka lgt. et det. (MSHC). Nevšová, swimming pool (20), 6.viii.1999, 1 ♂, P. Kment lgt. (PKPC). Poteč, pond (27), 21.v.1999, 1 ♂, M. Horsák & P. Kment lgt., 1.vii.1999, 1 ♂, P. Kment & M. Omesová lgt. (PKPC). Valašské Klobouky, U Rybníků (38), 2.vii.1999, 1 ♀, M. Horsák & P. Kment lgt. (PKPC). Nedašov, Jalovcová stráň NR (54), puddle in a spring fen, 3.vii.1999, 1 ♀ 1 L, P. Kment & I. Malenovský lgt. (PKPC). Komňa, Lom Rasová NM (128), 29.iv.2000, 2 ♂♂, M. Horsák lgt. (MUBC, PKPC); 5.vii.2001, 1 L3, P. Kment & I. Malenovský lgt. (PKPC). Korytná, Lubná pond (134), 5.vii.2001, 1 ♂, M. Horsák & P. Kment lgt. (PKPC). Strání, Žabka reservoir (148), 16.v.1998, 1 ♂, P. Kment lgt., 10.vii.1998, numerous larvae, P. Kment observ., 2.ix.2005, 1 ♂, P. Kment lgt. (PKPC). Radějov, Dolní Mlýn (195), artificial reservoir, 11.vii.1998, 2 L, P. Kment lgt. (PKPC). Kněždub, Kejda pond (196), 14.vii.1998, 1 L, P. Kment lgt. (PKPC). Tvarožná Lhota, Lučina reservoir (199), 14.vii.1998, numerous larvae, P. Kment observ. (1 L in PKPC). Radějov, Pusté deergame enclosure, small pond below Kútky NR (219), 20.viii.2002, 1 L5, P. Kment observ. Velká nad Veličkou, village, Velička river above the weir (224), 19.vi.2000, 2 L1 1 L2 1 L4, P. Kment lgt., 9.ix.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** Holopalaearctic. **Biology and habitat:** Zoophagous. Euryecious

in standing and slowly running waters, mostly near shores on muddy bottom and among vegetation. Very common (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** –.

Family MICRONECTIDAE

Micronecta (Dichaetonecta) scholtzi (Fieber, 1860)

Material examined. Nevšová, swimming pool (20), 6.viii.1999, 1 ♂ 1 ♀ (ma), P. Kment lgt. (PKPC). Valašské Klobouky, U Rybníků (38), 2.vii.1999, 1 ♂ 3 ♀♀ (br), M. Horsák & P. Kment lgt. (PKPC). Horní Němčí, reservoir in village (111), 21.ix.2001, 1 ♂ 1 ♀ (br), P. Kment lgt. (PKPC). Korytná, Lubná pond (134), 5.vii.2001, 11 ♂♂ 7 ♀♀ (br), M. Horsák & P. Kment lgt. (PKPC). Strání, Žabka reservoir (148), 10.vii.1998, 4 ♂♂ (br), P. Kment lgt. (PKPC). Petrov, reservoir (183), 19.viii.2002, 3 ♂♂ 5 ♀♀ (br), P. Kment lgt. (PKPC). Kněždub, Kejda pond (196), 14.vii.1998, 4 ♂♂ 14 ♀♀ (br), P. Kment lgt. (PKPC). Tvarožná Lhota, Lučina reservoir (199), 14.vii.1998, 2 ♂♂ (br), P. Kment lgt. (PKPC); 24.ix.2005, new pools at inflow, 17 ♂♂ 22 ♀♀ (br), P. Kment lgt. (JKKD, PKPC). Hrubá Vrbka, Rošřovica reservoir (203), 12.viii.2000, 22 ♂♂ 8 ♀♀ (br), M. Horsák lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** European, extending to Maghreb. **Biology and habitat:** Zoophytophagous (?). On shallow, vegetation-free shores of larger standing waters (ponds, reservoirs, etc.), or in lower stretches of rivers; the most thermophilous, the most tolerant to eutrophication and the least demanding for oxygen among the central European *Micronecta* species. Common (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006; P. Kment, pers. observ.). **Red List status:** –.

Micronecta (Micronecta) minutissima (Linnaeus, 1758) (VU)

Material examined. Strání, Žabka reservoir (148), 10.vii.1998, 3 ♂♂ (br), P. Kment lgt. (PKPC). Radějov, Pusté deergame enclosure, small pond below Větrová hill (216), 18.viii.1999, 1 ♂ 1 ♀ (br), M. Horsák lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected at two sites only. **General distribution:** West Eurosiberian (Europe and Kazakhstan). **Biology and habitat:** Zoophytophagous (?). On shallow shores of standing waters (especially lakes and reservoirs, also in ponds, loam pits, alluvial pools, etc.), rarely in small, slowly running waters; less thermophilous, less tolerant to eutrophication and more demanding for oxygen than *M. scholtzi*. Rare (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** Vulnerable.

Family CORIXIDAE

Callicorixa praeusta praeusta (Fieber, 1848)

Material examined. Bojkovice, small pond on right-side tributary of Koménka brook (68), 9.vi.2000, 1 ♂, M. Horsák lgt. (PKPC). Svatý Štěpán, pools at railway (86), 23.x.1969, 1 ♂ 1 ♀, L. Pospíšilová lgt. (MMBC). Komňa, Lom Rasová NM (128), 9.iv.2000, 1 ♀, M. Horsák lgt. (PKPC). Hrubá Vrbka, village (212), 27.–29.vi.2008, 2 ♂♂, Z. Malinka lgt. (ZMOC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, probably due to a paucity of suitable habitats. **General distribution:** Eurosiberian. **Biology and habitat:** Zoophytophagous. Euryecious in various types of standing or running waters, preferring those with rich vegetation and abundant organic matter in bottom substrate; tolerant to salinity. Common (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** –.

Corixa punctata (Illiger, 1807)

Material examined. Svatý Štěpán, pools at railway (86), 23.x.1969, 3 ♂♂ 6 ♀♀, L. Pospíšilová lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, not recorded in the course of the recent survey, probably due to a paucity of suitable habitats. **General distribution:** West Palaearctic, extending to northern China and India. **Biology and habitat:** Zoophagous. Usually in small standing waters (e.g. ponds, loam pits, pools after turf mining, oxbow lakes) with rich vegetation and various trophic levels, rarely in slowly running waters. Common (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** –.

Cymatia coleoptrata (Fabricius, 1777)

Material examined. Svatý Štěpán, pools at railway (86), 23.x.1969, 5 ♂♂ 4 ♀♀ (br), L. Pospíšilová lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, not recorded in the course of the recent survey, probably due to a paucity of suitable habitats. **General distribution:** Eurosiberian. **Biology and habitat:** Zoophagous. In mesotrophic to eutrophic standing waters with rich submerged vegetation (e.g. small lakes, ponds, oxbow lakes, loam pits); only exceptionally in slowly running waters. Common (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** –.

Cymatia rogenhoferi (Fieber, 1864)

Material examined. Tvarožná Lhota, Lučina reservoir (199), new pools at inflow, 24.ix.2005, 2 ♂♂ 3 ♀♀ 2 L5, P. Kment lgt. (JDKD, PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, found only in one locality in the southern part of the area. **General distribution:** West Palaearctic, extending to Mongolia, northern China and India. **Biology and habitat:** Zoophagous. Euryecious in various standing waters with sandy or loamy substrate, with or without vegetation, tolerant to dystrophic water as well as higher salinity. Widespread, but very scattered and rare in central Europe (WRÓBLEWSKI 1980, KMENT & SMÉKAL 2002, WACHMANN *et al.* 2006). **Red List status:** –.

Comments. The distribution of *C. rogenhoferi* in the Czech Republic was reviewed by KMENT & SMÉKAL (2002). An additional record from Úvaly (pool at the Úvalský rybník pond, 7266) in southern Moravia was provided by STRAKA *et al.* (2009).

***Hesperocorixa linnaei* (Fieber, 1848)**

Material examined. Svätý Štěpán, pools at railway (86), 23.x.1969, 1 ♂ 21 ♀♀, L. Pospíšilová lgt. (MMBC). Horní Němčí, reservoir in village (111), 15.v.1998, 1 ♀, P. Kment lgt. (PKPC). Komňa, Lom Rasová NM (128), 9.iv.2000, 1 ♀, 29.iv.2000, 1 ♀, M. Horsák lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, probably due to a paucity of suitable habitats. **General distribution:** West Palaearctic, extending to eastern Siberia. **Biology and habitat:** Zoophytophagous (?). In mesotrophic to eutrophic standing waters rich in submerged vegetation and organic matter in bottom substrate, rarely also in slowly running streams; in open as well as shaded conditions. Common (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** –.

***Paracorixa concinna concinna* (Fieber, 1848)**

Material examined. Komňa, Lom Rasová NM (128), 9.iv.2000, 1 ♂, M. Horsák lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only at one site in the central part of the area. **General distribution:** Eurosiberian. **Biology and habitat:** Zoophytophagous (?). Euryecious in various standing waters (e.g. ponds, pools in loam or gravel pits, etc.), avoiding shaded conditions, rarely also in slowly running streams; tolerant to salinity. Common (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** –.

***Sigara (Pseudovermicorixa) nigrolineata nigrolineata* (Fieber, 1848)**

Material examined. Luhačovice, fountain in front of the Fontána II Hotel (4), 6.viii.1999, 1 ♀, P. Kment lgt. (PKPC). Petrůvka, small pond on Gáborka brook (13), 6.viii.1999, 1 ♂ 3 ♀♀, P. Kment lgt. (PKPC). Lipová (towards Haluzice), Lipovky forest (16), 21.viii.1984, 2 ♂♂ 6 ♀♀, J. L. Stehlík lgt. (MMBC). Nevšová, Říka brook in village (18), 6.viii.1999, 8 ♂♂ 3 ♀♀, P. Kment lgt. (PKPC). Nevšová, swimming pool (20), 6.viii.1999, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Poteč, pond (27), muddy shallow, 21.v.1999, 5 ♂♂ 3 ♀♀, M. Horsák & P. Kment lgt., 1.vii.1999, 4 ♂♂ 8 ♀♀ (2 ♀♀ freshly hatched), P. Kment & M. Omesová lgt. (PKPC). Svätý Štěpán, pools at railway (86), 23.x.1969, 14 ♂♂ 1 ♀, L. Pospíšilová lgt. (MMBC). Strání, Žabka reservoir (148), 2.ix.2005, 1 ♀, P. Kment lgt. (PKPC). Radějov, Dolní Mlýn (195), artificial reservoir, 11.vii.1998, 1 ♂, P. Kment lgt. (PKPC). Tvarožná Lhota, Lučina reservoir (199), 24.ix.2005, new pools at inflow, 3 ♂♂ 3 ♀♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** West Palaearctic. **Biology and habitat:** Zoophytophagous (?). Euryecious, inhabiting various small standing (pools in loam or sand pits, rain puddles and other temporary pools) and slowly running waters (small brooks, ditches), regardless pH and vegetation. A pioneer species, promptly colonizing newly created habitats and avoiding competition of other corixid species. Very common (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006; P. Kment, pers. observ.). **Red List status:** –.

***Sigara (Sigara) striata* (Linnaeus, 1758)**

Material examined. Poteč, pond (27), 1.vii.1999, 1 ♂ 2 ♀♀, P. Kment & M. Omesová lgt. (PKPC). Valašské Klobouky, U Rybníků (38), 2.vii.1999, 1 ♂, M. Horsák & P. Kment lgt. (PKPC). Svätý Štěpán, pools at railway

(86), 23.x.1969, 10 ♂♂ 1 ♀♀, L. Pospíšilová lgt. (MMBC). Komňa, Lom Rasová NM (128), 9.iv.2000, 2 ♂♂ 1 ♀, M. Horsák lgt. (PKPC). Petrov, reservoir (183), 19.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Tvarožná Lhota, Lučina reservoir (199), 14.vii.1998, 1 ♂, P. Kment lgt. (PKPC). Hrubá Vrbka, village (212), 27.–29.vi.2008, 1 ♂ 1 ♀, Z. Malinka lgt. (ZMOC). Velká nad Veličkou, village, Velička river above the weir (224), 18.iv.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** Eurosiberian. **Biology and habitat:** Zoophytophagous (?). Euryecious, in various standing (especially lakes and fish ponds with muddy or sandy bottom) and slowly running waters (from small brooks to large rivers), tolerant to eutrophication and salinity. Very common (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** –.

Sigara (Subsigara) falleni (Fieber, 1848)

Material examined. Poteč, pond (27), 1.vii.1999, 14 ♂♂ 12 ♀♀ (1 ♂ 1 ♀ freshly hatched), P. Kment & M. Omesová lgt. (PKPC). Valašské Klobouky, U Rybníků (38), 22.v.1999, 5 ♀♀, P. Kment lgt., 2.vii.1999, 11 ♂♂ 19 ♀♀ (1 ♂ 10 ♀♀ freshly hatched), M. Horsák & P. Kment lgt. (PKPC). Svatý Štěpán, pools at railway (86), 23.x.1969, 4 ♂♂, L. Pospíšilová lgt. (MMBC). Komňa, Lom Rasová NM (128), 9.iv.2000, 2 ♂♂ 3 ♀♀, 29.iv.2000, 1 ♂, M. Horsák lgt. (PKPC). Radějov, Dolní Mlýn (195), artificial reservoir, 11.vii.1998, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Kejda pond (196), 14.vii.1998, 1 ♂, P. Kment lgt. (PKPC). Tvarožná Lhota, Lučina reservoir (199), 14.vii.1998, 16 ♂♂, 24.ix.2005, new pools at inflow, 16 ♂♂ 25 ♀♀, P. Kment lgt. (PKPC). Hrubá Vrbka, Rošřovica reservoir (203), 12.viii.2000, 1 ♀, M. Horsák lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** Eurosiberian. **Biology and habitat:** Zoophytophagous (?). Euryecious, in various standing (especially lakes and fish ponds with muddy or sandy bottom) and slowly running waters (from small brooks to large rivers), tolerant to eutrophication. Very common, the most common corixid species in central Europe (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** –.

Sigara (Vermicorixa) lateralis (Leach, 1817)

Material examined. Luhačovice, fountain in front of the Fontána II Hotel (4), 6.viii.1999, 2 ♂♂, P. Kment lgt. (PKPC). Nevšová, swimming pool (20), 6.viii.1999, 5 ♂♂ 16 ♀♀ (2 ♂♂ freshly hatched), P. Kment lgt. (PKPC). Poteč, pond (27), 1.vii.1999, 1 ♂, P. Kment & M. Omesová lgt. (PKPC). Bojkovice, small pond on right-side tributary of Koménka brook (68), 9.vi.2000, 3 ♀♀, M. Horsák lgt. (PKPC). Svatý Štěpán, pools at railway (86), 23.x.1969, 1 ♀, L. Pospíšilová lgt. (MMBC). Komňa, Lom Rasová NM (128), 9.iv.2000, 1 ♀, 29.iv.2000, 1 ♂ 2 ♀♀, M. Horsák lgt. (PKPC). Hrubá Vrbka, village (212), 27.–29.vi.2008, 1 ♂ 1 ♀, Z. Malinka lgt. (ZMOC). Tvarožná Lhota, Lučina reservoir (199), 24.ix.2005, new pools at inflow, 3 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC). Velká nad Veličkou, village, Velička river above the weir (224), 18.iv.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** Holopalaeartic (extending to tropical Africa and India). **Biology and habitat:** Zoophytophagous (?). Euryecious in oligotrophic spring-pools, as well as hypertrophic ponds, in temporary rain puddles, as well as large lakes, usually preferring habitats with bare bottom; tolerant to salinity and eutrophication. Very common (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** –.

Family NAUCORIDAE

Ilyocoris cimicoides cimicoides (Linnaeus, 1758)

Material examined. Svatý Štěpán, pools at railway (86), 23.x.1969, 1 ♂ 2 ♀♀, L. Pospíšilová lgt. (MMBC). Komňa, Lom Rasová NM (128), 5.vii.2001, 1 L3, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected at two sites only. **General distribution:** Eurosiberian. **Biology and habitat:** Zoophagous. Preferring standing waters, more rarely in slowly running waters, usually at sites with rich vegetation and muddy bottom (especially small eutrophic lakes and ponds); tolerant to eutrophication. Common in lowlands, rare or missing in mountains (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** –.

Family NOTONECTIDAE

Notonecta (Notonecta) glauca glauca Linnaeus, 1758

Material examined. Poteč, pond (27), 1.vii.1999, 6 ♂♂ 1 ♀ (4 ♂♂ freshly hatched), P. Kment & M. Omesová lgt. (PKPC). Valašské Klobouky, U Rybníků (38), 24.viii.2002, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Svatý Štěpán, pools at railway (86), 23.x.1969, 2 ♂♂ 11 spec., L. Pospíšilová lgt. (MMBC). Radějov, Dolní Mlýn (195), artificial reservoir, 11.vii.1998, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Tvarožná Lhota, Lučina reservoir (199), 14.vii.1998, 1 ♂, P. Kment lgt. (PKPC). Tvarožná Lhota, Járkovec brook (200), 25.ix.2010, 1 spec., M. Straka lgt. et det. (MSHC). Radějov, Pusté deergame enclosure, small pond below Větrová hill (216), 18.viii.1999, 1 ♀, M. Horsák lgt. (PKPC). Velká nad Veličkou, village, Velička river above the weir (224), 9.ix.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** Holopalaeartic. **Biology and habitat:** Zoophagous. Euryecious in all types of standing and slowly running waters with sufficient vegetation. Very common, the most common backswimmer in central Europe (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** –.

Notonecta (Notonecta) maculata Fabricius, 1794

Published records. KMENT & SMÉKAL (2002): Nevšová, Říka brook in the village (18) and abandoned swimming pool (20).

Material examined. Slavičín, Lukšinka stream (17), 4.ix.2010, 1 ♂ 2 ♀♀, M. Straka lgt. et det. (MSHC). Vlachovice, Sviborka brook (21), 18.ix.2006, 1 ♀, P. Komzák lgt. (PKBC). Javorník, towards Vrbovec, Teplíka brook (262), 19.ix.2006, 1 ♂, P. Komzák lgt. (PKBC).

Distribution and frequency in the Bílé Karpaty PLA: Rare and scattered, depending on suitable habitats. **General distribution:** Holomediterranean, extending to central Europe, Iran and Pakistan. **Biology and habitat:** Zoophagous. A pioneer species, in standing, as well as running waters without vegetation, often colonizing newly created pools (e.g. in sand pits and quarries), as well as abandoned concrete reservoirs, avoiding competition with other backswimmer species. Widespread but rare (WRÓBLEWSKI 1980, KMENT & SMÉKAL 2002, WACHMANN *et al.* 2006). **Red List status:** –.

Comments. The distribution in the Czech Republic was reviewed by KMENT & SMÉKAL (2002).

***Notonecta (Notonecta) viridis* Delcourt, 1909**

Material examined. Nevšová, swimming pool (20), 6.viii.1999, 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), puddles in spring fen, 8.viii.2007, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected at two sites only.

General distribution: Holomediterranean, extending to central Europe, and central Asiatic, extending to India. **Biology and habitat:** Zoophagous. In standing waters with more or less rich vegetation and low trophic levels (fish ponds, pools in loam or gravel pits, rarely in peaty pools); tolerant to salinity. Widespread but quite rare (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** –.

Family PLEIDAE

***Plea minutissima minutissima* Leach, 1817**

Material examined. Nevšová, swimming pool (20), 6.viii.1999, 2 ♂♂ 6 ♀♀, P. Kment lgt. (MUBC, PKPC). Valašské Klobouky, U Rybníků (38), 2.vii.1999, 2 ♂♂, M. Horsák & P. Kment lgt. (PKPC). Strání, Žabka reservoir (148), 10.vii.1998, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Kejda pond (196), 13.v.1998, 1 spec., 14.vii.1998, 1 ♂, P. Kment lgt. (PKPC). Tvarožná Lhota, Lučina reservoir (199), 13.v.1998, 1 spec., 14.vii.1998, 1 ♀, P. Kment lgt. (PKPC). Hrubá Vrbka, Rošřovica reservoir (203), 12.viii.2000, 1 ♀, M. Horsák lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area.

General distribution: West Palaearctic. **Biology and habitat:** Zoophagous. In various standing (fish ponds, old pools in loam or turf pits, oxbow lakes) or slowly running waters, always with rich submerged vegetation. Common (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** –.

Infraorder GERROMORPHA

Family MESOVELIIDAE

***Mesovelia furcata* Mulsant et Rey, 1852**

Material examined. Petrov, reservoir (183), 19.viii.2002, 1 ♂ 1 ♀ (ap), P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only at one locality. **General distribution:** Eurosiberian. **Biology and habitat:** Zoophagous. On standing waters, only rarely on streams, with more or less dense cover of floating macrophytes (e.g. *Nymphaea*, *Nuphar*, *Potamogeton*). Widespread, not rare (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** –.

Family HEBRIDAE

***Hebrus (Hebrus) pusillus pusillus* (Fallén, 1807)**

(Fig. 1)

Material examined. Nedašov, Jalovcová stráž NR (54), spring fen, 25.viii.2002, 2 ♀♀, P. Kment lgt. (PKPC). Horní Němčí, Drahy NR (117), spring fen, 30.vi.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Březová,

Kalábová NM (137), 9.iv.2000, 1 ♂ 5 ♀♀, M. Horsák lgt. (MHBC, PKPC). Kněždub, Čertoryje NNR (202), U Pomníčku, spring fen, 22.viii.2002, 1 ♂ 1 ♀, P. Kment & M. Hrabáková (PKPC). Radějov, Kútky NR (217), spring fen, among tufts of *Scirpus*, 8.ix.1998, 2 ♂♂ 1 ♀, I. Malenovský & M. Omesová lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area but probably insufficiently documented. **General distribution:** Eurosiberian (perhaps extending to the Mediterranean area). **Biology and habitat:** Zoophagous. On shores as well as surface of various water bodies with rich vegetation on shores, in peat bogs as well as alkaline waters. Widespread, not rare (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** –.

Hebrus (Hebrusella) ruficeps Thomson, 1871

Material examined. Valašské Klobouky, Na Nivách (34), on the ground in spring fen, 30.vi.1999, 1 ♀ (mi), M. Horsák & P. Kment lgt. (PKPC). Korytná, Lubná pond (134), 5.vii.2001, 1 ♀ (mi), M. Horsák & P. Kment lgt. (PKPC). Březová, Kalábová NM (137), 9.iv.2000, 1 ♂ 1 ♀ (mi), M. Horsák lgt. (PKPC). Strání, Hrnčárky NM (141), travertine spring fen, 9.viii.2001, 2 ♀♀ (mi), P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area but probably insufficiently documented. **General distribution:** Eurosiberian. **Biology and habitat:** Zoophagous. In mosses, especially *Sphagnum*. Widespread, not rare (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** –.

Family HYDROMETRIDAE

Hydrometra stagnorum (Linnaeus, 1758)

Material examined. Poteč, pond (27), 21.v.1999, 1 ♂ 1 ♀ (mi), M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, U Rybníků (38), 24.viii.2002, 1 ♀ (mi), P. Kment lgt. (PKPC). Svatý Štěpán, Vlára river (95), 21.v.1999, 1 ♂ (mi), M. Horsák & P. Kment lgt. (PKPC). Korytná, Lubná pond (134), 5.vii.2001, 2 ♂♂ (mi), M. Horsák & P. Kment lgt. (PKPC). Lopeník, Hrubár brook valley (156), 29.iv.2000, 1 ♂ (mi), M. Horsák lgt. (PKPC). Velká nad Veličkou, village, Velička river above the weir (224), 18.iv.2000, 1 spec., P. Kment observ., 19.vi.2000, 2 ♂♂ 2 ♀♀ (mi), P. Kment lgt. (MUBC, PKPC); 9.ix.2000, 4 ♂♂ 4 ♀♀ (mi) 1 L, P. Kment & I. Malenovský lgt. (MUBC, PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** Holopalaearctic. **Biology and habitat:** Zoophagous. On water surface at, or directly on, shores, richly vegetated, as well as bare, of various standing, as well as running waters. Very common (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** –.

Family VELIIDAE

Microvelia (Microvelia) reticulata (Burmeister, 1835)

Material examined. Petrůvka, small pond on Gáborka brook (13), 6.viii.1999, 1 ♂ (ma), P. Kment lgt. (PKPC). Nevšová, swimming pool (20), 6.viii.1999, 2 ♂♂ 1 ♀ (ma) 1 ♀ (ap), P. Kment lgt. (PKPC). Poteč, pond (27), 21.v.1999, 1 ♂ (ap), M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, U Rybníků (38), 22.v.1999, 1 ♂ (ap), P. Kment lgt. (PKPC). Komňa, Lom Rasová NM (128), 29.iv.2000, 1 ♀ (ap), M. Horsák lgt. et det. 5.vii.2001, 1 ♀ (ma) 4 ♂♂ 2 ♀♀ (ap), P. Kment & I. Malenovský lgt. (PKPC). Tvarožná Lhota, Lučina

reservoir (199), 24.ix.2005, new pools at inflow, 1 ♂ (ma) 1 ♂ (ap), P. Kment lgt. (PKPC). Radějov, Pusté deergame enclosure, small pond below Větrová hill (216), 18.viii.1999, 1 ♀ (ap), M. Horsák lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** Eurosiberian. **Biology and habitat:** Zoophagous. On surface of various standing waters (lakes, fish ponds, pools and various ditches) with rich shore vegetation, preferring shaded places. Common (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** –.

Velia (Plesiovelia) caprai caprai Tamanini, 1947

Published record. KMENT (2001): Kněždub, Čertoryje NNR, Járkovec brook (201).

Material examined. Luhačovice, Gáborka brook (5), 6.viii.1999, 2 ♂♂ 4 ♀♀ (ap), P. Kment lgt. (PKPC). Luhačovice, Petrůvka brook (7), 6.viii.1999, 1 ♂ 1 ♀ (ap), P. Kment lgt. (PKPC). Haluzice, Václavský potok stream (15), 4.ix.2010, 3 spec., M. Straka lgt. et det. (MSHC). Nevšová, Říka brook in village (18), 6.viii.1999, 5 ♀♀ (ap), P. Kment lgt. (PKPC). Nevšová, Říka brook upstreams the village (19), 6.viii.1999, 2 ♂♂ 1 ♀ (ap), P. Kment lgt. (PKPC). Vrbětice, Václavský stream (22), 8.v.2010, 1 ♀ (ap), M. Straka lgt. et det. (MSHC). Poteč, right-side tributary of Brumovka brook (26), 21.v.1999, 6 ♂♂ 1 ♀ (ap), M. Horsák & P. Kment lgt. (PKPC). Nedašova Lhota, Nedašovka brook valley (41), 12.viii.1999, 2 ♂♂ 2 ♀♀ (ap), M. Horsák lgt. (PKPC). Nedašov, Hrušová dolina valley (53), small brook, 20.v.1999, 2 ♂♂ (ap), P. Kment & I. Malenovský lgt. (PKPC). Pitín, Olšava rivulet (73), 8.v.2010, 1 spec., M. Straka lgt. et det. (MSHC). Nedašov, Na Kopanicách, brook (89), 20.v.1999, 1 ♂ 1 ♀ (ap), 3.vii.1999, 1 ♀ (ap), P. Kment & I. Malenovský lgt. (PKPC). Slavkov, Kazivec brook valley (122), Kazivec brook, 15.v.1998, 5 ♂♂ 1 ♀ (ap), P. Kment lgt. (PKPC). Lopeník, Nivnička rivulet (131), 15.v.2010, 4 spec., M. Straka lgt. et det. (MSHC). Strání, Klanečnice brook valley above Žabka reservoir (142), Klanečnice brook, 16.v.1998, 4 ♂♂ 1 ♀ (ap), 9.viii.2001, 3 ♂♂ 3 ♀♀ (ap), P. Kment lgt. (PKPC). Lopeník, Hrubár brook valley (156), 29.iv.2000, 1 ♂ 1 ♀ (mi), M. Horsák lgt. (PKPC). Tvarožná Lhota, Járkovec brook (200), 25.ix.2010, 1 spec., M. Straka lgt. et det. (MSHC). Javorník, railway station (237), drainage ditches along railway, 7.ix.1998, 1 ♂ 2 ♀♀ (ap), I. Malenovský & M. Omesová lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook NW Machová hill (257), 14.v.1998, 3 ♂♂ 1 ♀ (ap), 9.vii.1998, 1 ♂ 1 ♀ (ap), P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** European. **Biology and habitat:** Zoophagous. On running waters, from small springs to relatively wide brooks, in turbulent streams on quiet pools, preferring shaded forest streams; rarely on standing waters connected with streams. Common in medium and higher elevations, rare in warm lowlands (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** –.

Velia (Plesiovelia) saulii Tamanini, 1947

Published record. ROHÁČOVÁ (1992): Luhačovice env. (68–6972).

Material examined. Nevšová, Říka brook in the village (18), 6.viii.1999, 1 ♀ (ap), P. Kment lgt. (PKPC). Válašské Klobouky, Brumovka brook (49), 19.v.1999, 1 ♀ (ap), P. Kment & I. Malenovský lgt. (PKPC). Louka, Hloží NR (106), 24.iv.1999, 1 ♀ (ap), M. Horsák lgt. (PKPC). Horní Němčí, right-side tributary of Okluky brook (112), 15.v.1998, 1 ♀ (ap), P. Kment lgt. (PKPC). Velká nad Veličkou, village, Velička river above the weir (224), 18.iv.2000, 1 ♀ (ma), P. Kment & I. Malenovský lgt., 19.vi.2000, 1 ♂ 1 ♀ (ap), P. Kment lgt. (PKPC). Kněždub, Radějovka brook valley downstream Kejda pond (256), 14.vii.1998, 1 ♂ 2 ♀♀ (ap), P. Kment lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook NW Machová hill (257), 14.v.1998, 1 ♀ (ap), P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** European. **Biology and habitat:** Zoophagous. On running waters,

preferring larger and/or less shaded streams than *V. caprai*. Widespread, not rare; present also in lowlands (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** –.

Family GERRIDAE

Aquarius paludum paludum (Fabricius, 1794)

Published record. KMENT (2001): Kněždub, Čertoryje NNR, Radějovka brook and an adjacent pool (204).
Material examined. Poteč, pond (27), 21.v.1999, 1 ♀ (ma), M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, U Rybníků (38), 22.v.1999, 1 ♂ (ma), P. Kment lgt., 2.vii.1999, 1 ♂ (br), M. Horsák & P. Kment lgt. (PKPC). Bojkovice, Koménka brook (67), 8.v.2010, 1 spec. M. Straka lgt. et det. (MSHC). Bojkovice, small pond on right-side tributary of Koménka brook (68), 9.vi.2000, 1 ♀ (ma), M. Horsák lgt. (PKPC). Horní Němčí, reservoir in village (111), 15.v.1998, 1 ♀ (ma), 21.ix.2001, 1 ♂ (ma), P. Kment lgt. (PKPC). Komňa, Lom Rasová NM (128), 29.iv.2000, 2 ♀♀ (ma), M. Horsák lgt., 5.vii.2001, 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Korytná, Lubná pond (134), 5.vii.2001, 1 ♂ (ma) 1 ♀ (br, freshly hatched), M. Horsák & P. Kment lgt. (PKPC). Strání, Žabka reservoir (148), 16.v.1998, 1 ♂ (ma), 10.vii.1998, 1 ♂ 1 ♀ (br), P. Kment lgt. (PKPC). Lopeník, Hrubár brook valley (156), 29.iv.2000, 1 ♀ (ma), M. Horsák lgt. (PKPC). Radějov, Mlýnky reservoir (190), 25.viii.1999, 1 ♀ (sma), M. Fikáček lgt. (JVPC). Radějov, Dolní Mlýn (195), artificial reservoir, 11.vii.1998, 1 ♀ (ma) 1 L, P. Kment lgt. (PKPC). Kněždub, Kejda pond (196), 14.vii.1998, 1 ♂ (numerous spec. observed), P. Kment lgt. (PKPC). Tvarožná Lhota, Lučina reservoir (199), 13.v.1998, 1 ♀ (ma), 14.vii.1998, 1 ♀ (br), 24.ix.2005, new pools at inflow, 1 ♀ (ma) (PKPC). Velká nad Veličkou, village, Velička river above the weir (224), 18.iv.2000, 2 ♂♂ 2 ♀♀ (ma), P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** Holopalaearctic, extending to northern areas of the Oriental Region. **Biology and habitat:** Zoophagous. On larger standing and slowly running waters (ponds, oxbow lakes, rivers, etc.) with vegetation-free surface. Very common (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** –.

Gerris (Gerris) argentatus Schummel, 1832

Published record. KMENT (2001): Kněždub, Čertoryje NNR, Radějovka brook (204).
Material examined. Komňa, Lom Rasová NM (128), 5.vii.2001, 3 ♀♀ (ap), P. Kment & I. Malenovský lgt. (PKPC). Korytná, Lubná pond (134), 5.vii.2001, 1 ♂ (ma), M. Horsák & P. Kment lgt. (PKPC). Petrov, reservoir (183), 19.viii.2002, 1 ♂ (ma), P. Kment lgt. (PKPC). Velká nad Veličkou, village, Velička river above the weir (224), 19.vi.2000, 1 ♂ (ma), P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only in the central and southern parts of the area. **General distribution:** West Palaearctic, extending to eastern Siberia and Mongolia. **Biology and habitat:** Zoophagous. On standing waters (especially lakes and large ponds, less frequently pools, oxbow lakes, etc.), as well as slowly running streams (canals, brooks); always in habitats with rich growths of submerged macrophytes and dense emerged shore vegetation. Widespread, not rare (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** –.

Gerris (Gerris) gibbifer Schummel, 1832

Published record. KMENT (2001): Kněždub, Čertoryje NNR, pool at Radějovka brook (204).
Material examined. Luhačovice, fountain in front of the Fontána II Hotel (4), 6.viii.1999, 1 ♀ (ma), P. Kment lgt. (PKPC). Luhačovice, U Kamenného kříže crossroad (10), puddles on the road, 6.viii.1999, 1 ♂ (ma) 3 ♀♀

True bugs (Hemiptera: Heteroptera)

(sma, 1 ♀ freshly hatched), P. Kment lgt. (PKPC). Nevšová, Hranice hill (12), on puddles, 6.viii.1999, 2 ♂♂ (ma), P. Kment lgt. (PKPC). Petrůvka, small pond on Gáborka brook (13), 6.viii.1999, 1 ♀ (ma), P. Kment lgt. (PKPC). Lipová (towards Haluzice), Lipovky forest (16), 21.viii.1984, 15 ♂♂ 17 ♀♀ (ma), J. L. Stehlík lgt. (MMBC). Nevšová, Říka brook in village (18), 6.viii.1999, 1 ♀ (ma), P. Kment lgt. (PKPC). Nevšová, Říka brook upstreams the village (19), 6.viii.1999, 1 ♂ 1 ♀ (ma), P. Kment lgt. (PKPC). Nevšová, swimming pool (20), 6.viii.1999, 1 ♂ (ma), P. Kment lgt. (PKPC). Poteč, pond (27), 21.v.1999, 1 ♀ (ma), M. Horsák & P. Kment lgt., 1.vii.1999, 1 ♂ 1 ♀ (ma), P. Kment & M. Omesová lgt. (PKPC). Valašské Klobouky, Královec hill (33), puddles on forest path, 22.v.1999, 2 ♀♀ (ma), P. Kment & I. Malenovský lgt., 10.ix.1999, 2 ♂♂ 2 ♀♀ (ma, 1 ♂ freshly hatched), I. Malenovský & T. Vymyslický lgt. (PKPC). Valašské Klobouky, valley of left-side tributary of Brumovka brook SW of Královec hill (50), 19.v.1999, 2 ♂♂ 1 ♀ (ma), P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Hrušová dolina valley (53), small brook, 20.v.1999, 1 ♀ (ma), P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), on puddles and spring fens, 20.v.1999, 1 ♂ 3 ♀♀ (ma), P. Kment & I. Malenovský lgt., 25.viii.2002, 2 ♀♀ (ma), P. Kment lgt., 8.v.2004, 1 ♂ 1 ♀ (ma), P. Kment lgt. (PKPC). Bojkovice, small pond on right-side tributary of Koménka brook (68), 9.vi.2000, 1 ♂ (ma), M. Horsák lgt. (PKPC). Hostětín (70), 10.viii.1970, 7 ♂♂ 18 ♀♀ (ma), L. Pospíšilová lgt. (MMBC). Popov, Havránkův potok brook valley (71), 6.viii.1980, 1 ♀ (ma), J. L. Stehlík lgt. (MMBC). Bylnice, from Vlára river towards Lazy NR (81), puddles, 21.v.1999, 1 ♂ 2 ♀♀ (ma), I. Malenovský & T. Vymyslický lgt. (PKPC). Bylnice, small pond at a cottage below Lazy NR (84), 1.vii.1999, 1 ♂ 1 ♀ (ma, freshly hatched), P. Kment & M. Omesová lgt. (PKPC). Svatý Štěpán, Vlára river (95), 21.v.1999, 1 ♂ (ma), M. Horsák & P. Kment lgt. (PKPC). Slavkov, Kazivec brook valley (122), puddles at Kazivec brook, 15.v.1998, 1 ♂ (ma), P. Kment lgt. (PKPC). Slavkov, forest below Dolnoněmčanské louky NR (124), on puddles, 15.v.1998, 1 ♂ (ma), P. Kment lgt. (PKPC). Vápenice, Trstná brook valley (133), puddles on forest road, 6.vii.2001, 1 ♀ (ma), P. Kment & I. Malenovský lgt. (PKPC). Březová, spring fen ca. 600 m SE below Studený vrch hill (138), 9.iv.2000, 1 ♂ 1 ♀ (ma), M. Horsák lgt. (PKPC). Strání, Klanečnice brook valley above Žabka reservoir (142), on puddles, 10.vii.1998, 1 ♀ (ma), P. Kment lgt. (PKPC). Strání, village (147), left-side tributary of Klanečnice brook, 16.v.1998, 2 ♀♀ (ma), P. Kment lgt. (PKPC). Lopeník, Hrubár brook valley (156), puddles on road, 29.iv.2000, 1 ♂ 1 ♀ (ma) (MUBC, PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), puddles in spring fen, 8.viii.2007, 1 ♀ (ma), P. Kment & I. Malenovský lgt. (PKPC). Kněždub, Čertoryje NNR (202), 19.vi.1980, 2 ♂♂ 1 ♀ (ma), L. Pospíšilová lgt. (MMBC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), on puddle, 14.v.1998, 2 ♂♂ 2 ♀♀ (ma), P. Kment lgt. (PKPC). Javorník, Machová NR (259), spring fen on southern slope, 14.v.1998, 3 ♂♂ 1 ♀ (ma), P. Kment lgt. (PKPC). Strání, Mechnáčky NM (264), pool, 7.v.2007, 2 ♂♂ 1 ♀ (ma), P. Komzák lgt. (PKBC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: European, extending to Maghreb. **Biology and habitat:** Zoophagous. On various small to very small, often temporary, standing waters (rain puddles, flooded tracks on roads, small pools), as well as slowly running streams. A well-flying pioneer species that avoids competition with other *Gerris* species. Common in medium and higher altitudes (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** –.

Gerris (Gerris) lacustris (Linnaeus, 1758)

Published record. KMENT (2001): Kněždub, Čertoryje NNR, pool at Radějovka brook (204).

Material examined. Luhačovice, Šťávnice river below the Fontána II Hotel (9), 6.viii.1999, 1 ♂ (ma), P. Kment lgt. (PKPC). Petrůvka, small pond on Gáborka brook (13), 6.viii.1999, 1 ♂ 2 ♀♀ (ma), P. Kment lgt. (PKPC). Lipová (towards Haluzice), Lipovky forest (16), 21.viii.1984, 1 ♂ 4 ♀♀ (ma) 1 ♀ (br), J. L. Stehlík lgt. (MMBC). Nevšová, swimming pool (20), 6.viii.1999, 2 ♂♂ 3 ♀♀ (ma) 2 ♀♀ (br), P. Kment lgt. (PKPC). Vlachovice, Sviborka brook (21), 18.ix.2006, 1 ♂ (ma), P. Komzák lgt. (PKBC). Vrbětice, Václavský stream (22), 8.v.2010, 1 spec., M. Straka lgt. et det. (MSHC). Poteč, right-side tributary of Brumovka brook (26), 21.v.1999, 2 ♀♀ (ma), M. Horsák & P. Kment lgt. (PKPC). Poteč, pond (27), 1.vii.1999, 1 ♀ (ma) 1 ♂ 5 ♀♀ (br), P. Kment & M. Omesová lgt. (PKPC). Valašské Klobouky, U Rybníků (38), 22.v.1999, 4 ♂♂ 3 ♀♀ (ma), P. Kment lgt., 2.vii.1999, 1 ♂ (ma) 2 ♀♀ (br, 1 ♀ freshly hatched), M. Horsák & P. Kment lgt. (PKPC).

Nedašov, Jalovcová stráž NR (54), 8.v.2004, puddles on a road, 1 ♀ (ma), P. Kment lgt. (PKPC). Bojkovice, Koménka brook (67), 8.v.2010, 1 spec., M. Straka lgt. et det. (MSHC). Bojkovice, small pond on right-side tributary of Koménka brook (68), 9.vi.2000, 1 ♂ (ma) 1 ♀ (br), M. Horsák lgt. (PKPC). Hostětín (70), 10.viii.1970, 1 ♂ 3 ♀♀ (ma) 1 ♀ (br), L. Pospíšilová lgt. (MMBC). Popov, Havránkův potok brook valley (71), 6.viii.1980, 1 ♀ (ma) 1 ♀ (br), J. L. Stehlík lgt. (MMBC). Bylnice, small pond at a cottage below Lazy NR (84), 1.vii.1999, 1 ♂ 2 ♀♀ (ma) (freshly hatched), P. Kment & M. Omesová lgt. (PKPC). Bylnice, Vlára river (85), 1.vii.1999, 1 ♂ (ma) 1 ♀ (br), P. Kment & M. Omesová lgt. (PKPC). Svätý Štěpán, pools at railway (86), 23.x.1969, 1 ♂ (br), L. Pospíšilová lgt. (MMBC). Svätý Štěpán, Vlára river (95), 21.v.1999, 2 ♂♂ 1 ♀ (ma), M. Horsák & P. Kment lgt. (PKPC). Louka, Hloží NR (106), 24.iv.1999, 1 ♂ (ma), M. Horsák lgt. (PKPC). Horní Němčít, reservoir in village (111), 15.v.1998, 1 ♂ (br) 1 ♀ (ma), 21.ix.2001, 2 ♂♂ 2 ♀♀ (ma), P. Kment lgt. (PKPC). Slavkov, Kazivec brook valley (122), puddles at Kazivec brook, 15.v.1998, 1 ♂ 2 ♀♀ (ma), P. Kment lgt. (PKPC). Komňa, Lom Rasová NM (128), 29.iv.2000, 2 ♂♂ (ma), M. Horsák lgt., 5.vii.2001, 1 ♂ 3 ♀♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Korytná, Lubná pond (134), 5.vii.2001, 1 ♂ (ma), M. Horsák & P. Kment lgt. (PKPC). Strání, Klanečnice brook valley above Žabka reservoir (142), on puddles, 10.vii.1998, 1 ♀ (ma), P. Kment lgt. (PKPC). Strání, Žabka reservoir (148), 10.vii.1998, 2 ♂♂ (ma), 2.ix.2005, 1 ♀ (br), P. Kment lgt. (PKPC). Radějov, Dolní Mlýn (195), artificial reservoir, 11.vii.1998, 1 ♂ 1 ♀ (br), P. Kment lgt. (PKPC). Kněždub, Kejda pond (196), 14.vii.1998, 1 ♀ (br), P. Kment lgt. (PKPC). Tvarožná Lhota, Lučina reservoir (199), 13.v.1998, 3 ♂♂ 3 ♀♀ (ma), 14.vii.1998, 1 ♀ (ma), P. Kment lgt. (PKPC). Radějov, Pusté deergame enclosure, small pond below Větrová hill (216), 18.viii.1999, 1 ♂ (ma) 2 ♀♀ (br), M. Horsák lgt. (PKPC). Velká nad Veličkou, below Zahrady pod Hájem NNR (221), on puddles, 13.vii.1998, 1 ♀ (ma), P. Kment lgt. (PKPC). Velká nad Veličkou, village, Velička river above the weir (224), 18.iv.2000, 1 ♂ 2 ♀♀ (ma), P. Kment lgt. (PKPC). Javorník, Machová NR (259), Rybnický potok brook, 14.v.1998, 1 ♀ (ma), P. Kment lgt. (PKPC). Javorník, Filipovské údolí valley (261), viii.1941, 1 ♀ (ma), A. Hoffer lgt. (NMPC). Javorník, towards Vrbovce, Teplíca brook (262), 19.ix.2006, 1 ♀ (ma), P. Komzák lgt. (PKBC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Holopalaeartic. **Biology and habitat:** Zoophagous. Euryecious on all types of standing and slowly running waters, regardless altitude, water chemism, or vegetation; tolerant to eutrophication and salinity. Very common, the most common water strider in central Europe (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** –.

Gerris (Gerris) odontogaster (Zetterstedt, 1828)

Published record. KMENT (2001): Kněždub, Čertoryje NNR, Radějovka brook and an adjacent pool (204).

Material examined. Nevšová, swimming pool (20), 6.viii.1999, 2 ♂♂ (ma), P. Kment lgt. (PKPC). Poteč, pond (27), 1.vii.1999, 1 ♂ (ma) 2 ♀♀ (mi), P. Kment & M. Omesová lgt. (PKPC). Bojkovice, small pond on right-side tributary of Koménka brook (68), 9.vi.2000, 1 ♂ (ma), M. Horsák lgt. (PKPC). Bylnice, Vlára river (85), 1.vii.1999, 1 ♂ (ma), P. Kment & M. Omesová lgt. (PKPC). Svätý Štěpán, pools at railway (86), 23.x.1969, 1 ♂ 1 ♀ (ma), L. Pospíšilová lgt. (MMBC). Komňa, Lom Rasová NM (128), 29.iv.2000, 1 ♂ 2 ♀♀ (ma), M. Horsák lgt. (PKPC). Velká nad Veličkou, village, Velička river above the weir (224), 19.vi.2000, 1 ♂ (ma), P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area.

General distribution: Eurosiberian. **Biology and habitat:** Zoophagous. Euryecious on standing (lakes, ponds, peat bogs, loam pits, oxbow lakes, etc.), as well as slowly running waters, from lowland to mountains. Common (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** –.

Gerris (Gerris) thoracicus Schummel, 1832

Published record. KMENT (2001): Kněždub, Čertoryje NNR, pool at Radějovka brook (204).

True bugs (Hemiptera: Heteroptera)

Material examined. Nevšová, swimming pool (20), 6.viii.1999, 3 ♂♂ 2 ♀♀ (ma), P. Kment lgt. (PKPC). Poteč, pond (27), 21.v.1999, 3 ♂♂ (ma), M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, U Rybníků (38), 2.vii.1999, 1 ♀ (ma), M. Horsák & P. Kment lgt. (PKPC). Bojkovice, small pond on right-side tributary of Koménka brook (68), 9.vi.2000, 9 ♂♂ 4 ♀♀ (ma), M. Horsák lgt. (MUBC, PKPC). Svatý Štěpán, Vlárský průsmyk pass, Vlára river (96), 26.iv.2010, 2 ♂♂ (ma), P. Komzák lgt. et det. (PKBC). Horní Němčí, reservoir in village (111), 15.v.1998, 1 ♂, P. Kment lgt. (PKPC). Komňa, Lom Rasová NM (128), 29.iv.2000, 1 ♂ (ma), M. Horsák lgt. (PKPC). Radějov, Dolní Mlýn (195), artificial reservoir, 11.vii.1998, 1 ♀ (ma), P. Kment lgt. (PKPC). Tvarožná Lhota, Lučina reservoir (199), 13.v.1998, 2 ♀♀ (ma), P. Kment lgt. (PKPC). Velká nad Veličkou, village, Velička river above the weir (224), 18.iv.2000, 1 ♂ 3 ♀♀ (ma), P. Kment & I. Malenovský lgt. (MUBC, PKPC); 19.vi.2000, 2 ♂♂ 2 ♀♀ (ma), P. Kment lgt. (PKPC). Strání, Mechnáčky NM (264), pool, 7.v.2007, 3 ♀♀ (ma), P. Komzák lgt. (PKBC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area.

General distribution: West Palaearctic, extending to northern India. **Biology and habitat:** Zoophagous. Often on small or medium-sized standing (ponds, loam pits, oxbow lakes, alluvial pools) and slowly running waters (brooks, canals), rarely at banks of larger rivers and lakes; tolerant to eutrophication and salinity, rare on dystrophic waters. Common (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** –.

***Gerris (Gerriselloides) asper* (Fieber, 1860) (EN)**

Published records. KMENT (2001): Kněždub, Čertoryje NNR, pool at Radějovka brook (204). KMENT & SMĚKAL (2002): Velká nad Veličkou, Velička river in the village (224).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only at two sites in the southern part of the area. **General distribution:** Holomediterranean, extending to central Europe and Afghanistan. **Biology and habitat:** Zoophagous. On standing (ponds, pools), as well as slowly running waters, especially in shaded conditions (KMENT & SMĚKAL 2002, WACHMANN *et al.* 2006). Very rare; in the Czech Republic, recently confirmed only in the warm lowlands of southern and central Moravia (see KMENT & SMĚKAL (2002) for a review of records). **Red List status:** Endangered.

***Limnporus rufoscutellatus* (Latreille, 1807)**

Published record. KMENT (2001): Kněždub, Čertoryje NNR, Radějovka brook and an adjacent pool (204).

Material examined. Nevšová, swimming pool (20), 6.viii.1999, 2 ♂♂ 3 ♀♀ (ma, 1 ♂ freshly hatched), P. Kment lgt. (PKPC). Poteč, pond (27), 21.v.1999, 1 ♂ (ma), M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, U Rybníků (38), 2.vii.1999, 1 spec., P. Kment observ. Komňa, Lom Rasová NM (128), 9.v.2008, 1 ♂ (ma), P. Komzák lgt. (PKBC). Radějov, Pusté deergame enclosure, small pond below Větrová hill (216), 18.viii.1999, 1 ♂ 1 ♀ (ma), M. Horsák lgt. (PKPC). Velká nad Veličkou, village, Velička river above the weir (224), 19.vi.2000, 1 ♂ (ma), P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area but quite rare. **General distribution:** Holarctic. **Biology and habitat:** Zoophagous. On standing or slowly running waters with dense shore and emerged vegetation, preferring smaller ponds, peaty pools, oxbow lakes, alluvial pools, swamps, or canals. Widespread, but scattered and mostly rare (WRÓBLEWSKI 1980, WACHMANN *et al.* 2006). **Red List status:** –.

Infraorder LEPTOPODOMORPHA

Family SALDIDAE

***Chartoscirta cincta cincta* (Herrich-Schaeffer, 1841)**

Material examined. Kněždub, Čertoryje NNR, Radějovka brook (204), 14.vii.–12.viii.2010, Mt, 2 ♂♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 8.–28.v.2007, Mt, 1 ♂, 18.vi.–9.vii.2007, Mt, 1 ♀, 9.vii.–2.viii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only into Malaise traps at two sites. **General distribution:** West Palaearctic and Afrotropical. **Biology and habitat:** Zoophagous. In swamps, sedge and reed stands, wet meadows, and shore habitats, dwelling on the ground among mosses and vegetation. Widespread, not rare (WACHMANN *et al.* 2006). **Red List status:** –.

***Saldula c-album* (Fieber, 1859)**

(NT)

Material examined. Horní Němčí, Uvezené NM (120), 7.ii.2009, sifting, 1 ♂, J. Ch. Vávra lgt. (OMOC). Lopeník, U Zvonice NM (155), 27.vi.2004, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 12.iv.–8.v.2007, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Vápenky / Strání, Mt. Velká Javořina (255), forest, 9.v.1998, 1 ♀, V. Bryja lgt., J. Bryja det., P. Kment revid. (JBSC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only in the central and southern part of the area. **General distribution:** West Eurosiberian, extending to Transcaucasia. **Biology and habitat:** Zoophagous. A characteristic species of sandy and gravel (rarely also muddy) banks of mountain streams. Widespread in mountain or submontane regions but uncommon; rare in lowlands (HOBERLANDT 1977a, WACHMANN *et al.* 2006). **Red List status:** Near-threatened.

Comments. The distribution in the Czech Republic was reviewed by HOBERLANDT (1977a).

***Saldula opacula* (Zetterstedt, 1838)**

Material examined. Kněždub, environs of Kejda pond (196) and Čertoryje NNR (202), 14.ix.2004, 1 ♀, M. Horský lgt. (PKPC). Velká nad Veličkou, village, Velička river above the weir (224), 19.vi.2000, 4 ♂♂ 3 ♀♀, P. Kment lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 8.–28.v.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, found only in the southern part of the area. **General distribution:** Holarctic (Holopalaearctic extending to northern India, missing in northern Africa; and Nearctic). **Biology and habitat:** Zoophagous. Euryecious, found on banks of various waters, in humid heathland, peat bogs, and salt marshes. Widespread but quite rare (HOBERLANDT 1977a, WACHMANN *et al.* 2006). **Red List status:** –.

***Saldula saltatoria* (Linnaeus, 1758)**

Material examined. Valašské Klobouky, Brumovka brook valley (29), 9.ix.1999, 4 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 10.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC); 20.v.2006, 1 ♂, P. Komzák lgt. (PKBC). Valašské Klobouky, U Rybníků (38), 2.vii.1999, 1 ♂, M. Horsák & P. Kment lgt. (PKPC). Bylnice, Lazy NR and environs (82), 12.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Svatý Štěpán, Chladný vrch NM (93), 6.iv.–5.v.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Komňa, Lom Rasová NM (128), 29.iv.2000, 1 ♀, M. Horsák & J. Horsáková lgt. (PKPC). Strání, Klanečnice brook valley between village and Žabka reservoir (143), 16.v.1998, 2 ♂♂, P. Kment lgt. (PKPC). Lopeník, Hrubý Mechnáč (157), 29.iv.2000, 1 ♀, M. Horsák lgt. (PKPC). Vyškovecké Bošačky, cattle pasture (179), 21.v.2005, 1 ♀, I. Malenovský lgt. (PKPC). Malá Vrbka, Vojšické louky meadows (207), 17.iv.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 17.iv.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Radějov, Kútky NR (217), 4.–26.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, village, Velička river above the weir (224), 19.vi.2000, 1 ♂, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 6.v.2000, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 13.vii.–10.viii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), spring fen, 9.vii.1998, 1 ♂, P. Kment lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 12.iv.–8.v.2007, Mt, 1 ♂ 1 ♀, 18.vi.–9.vii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 7.iv.–5.v.2010, Mt, 1 ♀, 15.vi.–9.vii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Holarctic (Holopalaearctic and Nearctic). **Biology and habitat:** Zoophagous. Eurycious: occurring on wet shores of waters from small pools to large lakes and rivers, including raised peat bogs and salt marshes; more rarely also in dry habitats, such as ruderal sites, fallows and fields. Very common, the most common shore bug species in central Europe (WACHMANN *et al.* 2006). **Red List status:** –.

Infraorder CIMICOMORPHA

Family TINGIDAE

***Acalypta marginata* (Wolff, 1804)**

Published record. HOBERLANDT (1942): Velká Javorina (942 m) [= Mt. Velká Javořina] (255).

Material examined. Brumov, Uhlíčky (44), 4.v.–3.vi.2005, pt, 1 ♂ (br), K. Resl lgt., 3.vi.–4.vii.2005, pt, 1 ♀ (br), K. Resl lgt., 6.viii.–7.ix.2005, pt, 1 ♀ (br), K. Resl lgt. (PKPC). Brumov, Kloboucká street (76), 4.v.–3.vi.2005, pt, 2 ♂♂ 2 ♀♀ (br), K. Resl lgt., 3.vi.–4.vii.2005, pt, 1 ♂ 1 ♀ (br), K. Resl lgt. (PKPC). Horní Němčí, Drahy NR (117), 22.v.–22.vi.2003, pt, 1 ♂ (br), K. Resl lgt. (PKPC). Suchovské Mlýny, sheep pasture (226), 3.iv.–6.v.2005, pt, 2 ♂♂ (br), K. Resl lgt., 6.v.–4.vi.2005, pt, 7 ♂♂ (br), K. Resl lgt., 26.v.2005, sweeping, 1 ♀ (ma), I. Malenovský lgt., 4.vi.–4.vii.2005, pt, 3 ♂♂ (br), K. Resl lgt. (PKPC). Suchovské Mlýny, meadow (227), 6.v.–4.vi.2005, pt, 18 ♂♂ 5 ♀♀ (br), 4.vi.–4.vii.2005, pt, 3 ♂♂ 2 ♀♀ (br), K. Resl lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread throughout the area but insufficiently documented. Nearly all specimens were collected by means of pitfall traps. **General distribution:** Eurosiberian. **Biology and habitat:** Epigeic, living in mosses and lichens. Eurycious in dry, as well as humid habitats (heathland, dry grassland, dunes, mossy and swampy meadows, oak and pine forests), although preferring dry, sunny places. Widespread, not rare (STEHLÍK 2002, RÉDEI *et al.* 2004, WACHMANN *et al.* 2006). **Red List status:** –.

Acalypta musci (Schrank, 1781)

Published record. HOBERLANDT (1942, as typical forma and var. *dilatata*): Velká Javorina (942 m) [= Mt. Velká Javořina] (255).

Material examined. Luhačovice, forest along Štávnice river (3), sifting of moss, 10.xi.2001, 2 ♂♂, M. Mantič lgt. (MMHC). Žitková, Skaličí (165), 12.vii.2009, 1 ♂, E. Ezer lgt. (EEZC).

Distribution and frequency in the Bílé Karpaty PLA: Rare but probably insufficiently documented. **General distribution:** European. **Biology and habitat:** Epigeic, living in mosses and plant litter under trees in various forests, deciduous as well as coniferous (Medio-European beech and oak-hornbeam forests, particularly in *Quercus-Carpinetum*; dry and mesophilous oak woods; mixed forests and deciduous thickets, particularly *Tilio-Fraxinetum*; riverine forests; coniferous woods), only exceptionally collected in woodless habitats. Widespread, not rare (STEHLÍK 2002, RÉDEI *et al.* 2004, WACHMANN *et al.* 2006). **Red List status:** –.

Acalypta nigrina (Fallén, 1807)

Published record. HOBERLANDT (1942): Velká Javorina (942 m) [= Mt. Velká Javořina] (255).

Distribution and frequency in the Bílé Karpaty PLA: Rare, not found in the course of the recent survey. **General distribution:** Eurosiberian. **Biology and habitat:** Epigeic, living in mosses (e.g. *Polytrichum*, *Hypnum*, *Pleurozium*, *Dicranum*) in humid open (heathland, peat bogs and peaty meadows), as well as forest habitats; preferring medium and higher altitudes. Widespread but rare (STEHLÍK 2002, WACHMANN *et al.* 2006). **Red List status:** –.

Acalypta platycheila (Fieber, 1844)

Material examined. Brumov, Uhličky (44), 30.vi.2004, sweeping, 1 ♂ (br), P. Kment lgt., 3.vi.–4.vii.2005, 1 ♀ (br), K. Resl lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only at one site in the northern part of the area. **General distribution:** Eurosiberian. **Biology and habitat:** Epigeic, associated with moist mosses (e.g. *Pleurozium*) in open as well as forest, quite humid habitats. Widespread but rare (RÉDEI *et al.* 2004, WACHMANN *et al.* 2006). **Red List status:** –.

Comments. For Bohemia recorded by FIEBER (1844, 1861) without exact locality data, DUDA (1884, 1885; as *Orthostira platycheila*) from the environs of Písek (6650–51, 6750–51), and HOBERLANDT (1943) from Breitenbach [= Potůčky] (5542). There has been no reliable record of *A. platycheila* for Moravia, as the finding by DOBŠÍK (1977) from Biskupice (5871) turned out to be a misidentified *A. marginata* (see STEHLÍK 2002: 92). First record for Moravia.

Agramma (Agramma) confusum (Puton, 1879) (CR)

Published record. KMENT & MALENOVSKÝ (2008): Nedašov, Jalovcová stráň NR (54).

Material examined. Nedašov, Jalovcová stráň NR (54), sweeping of a spring fen, 20.v.1999, 1 ♂ 2 ♀♀, 3.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt., 10.ix.1999, 1 ♂ 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, found only in one small spring fen in the northern part of the area, not confirmed after 1999. **General distribution:** European, extending to Anatolia and Iran. **Biology and habitat:** Development was confirmed in Moravia on *Juncus gerardii* (ŠTUSÁK 1971; P. Kment, pers. observ.), although it develops also on other plants of the Cyperaceae and Juncaceae (e.g. *Carex*, *Blysmus*, *Juncus*, *Eriophorum*; GOLUB 1990). Most often found in salt marshes, rarely in other moist habitats in warm lowlands. Very rare (STEHLÍK 2002, WACHMANN *et al.* 2006). **Red List status:** Critically endangered.

Campylosteira verna (Fallén, 1826)

(VU)

Material examined. Brumov, Uhličky (44), 3.vi.–4.vii.2005, pt, 1 ♂ (br), K. Resl lgt. (PKPC). Brumov, Kloboucká street (76), 4.v.–3.vi.2005, pt, 1 ♀ (br), 3.vi.–4.vii.2005, pt, 3 ♂♂ (br), K. Resl lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 5.x.2005, 2 ♀♀ (br), I. Malenovský lgt. (PKPC). Lopeník, U Zvonice NM (155), 16.iv.–20.v.2005, pt, 2 ♂♂ (br), 20.v.–25.vi.2005, pt, 3 ♂♂ 1 ♀ (br), K. Resl lgt. (PKPC). Suchovské Mlýny, meadow (227), 6.v.–4.vi.2005, pt, 1 ♂ (br), K. Resl lgt. (PKPC). Suchovské Mlýny, sheep pasture (226), 6.v.–4.vi.2005, pt, 1 ♂ (br), K. Resl lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 8.v.2005, pt, 1 ♀ (br), P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread throughout the area but insufficiently documented; collected almost exclusively into pitfall traps. **General distribution:** West Eurosiberian. **Biology and habitat:** Epigeic, living in plant litter, mosses and lichens, and under stones. In open, xerothermic to moist habitats. Widespread but rare (STEHLÍK 2002, WACHMANN *et al.* 2006). **Red List status:** Vulnerable.

Catoplatus carthusianus (Goeze, 1778)

Published record. STEHLÍK (2002): Javorník (7171).

Material examined. Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, recently collected only in one xerothermic locality in the southern part of the area. **General distribution:** Holomediterranean, extending to central Europe. **Biology and habitat:** On *Eryngium campestre* in xerothermic localities. Common in relatively warm regions (STEHLÍK 2002, WACHMANN *et al.* 2006). **Red List status:** –.

Catoplatus fabricii (Stål, 1868)

Published records. KMENT (2001): Kněždub, Čertoryje NNR (202). STEHLÍK (2002): Luhačovice (68–6972); Velká nad Veličkou (towards Javorník) (240).

Material examined. Valašské Klobouky, Brumovka brook valley (29), 19.v.1999, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (MHBC, PKPC). Valašské Klobouky, Javorůvky NR (32), 22.v.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Brumov, Uhličky (44), 28.v.2005, 1 ♂, I. Malenovský lgt., 4.v.–3.vi.2005, pt, 1 ♂, K. Resl lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, meadow (48), 19.v.1999, 1 ♂, P. Kment & I.

Malenovský lgt. (PKPC). Nedašov, Jalovcová stráň NR (54), 3.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 17.vi.2006, 1 ♂, I. Malenovský lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR (117), 15.v.1998, 1 ♀, M. Horský & J. Horská lgt., 30.vi.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Lopeník, U Zvonice NM (155), 27.vi.2004, 3 ♂♂, 21.v.2005, 1 ♀, I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 9.–29.v.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Vyškovec, E slope of Vyškovec hill (174), 11.iv.2007, 1 ♂, O. Konvička lgt. (PKPC). Vyškovec, Pod Hřibovňou NM (176), 21.v.2005, 1 ♂, P. Kment lgt. (PKPC). Vyškovec, Ve Vlčí NR (177), 22.v.2005, 1 ♂, I. Malenovský lgt. (PKPC). Vyškovecké Bošačky, cattle pasture (179), 21.v.2005, 3 ♂♂, I. Malenovský lgt. (PKPC). Vyškovecké Bošačky, meadow and orchard (180), 8.v.2004, 1 ♂, 24.vii.2005, 1 ♂, P. Kment lgt. (PKPC). Radějov, Kútky NR (217), 7.vi.2008, 1 ♂, J. Ch. Vávra lgt. (OMOC); 4.–26.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.v.1998, 2 ♂♂, P. Kment lgt., 18.iv.2000, 5 ♂♂, P. Kment & I. Malenovský lgt. (PKPC, VURV). Suchovské Mlýny, sheep pasture (226), 26.v.2005, 1 ♂, 27.vii.2005, 1 ♂, I. Malenovský lgt. (PKPC). Suchovské Mlýny, meadow (227), 26.v.2005, 1 ♂, I. Malenovský lgt. (PKPC). Strání, Záhumenice, cattle pasture (265), 24.v.2001, 1 ♂, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area.

General distribution: West Eurosiberian. **Biology and habitat:** On *Leucanthemum vulgare*. In open habitats, particularly various kinds of meadows (especially dry and warm ones), rarely also in ruderal sites. Common (STEHLÍK 2002, WACHMANN *et al.* 2006). **Red List status:** –.

Catoplatus horvathi (Puton, 1878)

(VU)

Material examined. Velká nad Veličkou, Zahrady pod Hájem NNR (225), 9.–10.ix.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only in one xerothermic locality in the southern part of the area. **General distribution:** West Eurosiberian. **Biology and habitat:** On Apiaceae (*Bupleurum falcatum*, *Seseli osseum*, *Eryngium*) in xerothermic localities, especially dry grassland on rock. Rare (STEHLÍK 2002, WACHMANN *et al.* 2006). **Red List status:** Vulnerable.

Copium clavicornae clavicornae (Linnaeus, 1758)

Published records. KMENT (2001): Kněždub, Čertoryje NNR (202). STEHLÍK (2002): Radějov, Holý vrch hill (189); Kněždub, Čertoryje NNR (202); Javorník, Výzkum hill (258); Velká nad Veličkou (towards Javorník) (240).

Material examined. Nedašov, Jalovcová stráň NR (54), 30.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., 21.ix.2001, 1 ♂, 23.v.2002, 1 ♂, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 14.v.–4.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Kútky NR (217), 7.vi.2008, 1 ♂, J. Ch. Vávra lgt. (OMOC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, restricted to xerothermic sites. **General distribution:** North Mediterranean, extending to central Europe. **Biology and habitat:** On *Teucrium chamaedrys* in xerothermic localities (sands, dry grassland on rock). Widespread but rare (STEHLÍK 2002, WACHMANN *et al.* 2006). **Red List status:** –.

***Derephysia (Derephysia) foliacea* (Fallén, 1807)**

Published records. KMENT (2001): Kněždub, Čertoryje NNR (202). STEHLÍK (2002): Slavičín, 200 m W of the village (69); Lopeník, Mikulčín vrch hill (160); Radějov, Holý vrch hill (189).

Material examined. Petrůvka, U Petrůvky NM (14), 23.vi.–16.vii.2008, Mt, 1 ♂, 16.vii.–4.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nedašov, Pod Cigánem NM (91), 28.vii.2005, 6 ♂♂, I. Malenovský lgt. (PKPC). Lopeník, U Zvonice NM (155), 26.vi.–26.vii.2005, pt, 1 ♀, 26.vii.–26.viii.2005, pt, 2 ♂♂ 1 ♀, K. Resl lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 26.vi.–26.vii.2005, pt, 1 ♂, 26.vii.–26.viii.2005, pt, 1 ♂, K. Resl lgt., 24.vii.2005, 1 ♂, I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 19.vi.–11.vii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Vyškovec, Ve Vlčí NR (177), 14.viii.2001, 1 ♂, M. Horsák lgt. (PKPC). Radějov, Mandát brook valley below Kútky NR (218), 4.–26.vi.2008, Mt, 1 ♀, 26.vi.–15.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 1 ♂, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 1 ♂, I. Malenovský lgt. (PKPC); 25.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Hryzlácké Mlýny (246), 22.vi.–15.vii.2009, Mt, 1 ♂, 15.vii.–4.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Vápenky, Porážky NNR (247), 15.viii.1998, 1 ♂, I. Malenovský & M. Omesová lgt. (PKPC). Javorník, Machová NR (259), 18.vi.–9.vii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt., 15.vi.–13.vii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area.

General distribution: Holarctic (Holopalaeartic and Nearctic, missing in northern Africa). **Biology and habitat:** Polyphagous phytophage. Euryecious, in xerothermic to slightly humid, open habitats, as well as in dry, open forests. Common (STEHLÍK 2002).

Red List status: –.

***Dictyla convergens* (Herrich-Schaeffer, 1835)**

Material examined. Valašské Klobouky, U Rybníků (38), 22.v.1999, 1 ♂ 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only in one wetland locality in the northern part of the area. **General distribution:** European.

Biology and habitat: On *Myosotis palustris* in moist to damp habitats: peat bogs and peaty meadows, shores of ponds, and in valleys of streams. In Moravia distributed at medium altitudes, missing in warm southern Moravian lowland, as well as in high mountains. Locally common (STEHLÍK 2002, WACHMANN *et al.* 2006). **Red List status:** –.

***Dictyla echii* (Schrank, 1782)**

Material examined. Blatnička, Milejovské louky meadows (104), 16.viii.2009, 4 ♂♂ 2 ♀♀, P. Baňář lgt. et det. (MMBC). Žitková, Hutě NR (164), 9.–29.v.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), pasture above the orchard, on *Echium vulgare*, 8.viii.2007, 1 ♀ 1 exuvia, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Unexpectedly rare, collected only in the central parts of the area. **General distribution:** Holopalaeartic, found also in Canada (introduced?). **Biology and habitat:** On Boraginaceae (*Echium vulgare*, rarely *Anchusa officinalis*, *Cynoglossum officinale*, *Symphytum*) in dry places. Very common (STEHLÍK 2002, WACHMANN *et al.* 2006). **Red List status:** –.

***Dictyla humuli* (Fabricius, 1794)**

Published records. KMENT (2001): Kněždub, Čertoryje NNR (202). STEHLÍK (2002): Boršice [u Blatnice] (towards Hluk) (105).

Material examined. Valašské Klobouky, Suchý vrch hill (24), on *Symphytum officinale*, 21.v.1999, 1 ♂, M. Horský & P. Kment lgt. (PKPC). Suchov, Kazivec brook valley (116), 9.ix.1998, 4 ♂♂ 7 ♀♀, I. Malenovský & M. Omesová lgt. (PKPC). Strání, village (147), 16.v.1998, 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♂, P. Kment lgt. (PKPC). Radějov, Dolní Mlýn (195), on *Symphytum officinale*, 11.vii.1998, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Kejda pond (196), on *Symphytum officinale*, 14.vii.1998, 1 ♂, P. Kment lgt. (PKPC). Tvarožná Lhota, Lučina reservoir (199), 13.v.1998, 2 ♂♂ 2 ♀♀, 14.vii.1998, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 28.vii.2001, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 5.v.2000, 1 ♀, I. Malenovský lgt. (PKPC). Hrubá Vrbka, football ground (211), 8.vii.2000, 2 ♀♀, P. Kment lgt. (PKPC). Hrubá Vrbka, village (212), 27.–29.vi.2008, 1 ♀, Z. Malinka lgt. (ZMOC). Radějov, Kútky NR (217), 26.vi.–15.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, below Zahrady pod Hájem NNR (221), 18.iv.2000, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (MUBC, PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 13.vii.1998, 4 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC); 18.iv.2000, 1 ♂ 3 ♀♀, P. Kment & I. Malenovský lgt. (MUBC, PKPC); 25.vi.–15.vii.2009, Mt, 3 ♂♂ 4 ♀♀, 15.vii.–6.viii.2009, Mt, 2 ♂♂ 2 ♀♀, P. Chvojka, J. Ježek & M. Macek lgt., 7.iv.–5.v.2010, Mt, 1 ♀, P. Chvojka & M. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 15.vii.1998, 1 ♂, I. Malenovský & M. Omesová lgt. (PKPC); 6.iv.–12.v.2009, Mt, 1 ♂, 25.vi.–15.vii.2009, Mt, 5 ♂♂ 3 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, loampit (235), 30.vi.2008, 1 ♀, E. Ezer lgt. (EEZC). Javorník, railway station (237), under *Echium vulgare*, 8.viii.2001, 1 ♀, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 25.vi.–15.vii.2009, Mt, 16 ♂♂ 14 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Hryztlácké Mlýny (246), 22.vi.–15.vii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Vápenky, Velička brook valley below Hubertova bouda hut (253), 21.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Javorník, Machová NR (259), 18.vi.–9.vii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 9.vii.–2.viii.2007, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 2.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Strání, Javorina NNR, meadow (270), 15.vii.–6.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common in the southern part of the area, rare in the northern and central parts. **General distribution:** Eurosiberian.

Biology and habitat: On *Symphytum officinale*, rarely also on *Echium vulgare*, preferring humid habitats (wet meadows, shores of waters), rarely in drier places. Very common (STEHLÍK 2002, WACHMANN *et al.* 2006). **Red List status:** –.

***Dictyonota strichnocera* Fieber, 1844**

Published records. KMENT (2001): Kněždub, Čertoryje NNR (202). STEHLÍK (2002): Nová Lhota, Fojtičky mill [= Fojtické Mlýny] (245); Velká nad Veličkou (towards Javorník) (240).

Material examined. Horní Němčí, Drahy NR (117), 30.vi.2001, 4 ♂♂, P. Kment & I. Malenovský lgt., 21.vii.2002, 1 ♂, I. Malenovský lgt. (PKPC). Radějov, Žerotín NM (188), 26.vi.–14.vii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Čertoryje NNR (202), 24.vi.2011, 1 ♂, E. Ezer lgt. (EEZC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 13.vii.1998, 2 ♂♂ 1 ♀, P. Kment lgt., 19.vi.2000, 1 ♂, P. Kment lgt. (PKPC); 25.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 28.v.–18.vi.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Collected only in the southern part of the area, preferring warm sites. **General distribution:** European and central Asiatic. **Biology and habitat:** On *Cytisus scoparius*, *Genista germanica* and *G. tinctoria*

in xerothermic localities, absent from mountain areas. Widespread, not rare (STEHLÍK 2002, WACHMANN *et al.* 2006). **Red List status:** –.

***Elasmotropis testacea testacea* (Herrich-Schaeffer, 1830)**

Published record. STEHLÍK (2002): Boršice [u Blatnice] (towards Hluk) (105).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, not collected in the course of the recent survey. **General distribution:** West Palaearctic. **Biology and habitat:** On *Echinops sphaerocephalus* in xerothermic, open, often ruderal habitats, mostly in warm lowlands. Not rare (STEHLÍK 2002, WACHMANN *et al.* 2006). **Red List status:** –.

Comments. Regarded as an alien species in the fauna of the Czech Republic, although its occurrence in the country is documented since the 19th century (KMENT 2006).

***Galeatus maculatus* (Herrich-Schaeffer, 1838) (VU)**

Material examined. Lipov, Pešunk (100), 10.vii.2009, 1 spec. (br), E. Ezer lgt. (EEZC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only in one xerothermic site in the southern part of the area. **General distribution:** European. **Biology and habitat:** On *Hieracium pilosella*, rarely also on other plants, in xerothermic localities, mostly on sandy or rocky substrates. In Moravia restricted to the Pannonicum, rare (STEHLÍK 2002, WACHMANN *et al.* 2006). **Red List status:** Vulnerable.

***Galeatus sinuatus* (Herrich-Schaeffer, 1838)**

Published record. STEHLÍK (2002): Bylnice, Bylnický potok brook, Na Tatrách [= Bylničky, Tarandové hill] (80).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, not found in the course of the recent survey. **General distribution:** European, extending to Kazakhstan. **Biology and habitat:** On Lamiaceae (*Phlomis*, *Lamium*, *Ballota*, *Salvia*) in xerothermic habitats on sands or limestone. Very rare (STEHLÍK 2002, WACHMANN *et al.* 2006). **Red List status:** –.

Comments. The three males collected near Bylnice in 1982 represent the only record for the Czech Republic so far (STEHLÍK 2002).

***Kalama tricornis* (Schrank, 1801)**

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 25.viii.–23.ix.2008, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Brumov, Uhličky (44), 4.ix.2005, 1 ♂, P. Kment lgt. (PKPC). Nedašov, Hrušová dolina valley (53), 20.v.1999, 1 ♀, 3.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráň NR (54), 3.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, meadow E of Jalovcová stráň NR (59), 30.vi.2004, 1 ♂, I. Malenovský lgt. (PKPC). Petrůvka, Kladenka brook valley (64), 3.–23.vi.2008, Mt, 2 ♂♂, P. Chvojka, J.

Ježek & J. Macek lgt. (NMPC). Hluk, Kobylí hlava NM (101), 24.viii.2002, 1 ♂, I. Malenovský lgt. (PKPC). Hluk, Babí hora NM (102), 24.viii.2002, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♂, P. Kment & I. Malenovský lgt., 24.vii.–22.viii.2003, pt, 2 ♂♂, K. Resl lgt. (PKPC). Horní Němčí, Vinohrádky (121), 22.v.–22.vi.2003, pt, 2 ♂♂, 22.vi.–24.vii.2003, pt, 3 ♂♂ 2 ♀♀, 22.viii.–27.ix.2003, pt, 16 ♂♂ 11 ♀♀, K. Resl lgt. (PKPC). Březová, spring fen 600 m SE below Studený vrch hill (138), 5.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 26.vii.–26.viii.2005, pt, 2 ♂♂ 1 ♀, 26.viii.–28.ix.2005, pt, 2 ♀♀, K. Resl lgt. (PKPC). Výškovecké Bošačky, meadow and orchard (180), 3.ix.2005, 1 ♂, I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 17.viii.2002, 2 ♂♂, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 6.–24.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 23.vi.2004, 1 ♂, 1.x.2004, 1 ♂, I. Malenovský lgt., 6.viii.–8.ix.2005, pt, 1 ♂, K. Resl lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 1.x.2004, 1 ♂, I. Malenovský lgt. (PKPC). Trnovský Mlýn, meadow (229), 1.x.2004, 1 ♂, 27.vii.2005, 2 ♂♂, 1.ix.2005, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 2.–25.vi.2009, Mt, 1 ♂, 24.viii.–14.ix.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 1.ix.2005, 1 ♂, I. Malenovský lgt. (PKPC). Vápenky, Porážky NNR (247), 15.vii.1998, 1 ♂, I. Malenovský & M. Omesová lgt. (PKPC). Vápenky, Velička brook valley below Hubertova bouda hut (253), 21.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 13.vii.–10.viii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 28.v.–18.vi.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 21.ix.2001, 1 ♂ 1 ♀, I. Malenovský lgt. (KHMC, PKPC); 20.vii.2002, 2 ♂♂, I. Malenovský lgt., 22.vi.–24.vii.2003, pt, 5 ♂♂ 1 ♀, 24.vii.–22.viii.2003, pt, 1 ♂, K. Resl lgt. (PKPC). Strání, Záhumenice NM (266), 24.v.2001, 1 ♀, I. Malenovský lgt., 22.viii.–27.ix.2003, pt, 2 ♀♀, K. Resl lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Holarctic (Holopalaearctic and Nearctic). **Biology and habitat:** Polyphagous phytophage. Euryecious, in xerothermic to moister, open habitats, although preferring dry sites. Common (STEHLÍK 2002, WACHMANN *et al.* 2006). **Red List status:** –.

Lasiacantha capucina capucina (Germar, 1837)

Published record. HOBERLANDT (1942, misidentified as *L. gracilis*): Javorník (7171).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, not recorded in the course of the recent survey. **General distribution:** West Eurosiberian. **Biology and habitat:** On and under *Thymus*, especially *T. serpyllum*, predominantly in xerothermic localities (sands, dry grassland on limestone), rarely on moist sites. Common (STEHLÍK 2002, WACHMANN *et al.* 2006). **Red List status:** –.

[*Lasiacantha gracilis* (Herrich-Schaeffer, 1830)]

Published record. HOBERLANDT (1942): Javorník (7171).

Comments. STEHLÍK (2002) corrected the misidentification by HOBERLANDT (1942) to *L. capucina*. There is no confirmed record of *L. gracilis* for Moravia (STEHLÍK 2002).

Oncochila scapularis (Fieber, 1844)

Published record. STEHLÍK (2002): Bylnice, Bylnický potok brook, Na Tatrách [= Bylničky, Tarandové hill] (80).

Material examined. Nedašov, Jalovcová stráž NR (54), 3.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt., 28.v.2005, 1 ♂, I. Malenovský lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 4 ♂♂, P. Kment lgt., 21.vii.2002, 2 ♂♂, I. Malenovský lgt. (PKPC). Radějov, Kútky NR (217), 7.vi.2008, 1 ♀, J. Ch. Vávra lgt. (OMOC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 9.–10.ix.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Javorník, loampit (235), 24.v.2002, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, confined to xerothermic localities throughout the area. **General distribution:** South Eurosiberian. **Biology and habitat:** On *Euphorbia* (*E. cyparissias*, *E. sequeirana*) in xerothermic localities; absent from mountain areas. Not rare (STEHLÍK 2002, WACHMANN *et al.* 2006). **Red List status:** –.

Physatocheila costata (Fabricius, 1794)

Material examined. Radějov, Měsíční údolí valley (214), 8.ix.1998, on *Alnus* sp., 1 ♀, I. Malenovský & M. Omesová lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 12.iv.–8.v.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only in two sites in the southern part of the area. **General distribution:** Eurosiberian. **Biology and habitat:** On *Alnus* (*A. glutinosa*, *A. incana*, *A. viridis*) in floodplain forests and vegetation along streams and ponds. Rare (STEHLÍK 2002, WACHMANN *et al.* 2006). **Red List status:** –.

Physatocheila dumetorum (Herrich-Schaeffer, 1838)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Brumovka brook valley, along railway (28), 19.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 2.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, NW slope of Královec hill (35) and U Rybníků (38), 10.ix.1999, 1 ♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 23.viii.2002, 2 ♀♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, meadow (48), 19.v.1999, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 16.viii.2006, 5 ♂♂ 2 ♀♀ 1 L, P. Kment lgt. (PKPC). Hluk, Babí hora NM (102), 24.viii.2002, 2 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 2.v.2001, 1 ♂, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 28.vii.2001, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 13.vii.1998, 1 ♀, P. Kment lgt., 18.iv.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC); 19.vi.2000, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC, VURV); 24.vii.2000, 2 ♂♂, I. Malenovský lgt., 9.–10.ix.2000, 2 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt., 17.ix.2004, 1 ♂, M. Horsák lgt. (MHBC). Javorník, Jazevčí NNR (232), 6.v.2000, 1 ♂ 2 ♀♀, I. Malenovský lgt., 10.ix.2000, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 5.–24.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, loampit (235), 24.v.2002, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 6.iv.–12.v.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, meadow (243), beating of *Crataegus* sp., 8.viii.2001, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Strání, Záhumenice NM (266), 9.ix.–22.x.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** South Eurosiberian. **Biology and habitat:** On woody Rosaceae (*Prunus*, *Pyrus*, *Crataegus*). Euryecious, preferring warm sites, absent from mountain areas. Common (STEHLÍK 2002, WACHMANN *et al.* 2006). **Red List status:** –.

Physatocheila harwoodi* China, 1936*(Fig. 2)**

Material examined. Sidonie, Sidonie NR (87), 5.–25.v.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC).

Additional material examined. MORAVIA: Nové Zámky (6268), under bark of *Acer pseudoplatanus*, 19.x.2007, 1 ♂, F. Štáhlavský lgt. (NMPC). Adamov (6665–66, 6765–66), 17.ii.2004, 1 ♂ 1 ♀, R. Schles lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, found only in one locality in the northern part of the area. **General distribution:** Central European; known from Austria, Czech Republic, France, Great Britain, Germany, Italy, ?Poland, Slovenia, and Switzerland (PÉRICART & GOLUB 1996, DI GIULIO *et al.* 2000, LIS 2001). **Biology and habitat:** On *Acer*, especially on *A. pseudoplatanus*; adults overwinter under scales of the bark. Rare, mostly occurring at medium and high elevation (WACHMANN *et al.* 2006). **Red List status:** –.

Comments. There has been only a single record of *P. harwoodi* from the Czech Republic, two specimens collected in 1988 in Lednice (71–7266) in southern Moravia (LIS 2001). We provide here additional records for Moravia.

***Tingis (Neolasiotropis) pilosa* Hummel, 1825**

Material examined. Valašské Klobouky, Královce hill (33), on *Galeopsis speciosa*, 17.viii.2006, 6 ♂♂ 8 ♀♀ 4 L, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 29.viii.2005, 1 spec., M. Horský lgt. (MHBC). Javorník, Machová NR (259), 8.–28.v.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** Holopalaeartic. **Biology and habitat:** On Lamiaceae (especially *Lamium album*, *L. purpureum* and *Galeopsis tetrahit*). Mesophilous, often in shaded habitats, such as the vegetation along streams and ponds, in forest clearings and along forest margins, floodplain forests, as well as in dry and sunny ruderal sites with the host plants. Common (STEHLÍK 2002, WACHMANN *et al.* 2006). **Red List status:** –.

Comments. *Galeopsis speciosa* is confirmed here as a host plant of *T. pilosa*.

***Tingis (Tingis) ampliata* (Herrich-Schaeffer, 1838)**

Published records. KMENT (2001): Kněždub, Čertoryje NNR (202). STEHLÍK (2002): Slavičín, 200 m W of the village (69); Horní Němčí, Hornoněmčanský háj forest (169); Javorník, Výzkum hill (258).

Material examined. Nedašov, Jalovcová stráž NR (54), 20.v.1999, 5 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt. (MUBC, PKPC); 3.vii.1999, 2 ♂♂, P. Kment & I. Malenovský lgt., 16.viii.2006, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55), 17.vi.2006, 1 ♂, I. Malenovský lgt. (PKPC). Nedašov, meadow E of Jalovcová stráž NR (59), 30.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Louka, Hloží NR (106), 24.iv.1999, 1 ♂, M. Horský lgt. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Vápenice, V Krátkých (170), 6.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Malá Vrbka, Vojšické louky meadows (207), 17.iv.2000, 2 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 2.v.2001, 1 ♂, I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 18.iv.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 3.v.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Javorník, loampit (235), 24.v.2002, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 3.v.2001, 1 ♀, P. Kment & I.

Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 3.v.2001, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 24.v.–15.vi.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 8.v.2000, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 12.iv.–8.v.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** Eurosiberian. **Biology and habitat:** On *Cirsium* (especially *C. arvense*, also *C. palustre* and *C. vulgare*), mostly in humid sites (shores of bodies of water, floodplain forests, wet meadows). Common (STEHLÍK 2002, WACHMANN *et al.* 2006). **Red List status:** –.

Tingis (Tingis) auriculata (A. Costa, 1847)

Material examined. Horní Němčí, Vinohrádky (121), 23.v.2002, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Vyškovecké Bošačky, cattle pasture (179), 27.vi.2004, 2 ♀♀, I. Malenovský lgt. (PKPC). Radějov, Žerotín NM (188), 14.v.–4.vi.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected on xerothermic sites in the south and centre of the area. **General distribution:** West Palaearctic, introduced to the USA. **Biology and habitat:** On Apiaceae (especially *Daucus carota* and *Torilis arvensis*). A thermophilous species, often occurring in ruderal sites. Rare (STEHLÍK 2002, WACHMANN *et al.* 2006). **Red List status:** –.

Comments. In Moravia, *T. auriculata* has been discovered only recently in the Pavlovské kopce hills (7165) by STEHLÍK (2002) and subsequently it has been recorded from several additional localities in southern Moravia, evidently spreading northwards (BRYJA *et al.* 2002, MALENOVSKÝ *et al.* 2011).

Tingis (Tingis) cardui (Linnaeus, 1758)

Published records. STEHLÍK (2002): Bánov (7072); Horní Němčí (7071); Radějov (7170).

Material examined. Poteč, Ploščiny NR (42), 1.vi.2002, 1 ♀, I. Malenovský lgt. (PKPC). Petrůvka, Kladenska brook valley (64), 13.v.–3.vi.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Bylnice, railway station environs (83), 21.v.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Horní Němčí, Drahy NR (117), 13.viii.2001, 1 ♂, P. Kment lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♂, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 2.v.2001, 2 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Radějov, Měsíční údolí valley (214), 8.ix.1998, 1 ♀, I. Malenovský & M. Omesová lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 18.iv.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Javorník, village (239), 8.viii.2001, 1 ♂, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 12.v.–2.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 7.iv.–12.v.2009, Mt, 1 ♂ 1 ♀, 3.–22.vi.2009, Mt, 2 ♂♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 8.–28.v.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** Holopalaearctic. **Biology and habitat:** On *Cirsium* (*C. vulgare*, *C. palustre*), more rarely on *Carduus* (*C. acanthoides*, *C. nutans*, *C. crispus*). Euryecious, often in ruderal sites. Very common (STEHLÍK 2002, WACHMANN *et al.* 2006). **Red List status:** –.

***Tingis (Tingis) crispata* (Herrich-Schaeffer, 1838)**

Material examined. Malá Vrbka, Výzkum hill, restored grassland (208), 2.v.2001, 1 ♂, P. Kment lgt. (PKPC). Velká nad Veličkou, below Zahrady pod Hájem NNR (221), 18.iv.2000, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, railway station (237), 9.vii.1998, 1 ♀, P. Kment lgt. (PKPC). Javorník, Machová NR (259), 12.iv.–8.v.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only in the southern part of the area. **General distribution:** South Eurosiberian. **Biology and habitat:** On *Artemisia vulgaris* and *A. absinthium*. In xerothermic, rarely also slightly humid localities, especially on sandy substrates. Common (STEHLÍK 2002, WACHMANN *et al.* 2006). **Red List status:** –.

***Tingis (Tropidocheila) reticulata* Herrich-Schaeffer, 1835**

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Poteč, Ploštiny NR (42), 11.ix.2011, 1 ♀, E. Ezer lgt. (EEZC). Nedašov, Pod Cigánem NM (91), 5.x.2004, 1 ♂, I. Malenovský lgt. (PKPC). Lopeník, U Zvonice NM (155), 21.v.2005, 1 ♂, I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, 200 m NW of the top (209), 13.ix.2004, 1 ♀, M. Horský lgt. (MHBC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 18.iv.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, but rare. **General distribution:** West Eurosiberian. **Biology and habitat:** On *Ajuga reptans*; both larvae and adults were also found on *Verbascum*. Euryecious, with a preference for more humid, often shaded, habitats, e.g. shores of ponds and banks of rivers, forest clearings and floodplain forests. Common (STEHLÍK 2002, WACHMANN *et al.* 2006). **Red List status:** –.

Family MIRIDAE

***Acetropis (Acetropis) carinata* (Herrich-Schaeffer, 1841)**

Material examined. Strání, Obecnice hill, at transmission tower (144), 2.vii.2001, 1 ♀, 23.v.2002, 2 ♂♂ 4 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Strání, Důbrava hill (150), 7.vii.1980, 1 ♀, L. Pospíšilová lgt. (MMBC). Javorník, Petruchovy Mlýny, cattle pasture (242), 24.v.2002, 1 ♀, I. Malenovský lgt. (PKPC). Strání, Záhumenice, cattle pasture (265), 23.v.2002, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, found only in the environs of Strání and Javorník. **General distribution:** European, extending to Maghreb, Anatolia and Kazakhstan. **Biology and habitat:** On Poaceae, preferring dry and open habitats (sands, pastures), less frequently in half-shade, e.g. in open pine forests. Not rare (WACHMANN *et al.* 2004). **Red List status:** –.

***Acetropis (Acetropis) longirostris* Puton, 1875**

Material examined. Petrůvka, U Petrůvky NM (14), 13.v.–3.vi.2008, Mt, 1 ♂, 3.–23.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Žitková, Hutě NR (164), 9.–29.v.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC).

Additional material examined. MORAVIA: Bransouze env., alluvium of Jihlava river, meadows between Bransouze and Dolní Smrčné (6660), 2.vi.2011, 1 ♂ 3 ♀♀ (1 ♂ 1 ♀ observed sucking on *Alopecurus pratensis*), P. Kment lgt. (PKPC). Dačice – Toužín, Toužínské stráně NM (6958), 23.v.2008, 2 ♂♂ 1 ♀ (freshly hatched), 7.vi.2008, 1 spec. (freshly hatched), 14.vi.2009, 2 ♀♀, A. Lacina lgt. (ALDC, PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only in two sites in north and centre of the area with Malaise traps. **General distribution:** East European-Kazakh species, expanding to Pannonicum. **Biology and habitat:** On *Alopecurus pratensis* (KOPPÁNYI 1965, ŠTYS 1974, WACHMANN *et al.* 2004; this paper). In open to half-shaded, dry to quite humid meadows, especially along rivers; also in salt marshes (WACHMANN *et al.* 2004, HRADIL *et al.* 2008). In Moravia, it seems to prefer higher altitudes (BRYJA & KMENT 2002, HRADIL *et al.* 2008). **Red List status:** –.

Comments. A recently expanding species in Moravia. Its distribution was reviewed by BRYJA & KMENT (2002) and HRADIL *et al.* (2008), with an additional locality, Ostrava – Hrabová (6275), given by ROHÁČOVÁ (2011). Here we document its further spreading; the records from the environs of Dačice and Ostrava represent the westernmost and northernmost records of the species, respectively, indicating it may spread further to the west into Bohemia and to the north into Poland in a near future.

Adelphocoris lineolatus (Goeze, 1778)

Published records. KMENT (2001): Kněždub, Čertoryje NNR (202). KMENT & MALENOVSKÝ (2008): Nedašov, Jalovcová stráně NR (54).

Material examined. Petrůvka, U Petrůvky NM (14), 3.–23.vi.2008, Mt, 1 ♂, 23.vi.–16.vii.2008, Mt, 1 ♂, 4.–25.viii.2008, Mt, 2 ♂♂ 1 ♀, 25.viii.–23.ix.2008, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Poteč, Ploštiny NR (42), 24.viii.2002, 1 ♀, 17.viii.2006, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Brumov, Uhličky (44), 1.ix.2004, 1 ♂ 2 ♀♀, I. Malenovský lgt., 28.vii.2005, 1 ♂ 3 ♀♀, 4.ix.2005, 2 ♂♂ 4 ♀♀, P. Kment lgt. (PKPC). Nedašov, pastures (53), 3.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráně NR (54), 25.viii.2002, 1 ♀, P. Kment lgt., 30.vi.2004, 1 ♀, 1.ix.2004, 8 ♂♂ 9 ♀♀, 28.vii.2005, 1 ♂, I. Malenovský lgt., 16.viii.2006, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráně NR (54) and along road to Nedašov (52), 10.ix.1999, 1 ♂ 4 ♀♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Kaňoury NM (55), 3.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC); 12.vii.2006, 1 spec., P. Kment observ. Štítná nad Vláří, south-exposed slopes N of the village (74), 10.vii.2006, 1 ♀, O. Konvička lgt. (NMPC). Brumov, Kloboucká street (76), 30.vi.2004, 1 ♂, I. Malenovský lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 2 ♂♂ 1 ♀, 18.viii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Bylnice (78), 12.ix.1978, 1 ♀, B. Dobšík lgt. (MMBC). Bylničky, Tarandové hill (80), 24.vi.1982, 1 ♀, P. Lauterer lgt. (MMBC). Bylnice, Lazy NR and environs (82), 12.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Bylnice, railway station environs (83), 1.vii.1999, 1 ♀, P. Kment & M. Omesová lgt., 11.ix.1999, 2 ♀♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 6.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Lipov, Pešunk (100), 27.vi.2008, 1 ♂ 1 ♀, 10.vii.2009, 1 spec., Z. Malinka lgt. (ZMOC). Hluk, Kobyly hlava NM (101), 24.viii.2002, 1 ♂, I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 24.v.2009, 8 ♂♂ 9 ♀♀, 11.vii.2009, 4 ♂♂ 7 ♀♀, P. Baňaf lgt. et det. (MMBC). Boršice u Blatnice, Boršický potok brook valley (105), 16.viii.1984, 1 ♀, P. Lauterer lgt. (MMBC). Korytná (115), 23.vii.1951, 1 ♀, J. L. Stehlík lgt. (MMBC). Suchov, Kazivec brook valley (116), 9.ix.1998, 2 ♀♀, I. Malenovský & M. Omesová lgt. (PKPC). Horní Němčí, Drahy NR (117), 10.ix.1998, 3 ♀♀, I. Malenovský & M. Omesová lgt., 30.vi.2001, 2 ♂♂ 2 ♀♀, P. Kment & I. Malenovský lgt., 13.viii.2001, 3 ♂♂ 1 ♀, 21.ix.2001, 1 ♀, P. Kment lgt., 21.vii.2002, 2 ♂♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Horní Němčí, Vinohrádky (121), 30.vi.2001, 2 ♂♂, 10.ix.2002, 1 ♀, I. Malenovský lgt. (PKPC). Horní Němčí, Lesná hill (123), 24.vii.1980, 1 ♀, J. L. Stehlík lgt. (MMBC). Bánov, Skalky hill (125), 21.viii.1984, 3 ♀♀, P. Lauterer, J. Stehlík & P. Raus lgt. (MMBC). Strání, Obecnice hill, at transmission tower (144), 23.v.2002, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 18.viii.2004, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Žitková, Hutě NR (164), 29.v.–19.vi.2007, Mt, 2

♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 1 ♂ 3 ♀♀, 22.ix.2007, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Výskovecké Bošacky, cattle pasture (179), 24.vii.2005, 1 ♂, P. Kment lgt., 3.ix.2005, 6 ♂♂ 7 ♀♀, I. Malenovský lgt. (PKPC). Výskovecké Bošacky, meadow and orchard (180), 19.viii.2004, 1 ♀, P. Kment lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 19.viii.2002, 1 ♂ 1 ♀, P. Kment lgt. (PKPC); 26.vi.–14.vii.2008, Mt, 1 ♂, 14.vii.–5.viii.2008, Mt, 2 ♂♂, 5.–26.viii.2008, Mt, 2 ♂♂, 26.viii.–24.ix.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Kněždubský háj forest (197), 28.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Kněždub, Čertoryje NNR (202), 22.vi.2001, 2 ♂♂, P. Kment lgt., 27.vi.2002, 3 ♀♀, I. Malenovský lgt., 17.viii.2002, 2 ♂♂ 4 ♀♀, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 12.viii.–9.ix.2010, Mt, 10 ♂♂, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, Výzkum hill, restored grassland (208), 25.v.2000, 1 ♂, P. Kment lgt., 18.vi.2000, 2 ♂♂ 7 ♀♀, I. Malenovský lgt., 8.vii.2000, 1 ♀, P. Kment lgt., 27.vii.2000, 3 ♀♀, I. Malenovský lgt., 4.viii.2000, 2 ♀♀, 16.viii.2000, 5 ♂♂ 3 ♀♀, 22.vi.2001, 1 ♂, 28.vii.2001, 1 ♂, 17.viii.2002, 2 ♀♀, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 8.vii.2000, 1 ♀, 16.viii.2000, 1 ♂ 1 ♀, P. Kment lgt. (PKPC); 20.ix.2001, 1 ♀, M. Omesová lgt. (MUBC). Hrubá Vrbka, village (212), 27.–29.vi.2008, 6 ♂♂ 1 ♀, 9.–12.vii.2009, 1 ♂, Z. Malinka lgt. (ZMOC). Radějov, Měsíční údolí valley (214), 8.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt. (PKPC); along road to Radějov, 16.viii.2009, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 13.vii.1998, 2 ♂♂, P. Kment lgt., J. Bryja det., 19.vi.2000, 1 ♂ 1 ♀, P. Kment lgt., 24.vii.2000, 1 ♂ 1 ♀, I. Malenovský lgt., 18.viii.2000, 1 ♂ 3 ♀♀, P. Kment lgt., 9.–10.ix.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 30.vi.2008, 1 ♂, Z. Malinka lgt. (ZMOC); 2.–25.vi.2009, Mt, 1 ♂ 1 ♀, 25.vi.–15.vii.2009, Mt, 2 ♂♂, 6.–24.viii.2009, Mt, 1 ♂, 24.viii.–14.ix.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 16.viii.2004, 1 ♂ 1 ♀, 27.vii.2005, 1 ♀, 1.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Suchovské Mlýny, meadow (227), 1.x.2004, 1 ♀, 27.vii.2005, 1 ♂, I. Malenovský lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 16.viii.2004, 3 ♀♀, P. Kment lgt., 1.ix.2005, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Trnovský Mlýn, meadow (229), 27.vii.2005, 1 ♂ 1 ♀, 1.ix.2005, 1 ♂ 5 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 1 ♀, I. Malenovský lgt., 18.viii.2000, 2 ♀♀, P. Kment lgt. (PKPC); 2.–25.vi.2009, Mt, 3 ♂♂, 25.vi.–15.vii.2009, Mt, 4 ♂♂, 5.–24.viii.2009, Mt, 6 ♂♂, 24.viii.–14.ix.2009, Mt, 1 ♂, 14.ix.–22.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, loampit (235), 24.v.2002, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Nad Vápenkou NM (236), 7.ix.2002, 3 ♀♀, I. Malenovský lgt. (PKPC). Javorník, village (239), 8.viii.2001, 1 ♂, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 15.vii.–5.viii.2009, Mt, 1 ♂, 5.–24.viii.2009, Mt, 1 ♀, 24.viii.–14.ix.2009, Mt, 3 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 8.viii.2001, 1 ♂, P. Kment lgt., 17.vii.2002, 3 ♂♂ 2 ♀♀, 7.ix.2002, 2 ♂♂ 4 ♀♀, 2.ix.2004, 11 ♂♂ 6 ♀♀, 27.vii.2005, 1 ♂ 1 ♀, 1.ix.2005, 5 ♂♂ 11 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 29.vi.2001, 2 ♂♂, 23.ix.2001, 3 ♀♀, P. Kment lgt., 23.vi.2004, 4 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Machová NR (259), 2.–22.viii.2007, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt., 15.vi.–13.vii.2010, Mt, 2 ♂♂, P. Chvojka & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 21.ix.2001, 4 ♀♀, 20.vii.2002, 1 ♂ 1 ♀, 12.ix.2002, 1 ♂ 2 ♀♀, I. Malenovský lgt., 22.vi.–24.vii.2003, pt, 1 ♀, K. Resl lgt. (PKPC). Strání, Záhumenice NM (266), 2.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt., 9.viii.2001, 1 ♀, P. Kment lgt., 21.ix.2001, 1 ♀, 12.ix.2002, 1 ♀, I. Malenovský lgt. (PKPC); 9.vii.–12.viii.2010, Mt, 2 ♂♂, 12.viii.–9.ix.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 15.vii.–6.viii.2009, Mt, 1 ♀, 6.–24.viii.2009, Mt, 3 ♂♂ 2 ♀♀, 24.viii.–17.ix.2009, Mt, 3 ♂♂ 2 ♀♀, 17.ix.–21.x.2009, Mt, 2 ♂♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Holopalaearctic, introduced to North America. **Biology and habitat:** On Fabaceae (*Medicago*, *Trifolium*, *Ononis*, *Lathyrus*, *Astragalus*). Euryecious, in xerothermic as well as mesic, rarely also humid, habitats, including ruderal sites. Very common (WACHMANN *et al.* 2004). **Red List status:** –.

Adelphocoris quadripunctatus (Fabricius, 1794)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 4.–25.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 1 ♀, J. L. Stehlík lgt. (MMBC). Bylnice (78), 6.ix.1978, 1 ♀, B. Dobšík lgt. (MMBC). Bylnice, railway station environs (83), 11.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Lipov, Pešunk (100), 10.vii.2009, 1 ♀, Z. Malinka lgt. (ZMOC). Boršice u Blatnice, Boršický potok brook valley (105), 16.viii.1984, 5 ♂♂ 1 ♀ 1 L, P. Lauterer & J. L. Stehlík lgt. (MMBC). Bánov, Skalky hill (125), 21.viii.1984, 2 ♀♀, J. L. Stehlík lgt. (MMBC). Starý Hrozenkov, Hrozenkovské terasy (167), 8.viii.2007, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 9.ix.–22.x.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, between village and Výzkum hill (205), 16.viii.2000, 2 ♀♀, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 18.viii.2000, 1 ♂ 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** Eurosiberian. **Biology and habitat:** On *Urtica dioica*, rarely also on other plants. In places with humid microclimate, such as forest edges and clearings. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Adelphocoris reichelii (Fieber, 1836)

(VU)

Published record. STEHLÍK (1948): “Korytná 1944 (lgt. V. Lang)” (7071–72).

Additional material examined. MORAVIA: Životice (6474), 12.vii.1963, natural xerothermic grassland, 1 spec. (freshly hatched), L. Pospíšilová lgt. (MMBC). Loučka near Valašské Meziříčí (6572), sunny grassland below a forest, 400 m a.s.l., 15.viii.1963, 8 ♂♂ 11 ♀♀, L. Pospíšilová lgt. (MMBC, NMPC). Pustiměř (6668), W of the village, “Vinohrady”, 350 m a.s.l., 22.vii.1966, 1 ♂, I. Vavřínová lgt. (MMBC). Brno, Kníničská přehrada dam (6765), 8.viii.1957, 1 ♀, P. Lauterer lgt. (MMBC). Archlebov (6967–68), meadows, forest margins and undergrowth, 4.viii.1970, 3 ♂♂, J. L. Stehlík lgt. (MMBC). Žarošice (6976), 8.viii.1962, 5 ♂♂ 4 ♀♀ (2 ♂♂ freshly hatched), P. Lauterer lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, not collected in the course of the recent survey. **General distribution:** Eurosiberian. **Biology and habitat:** On *Melampyrum* (especially *M. pratense*), more rarely on various Fabaceae. Preferring half-shaded forests, forest edges and sparse shrubberies. Rare (WACHMANN *et al.* 2004). **Red List status:** Vulnerable.

Comments. In Moravia known only from Kelč (6572) (STEHLÍK 1946a), Uherské Hradiště (6970), Míkovice (6971), Bořetice (7067) (HOBERLANDT 1947), Kobylí (7067) and Korytná (STEHLÍK 1948). We do not register any additional Moravian record after 1970. The localisation of the single White Carpathian record is problematical, as the labels by Veleslav Lang stating “Korytná” correspond to material sampled by him in August 12–15, 1944 in several localities: Porážky NNR, Lesná hill, Studený kopec hill near Suchá Loz, the environs of the current Kalábová NM near Březová, and Lipiny forest near Korytná (LANG 1945; I. Malenovský, pers. comm.).

Adelphocoris seticornis (Fabricius, 1775)

Published records. STEHLÍK (1948): Korytná (7071–72). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 23.vi.–16.vii.2008, Mt, 5 ♂♂, 16.vii.–4.viii.2008, Mt, 1 ♂, 25.viii.–23.ix.2008, Mt, 3 ♂♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 3 ♂♂ 4 ♀♀, M. Horsák & P. Kment lgt. (MUBC, PKPC); 9.ix.1999, 2 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 2.vii.1999, 1 ♂, P. Kment & I. Malenovský

lgt. (PKPC). Poteč, Ploštiny NR (42), 13.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt., 24.viii.2002, 1 ♀, 17.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Brumov, Uhlíčky (44), 1.ix.2004, 2 ♂♂, I. Malenovský lgt., 28.vii.2005, 1 ♀, 4.ix.2005, 3 ♂♂ 5 ♀♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt., 14.viii.2006, 2 ♂♂, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 25.viii.2002, 2 ♀♀, P. Kment lgt., 1.ix.2004, 1 ♂ 3 ♀♀, 28.vii.2005, 1 ♂ 5 ♀♀, I. Malenovský lgt., 12.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54) and along road to Nedašov (52), 10.ix.1999, 3 ♀♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 2 ♀♀, P. Kment & I. Malenovský lgt., 16.viii.2006, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 1 ♀, L. Pospíšilová lgt., 1 ♂ 2 ♀♀, J. L. Stehlík lgt. (MMBC). Hostětín (70), 10.viii.1970, 1 ♀, L. Pospíšilová lgt. (MMBC). Pitín (72), 20.vii.1957, 1 ♂, Ondřej lgt. (MMBC). Brumov, Kloboucká street (76), 30.vi.2004, 2 ♂♂ 3 ♀♀, 2.ix.2004, 2 ♂♂ 1 ♀, I. Malenovský lgt., 4.ix.2005, 1 ♀, P. Kment lgt. (PKPC). Bylnice, Na Stráži (77), 18.viii.2006, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 1 ♂, P. Kment & M. Omesová lgt., 12.ix.1999, 2 ♀♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Bylnice, railway station environs (83), 1.vii.1999, 2 ♂♂, P. Kment & M. Omesová lgt., 11.ix.1999, 1 ♂ 2 ♀♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 1.ix.2004, 7 ♂♂ 6 ♀♀, 5.x.2004, 2 ♂♂ 1 ♀, 6.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Lipov, Pešunk (100), 27.vi.2008, 1 ♀, 10.vii.2009, 1 ♀, Z. Malinka lgt. (ZMOC). Hluk, Babí hora NM (102), 24.viii.2002, 1 ♂, I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 24.v.2009, 5 ♂♂ 2 ♀♀, 11.vii.2009, 4 ♂♂ 4 ♀♀, P. Baňář lgt. et det. (MMBC). Boršice u Blatnice, Boršický potok brook valley (105), 16.viii.1984, 2 ♂♂, P. Lauterer lgt. (MMBC). Korytná (115), 23.vii.1951, 1 ♂ 1 ♀, J. L. Stehlík lgt. (MMBC). Suchov, Kazivec brook valley (116), 9.ix.1998, 1 ♀, I. Malenovský & M. Omesová lgt. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 5 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt., 21.vii.2002, 1 ♂, I. Malenovský lgt. (PKPC). Horní Němčí, Lesná hill (123), 24.vii.1980, 1 ♀, J. L. Stehlík lgt. (MMBC). Bánov, Skalky hill (125), 21.viii.1984, 1 ♂ 1 ♀, P. Raus & J. L. Stehlík lgt. (MMBC). Strání, Důbrava hill (150), 7.vii.1980, 1 ♀, P. Lauterer lgt. (MMBC). Lopeník, U Zvonice NM (155), 27.vi.2004, 1 ♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 25.ix.2004, 1 ♂, I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 19.vi.–11.vii.2007, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♀, 8.viii.2007, 1 ♂, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 2 ♂♂ 4 ♀♀, 8.viii.2007, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Výskovec, Pod Hřibovňou NM (176), 24.vii.2005, 1 ♀, P. Kment lgt., 3.ix.2005, 2 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Výskovecké Bošačky, cattle pasture (179), 24.vii.2005, 1 ♂ 1 ♀, P. Kment lgt., 3.ix.2005, 6 ♂♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Výskovecké Bošačky, meadow and orchard (180), 27.vi.2004, 2 ♂♂, I. Malenovský lgt., 19.viii.2004, 1 ♂, P. Kment lgt. (PKPC). Petrov [as Pavlov u Radějova] (182), vi.1946, 1 ♂ 1 ♀, Raušer (MMBC). Petrov, Chorvátky (185), 19.viii.2002, 3 ♀♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 26.vi.–14.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♂, J. L. Stehlík lgt. (MMBC). Kněždub, Kněždubský háj forest (197), 28.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Kněždub, Kněždubský háj forest (197) and Radějovka brook valley (198), 17.vi.2000, 1 ♀, 8.vii.2000, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 27.vi.2002, 1 ♀, I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 22.vi.2001, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 19.vi.2000, 1 ♂, P. Kment & I. Malenovský lgt., 16.viii.2000, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Hrubá Vrbka, village (212), 27.–29.vi.2008, 1 ♂, 9.–12.vii.2009, 1 ♀, Z. Malinka lgt. (ZMOC). Radějov, Měsíční údolí valley (214), 8.ix.1998, 1 ♀, I. Malenovský & M. Omesová lgt. (PKPC). Velká nad Veličkou, village, Velička river above the weir (224), 9.ix.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 13.vii.1998, 1 ♂ 2 ♀♀, P. Kment lgt., J. Bryja det., 19.vi.2000, 1 ♂ 1 ♀, P. Kment lgt., 24.vii.2000, 1 ♀, I. Malenovský lgt., 18.viii.2000, 1 ♂ 1 ♀, P. Kment lgt., 9.–10.ix.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC); 6.–24.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 16.viii.2004, 1 ♂, I. Malenovský lgt. (PKPC). Suchovské Mlýny, meadow (227), 23.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Trnovský Mlýn, meadow (229), 1.ix.2005, 3 ♂♂, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 15.vii.1998, 1 ♀, I. Malenovský & M. Omesová lgt., J. Bryja det., 19.vi.2000, 2 ♂♂ 5 ♀♀, I. Malenovský lgt., 18.viii.2000, 8 ♀♀, P. Kment lgt., 10.ix.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC); 2.–25.vi.2009, Mt, 1 ♂ 1 ♀, 25.vi.–15.vii.2009, Mt, 5 ♂♂, 15.vii.–5.viii.2009, Mt, 4 ♂♂, 24.viii.–14.ix.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Nad Vápenkou NM (236), 7.ix.2002, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 15.vii.–5.viii.2009, Mt, 1 ♂,

True bugs (Hemiptera: Heteroptera)

24.viii.–14.ix.2009, Mt, 1 ♂, 14.ix.–22.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♂ 1 ♀, 7.ix.2002, 3 ♂♂ 7 ♀♀, 2.ix.2004, 2 ♂♂ 2 ♀♀, 1.ix.2005, 2 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 29.vi.2001, 2 ♂♂ 1 ♀, 23.ix.2001, 3 ♀♀, P. Kment lgt., 24.v.2002, 1 ♂, P. Kment & I. Malenovský lgt., 7.ix.2002, 1 ♂, 23.vi.2004, 1 ♂ 4 ♀♀, I. Malenovský lgt. (PKPC). Vápenky, Velička brook valley below Hubertova bouda hut (253), 21.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 10.viii.–7.ix.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 9.vii.1998, 1 ♀, P. Kment lgt., J. Bryja det. (PKPC); 28.v.–18.vi.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 2.vii.2001, 1 ♂, I. Malenovský lgt., 9.viii.2001, 2 ♂♂, P. Kment lgt. (PKPC). Strání, Záhumenice NM (266), 2.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt., 9.viii.2001, 2 ♀♀, P. Kment lgt., 21.ix.2001, 1 ♀, 12.ix.2002, 1 ♀, I. Malenovský lgt. (PKPC); 12.viii.–9.ix.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 3.–23.vi.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Eurosiberian and Central Asiatic. **Biology and habitat:** On Fabaceae (*Lathyrus*, *Vicia*, *Astragalus*, *Trifolium*, *Medicago*, *Lotus*, *Anthyllis*, *Ononis*). In open, warm habitats, including ruderal sites. Very common (WACHMANN *et al.* 2004). **Red List status:** –.

Adelphocoris vandalicus (Rossi, 1790)

Material examined. Poteč, Ploščiny NR (42), 17.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 25.viii.2002, 1 ♀, P. Kment lgt., J. Bryja det., 1.ix.2004, 1 ♀, 28.vii.2005, 1 ♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 24.v.2009, 6 ♂♂ 3 ♀♀, 11.vii.2009, 1 ♂ 7 ♀♀, P. Baňaf lgt. et det. (MMBC). Horní Němčí, Lesná hill (123), 23.vii.1951, 1 ♀, J. L. Stehlík lgt. (MMBC). Kněždub, Kněždubský háj forest (197), 8.vii.2000, 1 ♂, P. Kment lgt., 28.vii.2001, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 24.vii.2000, 1 ♂, I. Malenovský lgt. (PKPC); 30.vi.–1.vii.2008, at night, 1 ♂ (freshly hatched), Z. Malinka lgt. (ZMOC). Javorník, Petruchovy Mlýny, cattle pasture (242), 17.vii.2002, 1 ♀, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, confined to xerothermic localities throughout the area. **General distribution:** North Mediterranean, extending to central Europe and Maghreb, and Central Asiatic. **Biology and habitat:** A polyphagous phytophage, probably even zoophytophagous. In xerothermic habitats. Quite rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. For Moravia listed for the first time by SPITZNER (1892), without exact locality. Later recorded from Mohelno (6863), Chvojnice river valley near Kuroslepy (6863) (STEHLÍK 1948), and 16 additional localities within the Pannonicum (BRYJA *et al.* 2002, MALENOVSKÝ *et al.* 2011). In addition, there are two more records from north-eastern Moravia: Ostrava (Slezská Ostrava, Štěpánův sad park at Zárubek mine, 6175) (DOBŠÍK & KEMPŇNÝ 1968) and Huslenky (Pasínek Losový, 6674) (ROHÁČOVÁ 2012).

Agnocoris reclairei (Wagner, 1949)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Boršice u Blatnice, Boršický potok brook valley (105), 16.viii.1984, 1 ♂ 1 ♀, P. Lauterer lgt. (MMBC). Horní Němčí, between village and Drahy NR (114), on *Salix fragilis*, 13.viii.2001, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Kněždubský háj forest (197), 28.vii.2001, 2 ♀♀, P. Kment lgt., J. Bryja det. (JBSC, PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 17.vi.2000, 1 ♂, P. Kment lgt. (PKPC). Malá

Vrbka, between village and Výzkum hill (205), 18.vi.2000, 2 ♂♂ 3 ♀♀, 28.vii.2001, on *Salix fragilis*, 2 ♂♂ 1 ♀, 13.viii.2001, on *Salix fragilis*, 1 ♂, P. Kment lgt., J. Bryja det. (JBSC, PKPC). Velká nad Veličkou, below Zahrady pod Hájem NNR (221), 19.vi.2000, 1 ♂ 1 ♀, P. Kment lgt., J. Bryja det. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only in the southern part of the area. **General distribution:** North Mediterranean, extending to western and central Europe and Iran. **Biology and habitat:** Probably zoophytophagous. Found on *Salix*, especially *S. alba*. Not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded only from Štramberk (Kotouč hill, 6474) (ROUBAL 1956, as *Lygus reclairi*), Polanka nad Odrou (6275) (BRYJA & KMENT 2001), Budkovice (6964) (BRYJA *et al.* 2002), and Blučina (Výhon hill, 6965) (MALENOVSKÝ *et al.* 2011).

Agnocoris rubicundus (Fallén, 1807)

Material examined. Kněždub, Čertoryje NNR, Radějovka brook (204), 15.vi.–14.vii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected in a single locality in the southern part of the area with Malaise trap. **General distribution:** Holarctic (Holopalaearctic and Nearctic). **Biology and habitat:** Probably zoophytophagous. Found on *Salix* (*S. alba*, *S. caprea*) and also on *Populus alba*, rarely on other shrubs and trees (*Buxus*, Cupressaceae). Widespread, not rare (STEHLÍK 1998a, WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded from Brunn [= Brno] (6765–66, 6865–66) (SPITZNER 1892), Brno – Černá Pole (6765), Milonice (6868) (STEHLÍK 1998a), and Polanka nad Odrou (6275) (BRYJA & KMENT 2001).

Alloeotomus germanicus Wagner, 1939

Material examined. Hostětín (70), 10.viii.1970, 1 ♀, L. Pospíšilová lgt. (MMBC). Horní Němčí, Drahý NR (117), on *Pinus sylvestris*, 21.ix.2001, 2 ♀♀, P. Kment lgt., J. Bryja det. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 3 ♂♂, P. Kment lgt., J. Bryja det. (PKPC); 15.vii.–6.viii.2009, Mt, 1 ♂ 1 ♀, 24.viii.–14.ix.2009, Mt, 2 ♂♂, 14.ix.–20.x.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Javorník, loampit (235), 10.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt., J. Bryja det. (JBSC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected mostly in the southern part of the area. **General distribution:** European, extending to Anatolia. **Biology and habitat:** Zoophagous. On *Pinus*, especially *P. sylvestris*. Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. The Moravian records of *A. germanicus* were reviewed by STEHLÍK (1973), with additions by BRYJA & KMENT (2001, 2006a) and MALENOVSKÝ *et al.* (2011).

Alloeotomus gothicus (Fallén, 1807)

Material examined. Nedašov, Jalovcová stráň NR (54), 12.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Lopeník, Mikulčin vrch hill (160), 17.vii.1964, 1 ♂, L. Pospíšilová lgt. (MMBC). Radějov, Holý vrch

hill (189), 4.vii.1977, 1 ♀, L. Pospíšilová lgt. (MMBC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 1 ♀, P. Kment lgt., J. Bryja det. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** European, extending to Anatolia. **Biology and habitat:** Zoophagous. On *Pinus*, especially *P. sylvestris*. Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded only from the Oslava river valley near Březník (6863) (STEHLÍK 1945b, as *Deraeocoris kratochvili*). The record from the Polish side of the Gl. Schneeberg [= Mt. Králický Sněžník] (5766–67) by POLENTZ (1944) needs a revision.

Amblytulus nasutus (Kirschbaum, 1856)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 3.–23.vi.2008, Mt, 2 ♂♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, U Rybníků (38), 2.vii.1999, 2 ♀♀, M. Horskák & P. Kment lgt. (PKPC). Poteč, Ploščíny NR (42), 4.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 3.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55) and surrounding pastures (53), 3.vii.1999, 4 ♂♂ 4 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Petrůvka, Kladenska brook valley (64), 3.–23.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Bylničky, Tarandové hill (80), 24.vi.1982, 2 ♂♂ 2 ♀♀, P. Lauterer lgt. (MMBC). Bylnice, railway station environs (83), 21.v.1999, I. Malenovský & T. Vymyslický lgt., 1.vii.1999, 5 ♂♂ 1 ♀, P. Kment & M. Omesová lgt., 11.ix.1999, 1 ♂ 1 ♀, I. Malenovský & T. Vymyslický lgt., J. Bryja det. (PKPC). Horní Němčí, Drahy NR (117), 13.viii.2001, 1 ♀, P. Kment lgt. (PKPC). Horní Němčí, Vinohrádky (121), 30.vi.2001, 2 ♂♂ 1 ♀, I. Malenovský lgt., J. Bryja revid. (PKPC). Strání, Obecnice hill, at transmission tower (144), 2.vii.2001, 6 ♂♂ 6 ♀♀, P. Kment & I. Malenovský lgt., J. Bryja revid. (PKPC). Strání, Důbrava (150), 7.vii.1980, 1 ♂, P. Lauterer lgt. (MMBC). Žitková, Hutě NR (164), 29.v.–19.vi.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Výškovecké Bošačky, cattle pasture (179), 27.vi.2004, 2 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Výškovecké Bošačky, meadow and orchard (180), 27.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Radějov, Žerotín NM (188), 14.v.–4.vi.2008, Mt, 1 ♂ 1 ♀, 4.–26.vi.2008, Mt, 3 ♂♂ 2 ♀♀, 14.vii.–5.viii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Čertoryje NNR (202), 19.vi.1980, 1 ♂, P. Lauterer lgt. (MMBC). Malá Vrbka, Výzkum hill, restored grassland (208), 25.v.2000, 88 ♂♂ 69 ♀♀, P. Kment & I. Malenovský lgt., 18.vi.2000, 3 ♂♂ 6 ♀♀, I. Malenovský lgt., 22.vi.2001, 17 ♂♂ 16 ♀♀, P. Kment & I. Malenovský lgt., 28.vii.2001, 2 ♂♂ 1 ♀, 27.vi.2002, 1 ♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 1 ♂, P. Kment lgt. (PKPC). Radějov, Měsíční údolí valley (214), 2.vi.1979, 1 ♀, P. Lauterer lgt. (MMBC). Radějov, Kůtky NR (217), 4.–26.vi.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Mandát brook valley below Kůtky NR (218), 4.–26.vi.2008, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 2.–25.vi.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Trnovský Mlýn, sheep pasture (228), 23.vi.2004, 2 ♂♂, I. Malenovský lgt. (PKPC). Javorník, Jazevečí NNR (232), 2.–25.vi.2009, Mt, 2 ♂♂ 5 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevečí NNR, left-side tributary of Velička river (241), 2.–25.vi.2009, Mt, 1 ♂ 3 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 24.v.2002, 1 ♂ 1 ♀, 23.vi.2004, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 23.vi.2004, 2 ♀♀, I. Malenovský lgt. (PKPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 3.–22.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 28.v.–18.vi.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 8.–28.v.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 2.vii.2001, 1 ♂ 1 ♀, I. Malenovský lgt., J. Bryja revid. (PKPC). Strání, Javorina NNR, meadow (270), 4.vii.2001, 4 ♂♂ 4 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 3.–23.vi.2009, Mt, 1 ♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** European, extending to Maghreb and Anatolia; introduced to

North America. **Biology and habitat:** On Poaceae (*Poa pratensis*, *Agrostis*). In dry as well as slightly humid, open habitats. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Apolygus limbatus (Fallén, 1807)

Material examined. Vápenky, Velička brook valley below Hubertova bouda hut (253), 21.viii.2002, 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected at one submontane site only. **General distribution:** Eurosiberian. **Biology and habitat:** On broad-leaved *Salix* species (*S. cinerea*, *S. caprea*, *S. aurita*), rarely on narrow-leaved species (*Salix purpurea*) or *Populus*. Preferring medium and higher altitudes. Quite rare (WACHMANN *et al.* 2004). **Red List status:** –.

Apolygus lucorum (Meyer-Dür, 1843)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Bílé potoky NR (46, 47, 48), 9.ix.1999, 1 ♀, I. Malenovský lgt. (PKPC). Hostětín (70), 10.viii.1970, 1 ♀, L. Pospíšilová lgt. (MMBC). Bylnice (78), 6.ix.1978, 1 ♂ (freshly hatched), B. Dobšík lgt. (MMBC). Bylnice, railway station environs (83), 1.vii.1999, 1 ♂, P. Kment & M. Omesová lgt.; 11.ix.1999, 4 ♂♂ 2 ♀♀, I. Malenovský & T. Výmyslický lgt. (PKPC). Sidonie (88), 8.ix.1981, 1 ♀, L. Pospíšilová lgt. (MMBC). Boršice u Blatnice, Boršický potok brook valley (105), 16.viii.1984, 3 ♀♀, J. L. Stehlík lgt. (MMBC). Horní Němčí, between village and Drahy NR (114), 13.viii.2001, 1 ♀, P. Kment lgt. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Lesná hill (123), 24.vii.1980, 1 ♀, J. L. Stehlík lgt. (MMBC). Bánov, Skalky hill (125), 21.viii.1984, 1 ♂ 5 ♀♀, P. Lauterer & J. L. Stehlík lgt. (MMBC). Komňa, Nový Dvůr (129), 21.viii.1984, 2 ♀♀ 1 L, J. L. Stehlík lgt. (MMBC). Lopeník (152), 8.vi.1999, 1 ♂, K. Hradil lgt. et det. (KHMC). Výškovecké Bošačky, cattle pasture (179), 24.vii.2005, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Kněždubský háj forest (197) and Radějovka brook valley (198), 17.vi.2000, 2 ♂♂ 4 ♀♀, P. Kment lgt., J. Bryja det. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 8.vii.2000, 1 ♀, P. Kment lgt. (PKPC). Tvarožná Lhota, valley of Járkovec brook (201), 17.viii.2000, sweeping of *Urtica* sp., 1 ♀, P. Kment lgt., 28.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 18.vi.2000, 1 ♂, I. Malenovský lgt., 16.viii.2000, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 8.vii.2000, 1 ♀, P. Kment lgt. (PKPC). Javorník, loampit (235), 24.v.2002, 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 25.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 24.viii.–16.ix.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 10.viii.–7.ix.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 2.–22.viii.2007, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Eurosiberian, introduced to North America. **Biology and habitat:** A polyphagous phytophage (e.g. on *Artemisia*, *Eupatorium*, *Chrysanthemum*, *Tanacetum*, *Cirsium*, *Epilobium*, and *Urtica*). In dry to humid, open habitats. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Apolygus rhamnicola (Reuter, 1885)

Material examined. Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Popov (71), 6.viii.1980, 1 ♂, J. L. Stehlík lgt. (MMBC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 25.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected at three sites only. **General distribution:** European. **Biology and habitat:** On fruiting *Frangula alnus* in humid, open forests, along forest edges and on banks of streams, preferring medium and higher altitudes. Rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. For Moravia recorded only from Rejchartice (5967) by STEHLÍK (1961) and Staříč (Kamenná NM, 6375) (ROHÁČOVÁ 2007a,b).

Apolygus spinolae (Meyer-Dür, 1841)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 3.–23.vi.2008, Mt, 1 ♂, 4.–25.viii.2008, Mt, 2 ♂♂, 25.viii.–23.ix.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovská street (30), 9.ix.1999, 2 ♂♂, I. Malenovský lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 10.ix.1999, 1 ♂, I. Malenovský lgt. (PKPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 1 ♀, L. Pospíšilová lgt. (MMBC). Suchov, Kazivec brook valley (116), 9.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt., J. Bryja det. (PKPC). Horní Němčí, Drahy NR (117), 10.ix.1998, 1 ♀, I. Malenovský & M. Omesová lgt., J. Bryja det., 30.vi.2001, 1 ♂ 1 ♀, I. Malenovský & P. Kment lgt. (PKPC). Bánov, Skalky hill (125), 21.viii.1984, 1 ♀, J. L. Stehlík lgt. (MMBC). Strání, Obecnice hill, at transmission tower (144), 2.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 31.vii.–21.viii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 8.viii.2007, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 17.viii.2000, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 12.viii.–9.ix.2010, Mt, 1 ♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 24.vii.2000, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 1 ♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 2.–25.vi.2009, Mt, 1 ♂, 5.–24.viii.2009, Mt, 1 ♀, 24.viii.–14.ix.2009, Mt, 1 ♀, 14.ix.–22.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 24.viii.–16.ix.2009, Mt, 1 ♂ 3 ♀♀, 16.ix.–21.x.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Vápenky, Velička brook valley below Hubertova bouda hut (253), 21.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 15.vi.–13.vii.2010, Mt, 5 ♂♂ 1 ♀, 13.vii.–10.viii.2010, Mt, 1 ♂ 1 ♀, 10.viii.–7.ix.2010, Mt, 4 ♂♂ 3 ♀♀, 7.ix.–21.x.2010, Mt, 4 ♂♂ 4 ♀♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 10.ix.–3.x.2007, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 9.vii.–12.viii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common in the southern part, rare in the northern and central parts of the area. **General distribution:** Eurosiberian and Central Asiatic. **Biology and habitat:** Mostly on *Urtica dioica* in half-shaded to open, relatively moist habitats, such as forest edges and clearings. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Atomoscelis onusta (Fieber, 1861)

Material examined. Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 28.v.–18.vi.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Additional material examined. MORAVIA: Bílovice nad Svitavou, Hádecká planinka NNR (6766), 9.ix.1997, 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det. (JBSC). Havraníky (7161–62), steppe, 29.vii.1970, 4 ♂♂ 5 ♀♀, J. L. Stehlík lgt. (MMBC). Mikulov, Turoid NR (7165), 21.ix.1962, 1 ♂, 10.x.1962, 1 ♀, P. Lauterer lgt. (MMBC). Mikulov, Svatý kopeček NR (7165), 22.vi.1954, 3 ♂♂ 12 ♀♀, J. L. Stehlík lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only once in the southern part of the area with a Malaise trap. **General distribution:** Holopalaeartic, extending to West Sahara, introduced to North America. **Biology and habitat:** On Amaranthaceae (e.g. *Atriplex* spp., *Chenopodium* spp., *Salsola kali*) and Asteraceae (*Artemisia* spp.) in saline and ruderal habitats. Rare, although sometimes common in suitable sites (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. For Moravia recorded from Brno (Stránská skála hill, 6866 – STEHLÍK 1946b; ruderal areas in the city, 6765–66, 6865–66 – RAUS 1990), and Budkovice (6964) (BRYJA *et al.* 2002).

Atractotomus kolenatii (Flor, 1860)

Material examined. Nedašov, Kaňoury NM (55) and surrounding pastures (53), 3.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det. (JBSC). Javorník, towards Suchovské Mlýny, Velička river valley (233), 29.vi.2001, on conifers, 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only in two localities, one in the northern and one in the southern part of the area. **General distribution:** Eurosiberian; North America (perhaps introduced). **Biology and habitat:** On conifers, predominantly on *Picea abies*, also on *Pinus sylvestris*, *Abies alba*, and *Larix decidua*. In medium and higher altitudes. Rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia so far recorded only from the Hrubý Jeseník Mts. (Opavice, 5870) (STEHLÍK 1952) and the Rychlebské hory Mts. (Homole [= Mt. Strážišť], 5667; Plesnivec [Mt.], 5667) (ŠTYS 1959).

Atractotomus magnicornis (Fallén, 1807)

Material examined. Petrůvka, U Petrůvky NM (14), 23.vi.–16.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 2 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt., J. Bryja revid. (JBSC, PKPC). Poteč, Ploščiny NR (42), 4.vii.1999, 2 ♀♀, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 2 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55) and surrounding pastures (53), 3.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). J. Bryja det. (PKPC). Korytná, Březi (113), 5.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Lesná hill (123), 24.vii.1980, 2 ♂♂ 1 ♀, J. L. Stehlík lgt. (MMBC). Strání, village (147), on *Picea abies*, 2.vii.2001, 7 ♂♂ 5 ♀♀, 9.viii.2001, 1 ♀, P. Kment lgt. (PKPC). Vápenice, V Krátkých (170), 6.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Radějov, Žerotín NM (188), 14.v.–4.vi.2008, Mt, 1 ♂, 4.–26.vi.2008, Mt, 1 ♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Holý vrch hill (189), 4.vii.1977, 8 ♂♂ 18 ♀♀, J. L. Stehlík & L. Pospíšilová lgt. (MMBC). Kněždub, Radějovka brook valley below Čertoryje (198), 22.vi.2001, on *Picea abies* and *Pinus sylvestris*, 2 ♂♂, P. Kment lgt., 28.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Radějov, Kútky NR (217), 4.–26.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek

True bugs (Hemiptera: Heteroptera)

& J. Macek lgt. (NMPC). Velká nad Veličkou, village (222), at railway station, on *Picea abies*, 29.vi.2001, 3 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Javorník, towards Suchovské Mlýny, Velička river valley (233), 29.vi.2001, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Strání, Záhumenice NM (266), 9.vii.–12.viii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 23.vi.–15.vii.2009, Mt, 1 ♂, 15.vii.–6.viii.2009, Mt, 3 ♂♂ 1 ♀, 6.–24.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** West Eurosiberian, introduced to North America. **Biology and habitat:** Zoophytophagous. On conifers, predominantly on *Picea abies*, but also on *Pinus*, *Abies*, *Larix*, *Juniperus*, or even imported *Thuja*. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Atractotomus mali (Meyer-Dür, 1843)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 3.–23.vi.2008, Mt, 8 ♂♂ 3 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 1 ♂ 4 ♀♀, M. Horsák & P. Kment lgt. (PKPC, VURV). Valašské Klobouky, Javorůvky NR (32), 2.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Valašské Klobouky, U Rybníků (38), 2.vii.1999, 1 ♂, M. Horsák & P. Kment lgt., J. Bryja det. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 2 ♂♂ 4 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♂ 4 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Bylničky, Tarandové hill (80), 24.vi.1982, 4 ♂♂ 2 ♀♀, P. Lauterer lgt. (MMBC). Nedašov, Na Kopicách, brook (89), 3.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Žitková, Hutě NR (164), 29.v.–19.vi.2007, Mt, 3 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♀, P. Kment lgt. (PKPC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♂ 5 ♀♀, J. L. Stehlík lgt. (MMBC). Radějov, Mandát brook valley below Kútky NR (218), 4.–26.vi.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 2 ♂♂ 4 ♀♀, P. Kment lgt. (PKPC); 25.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 23.vi.2004, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 1 ♂ 4 ♀♀, I. Malenovský lgt. (PKPC); 2.–25.vi.2009, Mt, 1 ♂, 25.vi.–15.vii.2009, Mt, 1 ♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 25.vi.–15.vii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nová Lhota, Fojtické Mlýny (245), 7.vii.1980, 1 spec., P. Lauterer lgt. (MMBC). Javorník, Machová NR (259), 28.v.–18.vi.2007, Mt, 7 ♂♂ 3 ♀♀, 18.vi.–9.vii.2007, Mt, 1 ♀, 9.vii.–2.viii.2007, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt., 15.vi.–13.vii.2010, Mt, 3 ♂♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 2.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** West Eurosiberian, extending to the Near East; introduced to North America. **Biology and habitat:** Zoophytophagous. On shrubs and trees of Rosaceae, especially *Malus* and *Crataegus*, but also *Pyrus*, *Prunus*, *Sorbus*, and rarely on *Rubus* and *Rosa*. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Blepharidopterus angulatus (Fallén, 1807)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, NW slope of Královec hill (35) and U Rybníků (38), 10.ix.1999, 1 ♀, I. Malenovský lgt. (PKPC). Poteč, Ploščíny NR (42), 13.ix.1999, 4 ♀♀, I. Malenovský & T. Vymyslický lgt.,

J. Bryja det. (MHBC, PKPC); 17.viii.2006, 1 ♂ 3 ♀♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 14.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 1 ♂ 1 ♀, J. L. Stehlík lgt. (MMBC). Popov (71), 6.viii.1980, 1 ♂ 1 L, J. L. Stehlík lgt. (MMBC). Bylnice, railway station environs (83), 11.ix.1999, 5 ♀♀, I. Malenovský & T. Výmyslický lgt. (PKPC). Sidonie, Vlárka brook valley (92), 8.ix.1981, 1 ♀, L. Pospíšilová lgt. (MMBC). Svatý Štěpán, Chladný vrch NM (93), 11.viii.–8.ix.2010, Mt, 2 ♂♂, P. Chvojka & J. Macek lgt. (NMPC). Korytná, Břeží (113), 5.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 4 ♀♀, P. Kment & I. Malenovský lgt., 13.viii.2001, on *Alnus incana*, 1 ♂, 21.ix.2001, 4 ♀♀, P. Kment lgt. (PKPC). Komňa, Nový Dvůr (129), 21.viii.1984, 1 ♂, P. Lauterer lgt. (MMBC). Lopeník, U Zvonice NM (155), on *Salix caprea*, 18.viii.2004, 1 ♂, P. Kment lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 8.viii.2007, 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 1 ♀, P. Kment lgt. (PKPC). Vápenice, V Krátkých (170), 6.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 17.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 15.vi.–14.vii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, village (206), on *Tilia* sp., 17.viii.2000, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 2 ♂♂, P. Kment lgt., 28.vii.2000, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Radějov, Měsíční údolí valley (214), 20.viii.2002, 2 ♀♀, P. Kment lgt. (PKPC). Radějov, Mandát brook valley below Kútky NR (218), 24.ix.–28.x.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, village (222), on *Betula* sp., 19.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 10.ix.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Nad Vápenkou NM (236), 7.ix.2002, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, village (239), on *Fraxinus excelsa*, 8.viii.2001, 1 ♂ 3 ♀♀, P. Kment lgt. (PKPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 24.viii.–16.ix.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Vápenky, Velička brook valley below Hubertova bouda hut (253), 21.viii.2002, 1 spec., P. Kment observ. Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 15.vi.–13.vii.2010, Mt, 2 ♂♂ 1 ♀, 13.vii.–10.viii.2010, Mt, 4 ♂♂ 1 ♀, 10.viii.–7.ix.2010, Mt, 1 ♂ 1 ♀, 7.ix.–21.x.2010, Mt, 2 ♂♂, P. Chvojka & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 2.vii.2001, 2 ♂♂ 4 ♀♀, P. Kment & I. Malenovský lgt., 9.viii.2001, on *Alnus glutinosa*, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Eurosiberian, extending to Maghreb, Central Asiatic, and Nearctic (perhaps introduced). **Biology and habitat:** Mostly zoophagous. On deciduous trees, most often on *Alnus* and *Betula*, but also on *Corylus*, *Fraxinus*, *Ulmus*, *Tilia*, *Salix*, *Populus*, *Carpinus*, and *Fagus*, preferring relatively humid, half-shaded habitats, but occurring also on solitary trees. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Blepharidopterus diaphanus (Kirschbaum, 1856)

Material examined. Velká nad Veličkou, village (222), 19.vi.2000, 1 ♂, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only in a single site in the southern part of the area. **General distribution:** Holarctic (Eurosiberian, Central Asiatic and Nearctic). **Biology and habitat:** Zoophytophagous. On various *Salix*, preferring narrow-leaved species (*S. alba*, *S. fragilis*), rarely also on *S. caprea*. In humid (e.g. floodplain forests), as well as quite dry habitats. Rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. For Moravia recorded only by STEHLÍK (1961, as *Orthotylus diaphanus*) from Žádlovice u Loštic (6267), Hranice (6472), Brno (Kníničská přehrada dam, 6765), and Dolní Věstonice (7165).

Brachyarthrum limitatum Fieber, 1858

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Additional material examined. MORAVIA: Kuklík (6362), 15.vii.1982, 1 ♀, B. Dobšík lgt. (MMBC). Bělá u Jevíčka, Malonín (6365), 390–430 m a.s.l., 29.vi.1982, 3 ♂♂ 2 ♀♀, P. Lauterer lgt. (MMBC). Horní Štěpánov, above valley of Usobranský potok brook (6466), wet meadows, 530 m a.s.l., 12.vii.1978, 2 ♀♀, L. Pospíšilová lgt. (MMBC). Domamil, pond 0.75 km NW of the village (6960), 500–510 m a.s.l., 29.vi.1981, 2 ♀♀, J. L. Stehlík lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only in one site in the southern part of the area. **General distribution:** Eurosiberian. **Biology and habitat:** Probably zoophytophagous. On *Populus tremula*. Very rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. There have been only two records published from Moravia so far: Vranov nad Dyjí (70–7160) (STEHLÍK 1978) and Čertoryje NNR in the Bílé Karpaty Mts. (KMENT 2001). We provide here additional data from Moravia.

Brachycoleus decolor Reuter, 1887

(VU)

Material examined. Lipov, Pešunk (100), 10.vii.2009, 1 ♂, Z. Malinka lgt. (ZMOC). Bánov, Skalky hill (125), 21.viii.1984, 1 ♀, J. L. Stehlík lgt. (MMBC). Vyškovec, Pod Hřibovňou NM (176), 28.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, mostly in xerothermic localities in the south of the area; the record from Pod Hřibovňou NM is quite exceptional for its high altitude (550–640 m a.s.l.). **General distribution:** South Eurosiberian. **Biology and habitat:** On Apiaceae, especially taller species (e.g. *Peucedanum oreoselinum*, *Pastinaca sativa*), but also on *Eryngium campestre*. In xerothermic habitats, especially dry grassland (WACHMANN *et al.* 2004). **Red List status:** Vulnerable.

Comments. Quite widespread in the Moravian thermophyticum, but only few records have been published so far – see a review in MALENOVSKÝ *et al.* (2011).

Bryocoris (Bryocoris) pteridis (Fallén, 1807)

Material examined. Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 2 ♀♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, U Rybníků (38), 2.vii.1999, 1 ♂ (ma) 2 ♀♀ (br), M. Horsák & P. Kment lgt. (PKPC). Návojná, Vrchy hill (45), 12.vii.2006, 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 23.viii.2002, 2 ♂♂ 3 ♀♀ (br), P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 30.vi.1999, 1 ♀ (ma), M. Horsák & P. Kment lgt., 14.viii.2006, 1 ♀ (br), P. Kment lgt. (PKPC). Horní Němčí, Uvezené NM (120), 10.vii.2009, 5 ♀♀ (br), Z. Malinka lgt. (NMPC, ZMOC). Komňa, Nový Dvůr (130), 6.vii.2001, 1 ♂ (ma) 1 ♀ (br), P. Kment lgt. (PKPC). Lopeník, Mikulčín vrch hill (160), spruce forest margin, 24.vii.2005, 4 ♀♀ (br), I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 2.–25.vi.2009, Mt, 1 ♂ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 3.–22.vi.2009, Mt, 1 ♂ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 12.viii.–9.ix.2010, Mt, 2 ♂♂ (ma), P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 4.vii.2001, 2 ♂♂ (ma) 2 ♀♀ (br), P. Kment & I. Malenovský lgt. (PKPC); 23.vi.–15.vii.2009, Mt, 57 ♂♂ 11 ♀♀ (ma), 24.viii.–17.ix.2009, Mt, 3 ♂♂ (ma), 17.ix.–21.x.2009, Mt, 1 ♂ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread in forests throughout the area. **General distribution:** Eurosiberian. **Biology and habitat:** On Polypodiaceae, most often on *Dryopteris*, *Pteridium* and *Anthyrium*, in shaded, humid forest undergrowth, especially in deciduous forests. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Calocoris affinis (Herrich-Schaeffer, 1835)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 6.viii.1999, 2 ♀♀, P. Kment lgt. (PKPC); 4.–25.viii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 8 ♂♂ 2 ♀♀, M. Horsák & P. Kment lgt. (MUBC). Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 2.vii.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, U Rybníků (38), 2.vii.1999, 2 ♀♀ (mi), M. Horsák & P. Kment lgt. (PKPC). Poteč, Ploštiny NR (42), 4.vii.1999, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (MHBC). Návojná, Vrchy hill (45), 12.vii.2006, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 2 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráň NR (54), 12.vii.2006, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55) and surrounding pastures (53), 3.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 1 ♂ 5 ♀♀, L. Pospíšilová & J. L. Stehlík lgt. (MMBC). Petrůvka, Kladenska brook valley (64), 23.vi.–16.vii.2008, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Popov (71), 6.viii.1980, 1 ♂ 2 ♀♀, J. L. Stehlík lgt. (MMBC). Štítná nad Vláří, south-exposed slopes N of the village (74), 10.vii.2006, 1 ♀, O. Konvička lgt. (NMPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 1 ♂ 3 ♀♀, P. Kment & M. Omesová lgt. (PKPC). Bylnice, railway station environs (83), 1.vii.1999, 2 ♀♀, P. Kment & M. Omesová lgt. (PKPC). Horní Němčí, Uvezené NM (120), 10.vii.2009, 1 spec., Z. Malinka lgt. (ZMOC). Horní Němčí, Lesná hill (123), 23.vii.1951, 1 ♂ 1 ♀, J. L. Stehlík lgt. (MMBC). Komňa, Nový Dvůr (129), 21.viii.1984, 1 ♂ 1 ♀, P. Lauterer lgt., 1 ♀, J. L. Stehlík lgt. (MMBC). Lopeník, Mikulčin vrch hill (160), 17.vii.1964, 4 ♂♂, L. Pospíšilová lgt., 1 ♀, J. L. Stehlík lgt. (MMBC). Žitková, Hutě NR (164), 11.–31.vii.2007, Mt, 1 ♀, 31.vii.–21.viii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Radějov, Holý vrch hill (189), 4.vii.1977, 5 ♂♂ 4 ♀♀, L. Pospíšilová lgt., 2 ♀♀, J. L. Stehlík lgt. (MMBC). Kněždub, Kněždubský háj forest (197), 28.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Kněždub, Kněždubský háj forest (197) and Radějovka brook valley (198), 17.vi.2000, 5 ♂♂ 5 ♀♀, 8.vii.2000, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 4 ♂♂, I. Malenovský lgt., 29.vi.2001, 1 ♂ 1 ♀, P. Kment lgt. (PKPC); 25.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 25.vi.–15.vii.2009, Mt, 3 ♂♂, 15.vii.–5.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 15.vii.–4.viii.2009, Mt, 3 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 15.vi.–13.vii.2010, Mt, 1 ♀, 13.vii.–10.viii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 9.vii.1998, 2 ♀♀, P. Kment lgt., J. Bryja det. (PKPC); 18.vi.–9.vii.2007, Mt, 2 ♂♂, 9.vii.–2.viii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt., 15.vi.–13.vii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 2.vii.2001, 3 ♂♂, P. Kment & I. Malenovský lgt., 9.viii.2001, on flowers of Apiaceae, 2 ♀♀, P. Kment lgt. (PKPC); 9.vii.–12.viii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** European, extending to Maghreb. **Biology and habitat:** A polyphagous phytophage, mostly on *Urtica dioica*. It prefers humid, often shaded

habitats, such as forest clearings and the margins and banks of streams. Very common (WACHMANN *et al.* 2004). **Red List status:** –.

Calocoris alpestris (Meyer-Dür, 1843)

Material examined. Strání, Javorina NNR, meadow (270), 4.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 3.–23.vi.2009, Mt, 1 ♂, 23.vi.–15.vii.2009, Mt, 4 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). **Additional material examined. MORAVIA:** Horní Lomná, Mionší NNR (6478), eastern slope, beech virgin forest, 14.vii.2001, 1 ♂, M. Horsák lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only on the Velká Javorina Mt. **General distribution:** European (boreo-montane). **Biology and habitat:** A polyphagous phytophage. In partly shaded habitat with relatively humid microclimate, especially in tall herb communities. A mountain species, quite rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia so far recorded only from the Hrubý Jeseník Mts.: Altvater [= Mt. Praděd] (5969) (ASSMANN 1854, STEHLÍK 1952), “Klein-Mohrathal in der Nähe des Grossen Kessels” [= Moravice valley near Velká Kotlina] (5969) (SPITZNER 1892, STEHLÍK 1952), Králický Sněžník Mts.: Saalwiesen bei Altstadt [= Salvíz near Polská hora Mt.] (5767) (SPITZNER 1892), and the Moravskoslezské Beskydy Mts.: Smrk NR (6476) (ROHÁČOVÁ 2001a).

Calocoris roseomaculatus roseomaculatus (De Geer, 1773)

Material examined. Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 1 ♂, M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 3.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55) and surrounding pastures (53), 3.vii.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Slavičín (69), 10.vii.1989, 1 ♂ 2 ♀♀, I. Vavřínová lgt. (MMBC). Brumov, Holý vrch hill (79), 14.vi.1971, 1 ♀, L. Pospíšilová lgt., 2 ♂♂ 1 ♀, J. L. Stehlík lgt. (MMBC). Bylničky, Tarandové hill (80), 24.vi.1982, 1 ♀, P. Lauterer lgt. (MMBC). Korytná (115), 23.vii.1951, 1 ♂, J. L. Stehlík lgt. (MMBC). Horní Němčí, Drahy NR (117), 30.vi.2001, 3 ♂♂ 9 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR env. (118), 7.vii.1980, 2 ♀♀, L. Pospíšilová & P. Lauterer lgt. (MMBC). Horní Němčí, Lesná hill (123), 24.vii.1980, 3 ♀♀, J. L. Stehlík lgt. (MMBC). Žitková (163), 11.vi.1999, 1 ♂ 1 ♀, K. Hradil lgt. et det. (KHMC). Strání, Záhumenice, cattle pasture (265), 2.vii.2001, 14 ♂♂ 22 ♀♀, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, except its southernmost part. **General distribution:** European. **Biology and habitat:** A polyphagous phytophage, with a preference for Asteraceae. Euryecious, in xerothermic to humid, open to shaded habitats from lowlands to mountains. Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia known from Gesenke [= Hrubý Jeseník Mts.] (SPITZNER 1892), Uherské Hradiště (6970) (HOBERLANDT 1947), Třebíč (6760) (STEHLÍK 1948), Mohelno (6863) (ROUBAL 1968), Staříč (Kamenná NM, 6375) (ROHÁČOVÁ 1985), and Huslenky (Pasínek Losový, 6674) (ROHÁČOVÁ 2012).

***Camptozygum aequale* (Villers, 1789)**

Material examined. Poteč, Ploštiny NR (42), 4.vii.1999, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt., J. Bryja det. (JBSC, PKPC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♂, J. L. Stehlík lgt. (MMBC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), on *Pinus sylvestris*, 19.vi.2000, 4 ♀♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** Eurosiberian, introduced to North America. **Biology and habitat:** On *Pinus*, particularly *P. sylvestris*, rarely on *Picea*. Widespread, common (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded from Brunn [= Brno] (6765–66, 6865–66), Gaya [= Kyjov] (6968) (SPITZNER 1892, as *Hadrodema pinastri*), Pocoucov (6761), Slavice (6861) (STEHLÍK 1944, 1948, as *C. pinastri*), Mohelno (6863) (STEHLÍK 1948, as *C. pinastri*), Jeseník nad Odrou (6373) (BRYJA & KMENT 2001), and Kurdějov (Kamenný vrch hill, 7066). Also recorded from the Polish side of the Gl. Schneeberg Mt. [= Mt. Králický Sněžník] (5766–67) (POLENTZ 1944, as *C. pinastri*).

***Campylomma annulicorne* (Signoret, 1865)**

Material examined. Kněždub, Čertoryje NNR, Radějovka brook (204), 14.vii.–12.viii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC).

Additional material examined. MORAVIA: Havraníky, Pustý kopec hill (7162), steppe and ruderal habitats, 23.vii.1969, 3 ♀♀, L. Pospíšilová & J. L. Stehlík lgt. (MMBC). Klentnice – Perná (7165), 9.viii.1962, 6 ♂♂ 2 ♀♀, P. Lauterer lgt. (MMBC). Pavlov, Pavlovský les forest (7166), 167 m a.s.l., 10.vii.1973, 1 ♂, J. L. Stehlík lgt. (MMBC). Pavlov, left bank of Dyje river (7166), meadows, 167 m a.s.l., 14.viii.1973, 1 ♀, P. Lauterer lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, found only at one site in the southern part of area with a Malaise trap. **General distribution:** Eurosiberian and Central Asiatic. **Biology and habitat:** On narrow-leaved, rarely on broad-leaved *Salix* spp. (*S. alba*, *S. viminalis*, *S. cinerea*, etc.), usually on river banks. Widespread, rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia, the species has been so far reported from Brno – Staré Černovice (6865), Klentnice (7165) (STEHLÍK 1962), the Poodří PLA: Jeseník nad Odrou (6373), Odra (Malý les forest, 6373) (BRYJA & KMENT 2001), and Brno (banks of the Leskava brook, 6865) (KMENT *et al.* 2005).

***Campylomma verbasci* (Meyer-Dür, 1843)**

Material examined. Horní Němčí, Drahy NR (117), on *Echium vulgare* at the road, 13.viii.2001, 1 ♂, P. Kment lgt. (PKPC). Bánov, Skalky hill (125), 21.viii.1984, 1 ♀, J. L. Stehlík lgt. (MMBC). Výškovecké Bošačky, cattle pasture (179), 3.ix.2005, 1 ♂, I. Malenovský lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, between village and Výzkum hill (205), 8.vii.2000, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 25.v.2000, 1 ♂ 1 ♀, P. Kment lgt., J. Bryja det. (JBSC, PKPC); 27.vii.2000, 2 ♀♀, I. Malenovský lgt., 16.viii.2000, 1 ♂, P. Kment lgt. (PKPC). Radějov, Kútky NR (217), 26.vi.–15.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazeví NNR (232), 14.ix.–22.x.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 28.v.–18.vi.2007, Mt, 1 ♀, 9.vii.–2.viii.2007, Mt, 1 ♀, 10.ix.–3.x.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 28.v.–18.vi.2007,

Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 3.–23.vi.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread in the southern part of the area, rare in the central part, missing in the northern part. **General distribution:** Holopalaeartic, introduced to North America. **Biology and habitat:** Zoophytophagous. On various herbs as well as deciduous trees, although perhaps most frequently found on *Verbascum* and various cultivated plants. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded only from Brünn [= Brno] (6765–66, 6865–66), Prossnitz [= Prostějov] (6568), Lultch [= Luleč] (6767) (SPITZNER 1892), Brno (Ráječek [= Černovický hájek NR], 6865), Kobylí (7067), Újezdec (6969), Vrbice (7067), Němčičky (7066), Bořetice (7067) (HOBERLANDT 1947), three localities in the Hrubý Jeseník Mts. (STEHLÍK 1952), Skalička (6472) (DOBŠÍK & URBAN 1981), on ruderal vegetation in Brno (6765–66, 6865–66) (RAUS 1990), Mikulov (Svatý kopeček NR, 7165) (BRYJA & KMENT 2006a), Sviadnov (6275) (ROHÁČOVÁ & DROZD 2009), Újezd u Brna (Špice, 6866), Budkovice (Budkovické skály rocks, 6964), and Úvaly u Valtic (Kameníky, 7266) (MALENOVSKÝ *et al.* 2011).

Campyloneura virgula (Herrich-Schaeffer, 1835)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Nedašov, Kaňoury NM (55), 16.viii.2006, 2 ♀♀, P. Kment lgt. (PKPC). Petrůvka, Kladenska brook valley (64), 23.vi.–16.vii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Lopeník, Mikulčin vrch hill (160), spruce forest margin, 24.vii.2005, 1 ♀, I. Malenovský lgt. (PKPC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♀, L. Pospíšilová lgt. (MMBC). Kněždub, Radějovka brook valley below Čertoryje (198), on *Larix decidua*, 17.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 2 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 13.vii.–10.viii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** European and Holomediterranean, introduced to North America. **Biology and habitat:** Zoophagous, preying on psyllid larvae, aphids, mites, and other minute arthropods. On deciduous trees, especially on *Fraxinus excelsior*, but also on *Tilia*, *Corylus*, *Alnus*, *Crataegus*, *Carpinus*, etc. Parthenogenetic. Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded only from Brno (Žlutý kopec hill, 6865) (STEHLÍK & HOBERLANDT 1954), two localities in the Poodří PLA (BRYJA & KMENT 2001), Hukvaldy (Hradní vrch hill, 6375) (ROHÁČOVÁ 2003b), and Mikulov (Svatý kopeček NR, 7165) (BRYJA & KMENT 2006a). All Moravian specimens recorded so far are females; findings of males from the neighbouring Bohemia were mentioned by HENRY (2012).

Capsodes gothicus gothicus (Linnaeus, 1758)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 1 ♂ 2 ♀♀, M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Poteč, Ploščiny NR (42), 4.vii.1999, 3 ♂♂ 4 ♀♀, P. Kment & I. Malenovský lgt., 1.vi.2002, 1 ♂, I. Malenovský lgt. (PKPC). Valašské Klobouky, Královec – Ploščiny ridge (43), 4.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 2 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 3.vii.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., 30.vi.2004, 1 ♂ 1 ♀, 16.vi.2006, 1 ♂ (freshly hatched), I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55) and surrounding pastures (53), 3.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, meadow E of Jalovcová stráž NR (59), 30.vi.2004, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 3 ♂♂, L. Pospíšilová & J. L. Stehlík lgt. (MMBC). Pítín (72), 20.vii.1957, 1 ♂, Ondřej lgt. (MMBC). Brumov, Kloboucká street (76), 30.vi.2004, 3 ♂♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Brumov, Holý vrch hill (79), 14.vi.1971, 2 ♂♂ 2 ♀♀, L. Pospíšilová & J. L. Stehlík lgt. (MMBC). Bylničky, Tarandové hill (80), 24.vi.1982, 1 ♂, P. Lauterer lgt. (MMBC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 1 ♂ 2 ♀♀, P. Kment & M. Omesová lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 30.vi.2004, 3 ♂♂, I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 24.v.2009, 2 ♂♂ 4 ♀♀, 11.vii.2009, 2 ♂♂ 5 ♀♀, 16.viii.2009, 2 ♀♀, P. Baňář lgt. et det. (MMBC). Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Lesná hill (123), 23.vii.1951, 5 ♂♂ 2 ♀♀, J. L. Stehlík lgt. (MMBC). Strání, Důbrava hill (150), 7.vii.1980, 2 ♂♂ 2 ♀♀, L. Pospíšilová & P. Lauterer lgt. (MMBC). Lopeník (152), 8.vi.1999, 1 ♂, K. Hradil lgt. et det. (KHMC). Lopeník, U Zvonice NM (155), 27.vi.2004, 8 ♂♂ 4 ♀♀ (1 ♂ freshly hatched), 24.vii.2005, 2 ♂♂, I. Malenovský lgt. (PKPC). Výskovec, Pod Hřibovňou NM (176), 28.vi.2004, 4 ♂♂, I. Malenovský lgt. (PKPC). Výskovecké Bošačky, meadow and orchard (180), 27.vi.2004, 2 ♂♂, I. Malenovský lgt. (PKPC). Radějov, Holý vrch hill (189), 4.vii.1977, 2 ♂♂ 2 ♀♀, L. Pospíšilová lgt., 2 ♂♂ 4 ♀♀, J. L. Stehlík lgt. (MMBC). Kněždub, Čertoryje NNR (202), 13.v.2007, 1 ♂, P. Bogusch lgt. (PBPC). Radějov, Mandát brook valley below Kútky NR (218), 4.–26.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 4 ♂♂, P. Kment lgt. (PKPC). Suchovské Mlýny, sheep pasture (226), 23.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC); 2.–25.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 8 ♂♂ 5 ♀♀, P. Lauterer, J. L. Stehlík & J. Meduna lgt. (MMBC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 2 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 29.vi.2001, 1 ♂, P. Kment lgt., 23.vi.2004, 6 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Vápenky, Porážky NNR (247), 15.vii.1998, 1 ♂, I. Malenovský & M. Omesová lgt., J. Bryja det. (PKPC). Javorník, Výzkum hill (258), 10.vi.1982, 2 ♂♂ 2 ♀♀, P. Lauterer & J. L. Stehlík lgt. (MMBC). Javorník, Machová NR (259), 9.vii.1998, 1 ♂, P. Kment lgt., J. Bryja det. (PKPC); 28.v.–18.vi.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Eurosiberian. **Biology and habitat:** A polyphagous phytophage.

In various open grassland habitats (WACHMANN *et al.* 2004). **Red List status:** –.

Capsus ater (Linnaeus, 1758)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 23.vi.–16.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 2 ♂♂, M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt., J. Bryja revid. (PKPC). Valašské Klobouky, Javorůvky NR (32), 2.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Poteč, Ploščiny NR (42), 4.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt., 1.vi.2002, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Brumov, Uhličky (44), 3.vii.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Hrušová dolina valley (53), 3.vii.1999, 6 ♂♂, P. Kment & I. Malenovský lgt. (MHBC, PKPC). Nedašov, Kaňoury NM (55), 17.vi.2006, 2 ♂♂, I. Malenovský lgt. (PKPC). Slavičín (69), 10.vii.1989, 3 ♂♂, I. Vavřínová lgt. (MMBC). Popov, Havránkův potok brook valley (71), 6.viii.1980, 1 ♂, J. L. Stehlík lgt.

True bugs (Hemiptera: Heteroptera)

(MMBC). Brumov, Kloboucká street (76), 30.vi.2004, 2 ♀♀, I. Malenovský lgt. (PKPC). Brumov, Holý vrch hill (79), 14.vi.1971, 10 ♂♂ 3 ♀♀, L. Pospíšilová & J. L. Stehlík lgt. (MMBC). Bylničky, Tarandové hill (80), 24.vi.1982, 5 ♂♂, P. Lauterer lgt. (MMBC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 3 ♂♂, P. Kment & M. Omesová lgt. (MUBC, PKPC). Nedašov, Pod Cigánem NM (91), 30.vi.2004, 1 ♂, I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 24.v.2009, 2 ♂♂ 1 ♀, P. Baňar lgt. et det. (MMBC). Horní Němčí, Hornoněmčanský háj forest (118), 7.vii.1980, 8 ♂♂ 1 ♀, L. Pospíšilová lgt. (MMBC). Horní Němčí, Lesná hill (123), 24.vii.1980, 2 ♂♂, J. L. Stehlík lgt. (MMBC). Strání, Důbrava hill (150), 7.vii.1980, 3 ♂♂ 1 ♀, P. Lauterer & L. Pospíšilová lgt. (MMBC). Lopeník (152), 8.vi.1999, 2 ♂♂ 1 ♀, K. Hradil lgt. et det. (KHMC). Radějov, Žerotín NM (188), 4.–26.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♂, J. L. Stehlík lgt. (MMBC). Kněždub, Čertoryje NNR (202), 19.vi.1980, 3 ♂♂, P. Lauterer lgt. (MMBC). Malá Vrbka, Výzkum hill, restored grassland (208), 25.v.2000, 5 ♂♂, P. Kment & I. Malenovský lgt., 18.vi.2000, 1 ♂, I. Malenovský lgt., 22.vi.2001, 4 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt., 18.v.2002, 1 ♀, I. Malenovský lgt. (PKPC). Radějov, Měsíční údolí valley (214), 2.vi.1979, 4 ♂♂, P. Lauterer lgt. (MMBC). Radějov, Kútky NR (217), 25.vi.2010, 1 ♀, J. Ch. Vávra lgt. (OMOC). Radějov, Kútky NR (217), 4.–26.vi.2008, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Suchové Mlýny, meadow (227), 23.vi.2004, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 1 ♂, I. Malenovský lgt., 29.vi.2001, 1 ♂, P. Kment lgt. (PKPC); 2.–25.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 7 ♂♂ 1 ♀, P. Lauterer & J. L. Stehlík lgt. (MMBC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 2.–25.vi.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 29.vi.2001, 1 ♂, P. Kment lgt., 24.v.2002, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nová Lhota, Fojtické Mlýny (245), 7.vii.1980, 4 ♂♂, P. Lauterer & L. Pospíšilová lgt. (MMBC). Nová Lhota, Hryzlácké Mlýny (246), 3.–22.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 3.–22.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Výzkum hill (258), 10.vi.1982, 4 ♂♂, P. Lauterer & J. L. Stehlík lgt. (MMBC). Javorník, Machová NR (259), 9.vii.1998, 1 ♂, P. Kment lgt., J. Bryja det. (PKPC); 28.v.–18.vi.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt., 15.vi.–13.vii.2010, Mt, 3 ♂♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 28.v.–18.vi.2007, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 2.vii.2001, 2 ♂♂, 23.v.2002, 1 ♂, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** West Eurosiberian, introduced to North America. **Biology and habitat:** On Poaceae in open to half-shaded, dry to slightly humid grassland habitats. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Capsus pilifer (Remane, 1950)

(VU)

Published record. KMENT & BRYJA (2001), KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Radějov, Kútky NR (217), 4.–26.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, known only from two sites in the southern part of the area. **General distribution:** Eurosiberian. **Biology and habitat:** On *Molinia caerulea* agg. (WACHMANN *et al.* 2004), in the Bílé Karpaty Mts. on *M. arundinacea* (KMENT 2001), in humid habitats, such as margins of peat bogs and wet meadows. Very rare (WACHMANN *et al.* 2004). **Red List status:** Vulnerable.

Comments. In the Czech Republic known so far only from the Čertoryje NNR in the Bílé Karpaty PLA and the Kokofínsko PLA in central Bohemia (KMENT & BRYJA 2001, KMENT *et al.* 2003).

***Capsus wagneri* (Remane, 1950)**

Material examined. Poteč, Ploščiny NR (42), 1.vi.2002, 1 ♂, I. Malenovský lgt. (PKPC). Strání, Dúbrava (150), 7.vii.1980, 3 ♂♂, L. Pospíšilová lgt. (MMBC). Kněždub, Čertoryje NNR, Radějovka brook (204), 15.vi.–14.vii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, loampit (235), 24.v.2002, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 24.v.2002, 1 ♂, 23.vi.2004, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 23.vi.2004, 2 ♂♂, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, scattered throughout the area. **General distribution:** Eurosiberian. **Biology and habitat:** On *Calamagrostis canescens* and *C. epigejos*, rarely other Poaceae. In humid, as well as dry grassland habitats (WACHMANN *et al.* 2004). In Moravia not rare, but widely neglected. **Red List status:** –.

Comments. For Moravia recorded by STEHLÍK (1961), BRYJA & KMENT (2006a), and MALENOVSKÝ *et al.* (2011).

***Charagochilus (Charagochilus) gyllenhalii* (Fallén, 1807)**

Published records. HOBERLANDT (1947): Javorník (7171). KMENT (2001): Kněždub, Čertoryje NNR (202). **Material examined.** Petrůvka, U Petrůvky NM (14), 23.vi.–16.vii.2008, Mt, 1 ♂, 16.vii.–4.viii.2008, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 1 ♂, P. Kment & M. Horský lgt. (PKPC). Valašské Klobouky, Na Nivách (34), 9.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt., J. Bryja det. (PKPC). Poteč, Ploščiny NR (42), 13.ix.1999, 1 ♂ 1 ♀, I. Malenovský & T. Vymyslický lgt., J. Bryja det. (PKPC). Brumov, Uhlíčky (44), 5.x.2004, 1 ♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 14.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (48), 19.v.1999, 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Nedašov, Jalovcová stráž NR (54), 3.vii.1999, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt., 25.viii.2002, 2 ♀♀, 8.v.2004, 1 ♀, P. Kment lgt., 1.ix.2004, 1 ♂, 5.x.2004, 3 ♂♂ 5 ♀♀, I. Malenovský lgt., 16.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54) and along road to Nedašov (52), 10.ix.1999, 6 ♂♂ 4 ♀♀, I. Malenovský & T. Vymyslický lgt., J. Bryja det. (PKPC). Nedašov, Kaňoury NM (55), 16.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55) and surrounding pastures (53), 3.vii.1999, 2 ♀♀ (1 ♀ freshly hatched), P. Kment & I. Malenovský lgt. (PKPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 1 ♀, L. Pospíšilová lgt. (MMBC). Popov (71), 6.viii.1980, 3 ♂♂ 6 ♀♀, J. L. Stehlík lgt. (MMBC). Brumov, Kloboucká street (76), 30.vi.2004, 2 ♂♂, 2.ix.2004, 2 ♂♂ 2 ♀♀, 28.v.2005, 1 ♀, I. Malenovský lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♀, 18.viii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 1 ♀, P. Kment & M. Omesová lgt., J. Bryja det., 12.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt., J. Bryja det. (PKPC). Hluk, Kobylí hlava NM (101), 24.viii.2002, 1 ♂, I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 24.v.2009, 8 ♂♂ 3 ♀♀, 11.vii.2009, 5 ♀♀, P. Baňar lgt. et det. (MMBC). Horní Němčí, Hornoněmčanský háj forest (108), 10.ix.2002, 1 ♀, I. Malenovský lgt., J. Bryja det. as *Ch. weberi*, P. Kment revid. (PKPC). Horní Němčí, Drahy NR (117), 13.viii.2001, 1 ♀, P. Kment lgt., 21.vii.2002, 1 ♀, I. Malenovský lgt. (PKPC). Strání, Klanečnice brook valley between village and Žabka reservoir (143), 16.v.1998, 1 ♀, P. Kment lgt., J. Bryja det. (PKPC). Lopeník, U Zvonice NM (155), 3.ix.2005, 1 ♀, 25.ix.2004, 1 ♀, P. Kment lgt. (PKPC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 3 ♂♂, 19.vi.–11.vii.2007, Mt, 3 ♂♂ 1 ♀, 21.viii.–12.ix.2007, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Vyškovecké Bošačky, meadow and orchard (180), 25.ix.2004, 1 ♀, 24.vii.2005, 1 ♂ 2 ♀♀, P. Kment lgt., 3.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Radějov, Žerotín NM (188), 26.vi.–14.vii.2008, Mt, 1 ♂, 5.–26.viii.2008, Mt, 2 ♂♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Kněždubský háj forest (197), 8.vii.2000, 1 ♀, P. Kment lgt., J. Bryja revid. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 18.vi.2000, forest margin, 1 ♂, P. Kment lgt.; 8.vii.2000, 1 ♀, P. Kment lgt., J. Bryja det. as *Ch. weberi*, P. Kment revid.; 16.viii.2000, 1 ♀, P. Kment lgt.; 28.vii.2001, 1 ♀, I. Malenovský lgt., J. Bryja det.; 27.vi.2002, 1 ♀, I. Malenovský lgt. (PKPC). Hrubá Vrbka, football ground (211),

True bugs (Hemiptera: Heteroptera)

16.viii.2000, 1 ♂ 4 ♀♀, P. Kment lgt. et det., 20.ix.2001, 1 ♂, P. Kment lgt., J. Bryja det. (PKPC). Radějov, Měsíční údolí valley (214), 2.vi.1979, 1 ♀, P. Lauterer lgt. (MMBC). Radějov, Kútky NR (217), 15.vii.–5.viii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, village, Velička river above the weir (224), 9.ix.2000, 1 ♂, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 18.iv.2000, 3 ♂♂, P. Kment lgt. (PKPC); 19.vi.2000, 1 ♂ 1 ♀, P. Kment lgt., J. Bryja det. as *Ch. weberi*, P. Kment revid. (JBSC, PKPC); 18.viii.2000, 3 ♂♂ 1 ♀, P. Kment lgt., J. Bryja det.; 9.–10.ix.2000, 2 ♂♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Suchovské Mlýny, meadow (227), 1.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Trnovský Mlýn, meadow (229), 1.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 6.v.2000, 1 ♀, I. Malenovský lgt., 18.viii.2000, 1 ♀, P. Kment lgt., J. Bryja det., 10.ix.2000, 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Javorník, Jazevčí NNR (232), 2.–25.vi.2009, Mt, 3 ♂♂, 25.vi.–15.vii.2009, Mt, 1 ♂ 1 ♀, 15.vii.–5.viii.2009, Mt, 2 ♂♂, 5.–24.viii.2009, Mt, 1 ♂ 1 ♀, 24.viii.–14.ix.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, loampit (235), 24.v.2002, 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 15.vii.–5.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 1.ix.2005, 1 spec., I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 8.viii.2001, 2 ♀♀, P. Kment lgt., J. Bryja det. as *Ch. weberi*, P. Kment revid. (JBSC, PKPC); 7.ix.2002, 2 ♀♀, I. Malenovský lgt. (PKPC). Nová Lhota, Hryzálácké Mlýny (246), 3.–22.vi.2009, Mt, 1 ♂, 22.vi.–15.vii.2009, Mt, 1 ♂, 16.ix.–22.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 7.iv.–12.v.2009, Mt, 1 ♀, 12.v.–3.vi.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Výzkum hill (258), 10.vi.1982, 2 ♀♀, P. Lauterer & J. L. Stehlík lgt. (MMBC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 15.vi.–13.vii.2010, Mt, 1 ♂, 13.vii.–10.viii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 14.v.1998, 1 ♂ 5 ♀♀, P. Kment lgt., J. Bryja det. (MHBC, PKPC); 8.–28.v.2007, Mt, 1 ♂, 28.v.–18.vi.2007, Mt, 1 ♀, 18.vi.–9.vii.2007, Mt, 3 ♂♂ 3 ♀♀, 9.vii.–2.viii.2007, Mt, 7 ♂♂, 2.–22.viii.2007, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt., 7.iv.–5.v.2010, Mt, 1 ♂, 15.vi.–13.vii.2010, Mt, 1 ♂, 13.vii.–10.viii.2010, Mt, 2 ♂♂ 3 ♀♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 18.vi.–9.vii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 21.ix.2001, 2 ♀♀, I. Malenovský lgt., 1 ♀ J. Bryja det. as *Ch. weberi*, P. Kment revid. (PKPC). Strání, Záhumenice NM (266), 12.ix.2002, 1 ♀, I. Malenovský lgt. (PKPC); 9.vii.–12.viii.2010, Mt, 1 ♀, 12.viii.–9.ix.2010, Mt, 2 ♂♂ 2 ♀♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 26.vii.2007, 1 ♂, O. Konvička lgt. (PKPC); 23.vi.–15.vii.2009, Mt, 1 ♀, 24.viii.–17.ix.2009, Mt, 1 ♀, 17.ix.–21.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Eurosiberian, extending to Maghreb, and Central Asiatic. **Biology and habitat:** On *Galium* (*G. verum*, *G. mollugo*, *G. aparine*, *G. boreale*, etc.), rarely on *Odontites vulgaris*. Euryecious, common in open xerothermic, as well as half-shaded humid habitats (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. Measurements of several morphometric characters of *Ch. gyllenhali* are given in Table 1. For a discussion of problems concerning the identification see the Comments under *Ch. weberi*.

Charagochilus (Charagochilus) spiralifer Kerzhner, 1988

= *Charagochilus similis* Zheng, 1990. Synonymised by ZHENG (1995).

Material examined. Petrůvka, U Petrůvky NM (14), 23.vi.–16.vii.2008, Mt, 1 ♂, 16.vii.–4.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Žitková, Hutě NR (164), 19.vi.–11.vii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 14.vii.–12.viii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 25.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241),

25.vi.–15.vii.2009, Mt, 1 ♂, 24.viii.–14.ix.2009, Mt, 1 ♀, 14.ix.–22.x.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Hryzlácké Mlýny (246), 15.vii.–4.viii.2009, Mt, 1 ♂, 4.–24.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 3.–22.vi.2009, Mt, 1 ♀, 15.vii.–5.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 15.vi.–13.vii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 18.vi.–9.vii.2007, Mt, 3 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 18.vi.–9.vii.2007, Mt, 1 ♂, 9.vii.–2.viii.2007, Mt, 1 ♂, 2.–22.viii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 9.vii.–12.viii.2010, Mt, 4 ♂♂, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area but rare and collected only with Malaise traps. **General distribution:** Perhaps Eurosiberian. Known from north-eastern China, Mongolia, the Asian part of Russia (Far East, West Siberia) (KERZHNER & JOSIFOV 1999); Austria, Germany, Slovenia (SIMON 2007), Slovakia, and the Czech Republic: Moravia (STEHLÍK 1978, as *Ch. weberi*, P. Kment revid.). **Biology and habitat:** On *Galium* and *Rubia* in Germany (SIMON 2007). According to SIMON (2007), *Ch. spiralifer* usually occurs syntopically with *Ch. gyllenhalii*, e.g. in shaded forest undergrowth communities with *Melampyrum pratense* in the Rhine lowland in Germany, where it is more common than *Ch. gyllenhalii*. Generally, it seems that *Ch. spiralifer* prefers more humid sites and higher altitudes (SIMON 2007). The records by STEHLÍK (1978) originate mostly from floodplains of large rivers in southern Moravia and southern Slovakia. **Red List status:** Not evaluated.

Comments. *Charagochilus spiralifer* has been discovered in Europe only recently, but as it is documented in collections as early as by 1903 (SIMON 2007), it is certainly not an alien but an overlooked species that had been confused with similar relatives. *Charagochilus spiralifer* can be easily distinguished from *Ch. gyllenhalii* and *Ch. weberi* by the presence of a whitish spot on the apices of femora which is not apically delimited by a reddish or brownish ring, a longer antennomere 4 (SIMON 2007), and the structure of the male aedeagus (KERZHNER 1988, ZHENG 1990). Measurements of several morphometric characters based on the specimens from the Bílé Karpaty PLA are given in Table 1. See also the Comments under *Ch. weberi*.

A revision of the Moravian and Slovak specimens identified as *Ch. weberi* by STEHLÍK (1978) (P. Kment revid.) revealed that all of them belong to *Ch. spiralifer*. *Charagochilus spiralifer* is here reported for the fauna of the Czech Republic and Slovakia for the first time.

Charagochilus (Charagochilus) weberi Wagner, 1953

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Distribution and frequency in the Bílé Karpaty PLA: There is one published record; the identification, however, needs a revision. **General distribution:** North Mediterranean, extending to central Europe and Maghreb. **Biology and habitat:** On *Galium*, *Odontites*, *Melampyrum*, and *Verbascum* but the biology and ecology are poorly known (WAGNER 1953, WACHMANN *et al.* 2004). **Red List status:** –.

Table 1. Measurements of *Charagochilus gyllenhalii* (Fallén, 1807) and *Ch. spiralifer* Kerzhner, 1988 based on specimens collected with Malaise traps in the Bílé Karpaty PLA. Average value (minimum–maximum).

	body length (mm)	ocular index	antennomere II (mm)	antennomere III (mm)	antennomere IV (mm)	antennomere II / III
<i>Ch. gyllenhalii</i> ♂♂ (n = 12)	3.5 (2.9–4.2)	1.72 (1.65–2.0)	1.06 (0.95–1.2)	0.44 (0.38–0.45)	0.5 (0.43–0.55)	2.44 (2.24–2.69)
<i>Ch. gyllenhalii</i> ♀♀ (n = 10)	3.35 (3.0–3.6)	2.0 (2.0–2.13)	0.9 (0.8–0.93)	0.43 (0.38–0.45)	0.53 (0.48–0.53)	2.12 (1.94–2.25)
<i>Ch. spiralifer</i> ♂♂ (n = 10)	3.9 (3.6–4.4)	1.54 (1.4–1.68)	1.15 (1.0–1.25)	0.5 (0.5–0.55)	0.7 (0.63–0.78)	2.22 (2.0–2.4)
<i>Ch. spiralifer</i> ♀♀ (n = 5)	3.7 (3.6–3.8)	2.0 (1.88–2.0)	0.93 (0.85–0.93)	0.5 (0.48–0.5)	0.7 (0.65–0.73)	1.85 (1.79–1.95)

Comments. *Charagochilus weberi* was described by WAGNER (1953) from France, Andorra, Spain, Italy, and Austria, and compared with *Ch. gyllenhalii*. According to the original description, *Ch. weberi* is slightly larger in general size, has larger eyes, longer antennae, and differs in some other small details in the external morphology and the structure of the male genitalia (WAGNER 1953). The keys by WAGNER (1967, 1971) diagnose the species only by differences in the ratios of the vertex width / eye width and antennomere 2 / head width across eyes, but without providing any range for the measured values and thus underestimating the variability. More representative measurements were later published by TAMANINI (1981); however, they showed an overlap in some of the morphometric characters and the associated drawings of the left parameres showed no substantial differences to *Ch. gyllenhalii*. Despite the opinion by LIS *et al.* (2004) that “*Ch. weberi* can easily be separated from *Ch. gyllenhalii*”, the identification of *Ch. gyllenhalii* and *Ch. weberi* remains quite arbitrary. The taxonomy of the group has recently become critical after the discovery of a third European species, *Ch. spiralifer* (SIMON 2007), that, unlike *Ch. weberi*, can be reliably distinguished from *Ch. gyllenhalii* by the structure of the aedaeus (KERZHNER 1988, ZHENG 1990). In Table 1, we provide measurements for *Ch. gyllenhalii* and *Ch. spiralifer*; *Ch. spiralifer* partly fits in the range of the morphometric characters for *Ch. weberi* (see Table 1). This suggests a possibility that *Ch. weberi*, as originally described, is a mixture of macropterous specimens of both *Ch. gyllenhalii* and *Ch. spiralifer* (opinion confirmed by H. Simon, pers. comm.). A critical re-examination of the types of *Ch. weberi* is thus needed to clarify its status.

STEHLÍK (1978) recorded *Ch. weberi* from four localities in southern Moravia: Smolín (6965), Mušov (7165), Strachotín (7065) and Drnholec (7164), and several other localities in Slovakia. A recent re-examination of Stehlík’s voucher specimens deposited in MMBC (P. Kment revid.) revealed that all specimens belong to *Ch. spiralifer*. The only additional record from the Czech Republic comes from the Čertoryje NNR (KMENT 2001). Unfortunately, we were not able to re-examine the voucher specimen originally

identified by J. Bryja and deposited in his collection, so we cannot confirm or correct this identification. Based on the revision of STEHLÍK's (1978) material, *Ch. weberi* can, however, be excluded here from the list of the fauna of Slovakia.

Chlamydatus (Euattus) pulicarius (Fallén, 1807)

Published records. KMENT (2001): Kněždub, Čertoryje NNR (202). KMENT & MALENOVSKÝ (2008): Strání, Záhumenice NM (266).

Material examined. Petrůvka, U Petrůvky NM (14), 6.viii.1999, 1 ♂, P. Kment lgt., J. Bryja det. (PKPC); 13.v.–3.vi.2008, Mt, 2 ♂♂ 1 ♀, 3.–23.vi.2008, Mt, 1 ♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 9.ix.1999, 2 ♂♂, I. Malenovský lgt. (PKPC). Valašské Klobouky, Brumovská street (30), 9.ix.1999, 1 ♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 2 ♂♂, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Poteč, Ploščiny NR (42), 4.vii.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det., 1.vi.2002, 6 ♂♂ 2 ♀♀, I. Malenovský lgt., 24.viii.2002, 12 ♂♂ 3 ♀♀, 17.viii.2006, 3 ♂♂ 3 ♀♀, P. Kment lgt. (PKPC). Valašské Klobouky, Královec – Ploščiny ridge (43), 4.vii.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja revid. (PKPC). Brumov, Uhličky (44), 1.ix.2004, 36 ♂♂ 15 ♀♀, 5.x.2004, 4 ♀♀, 28.v.2005, 9 ♂♂ 9 ♀♀, I. Malenovský lgt., 28.vii.2005, 22 ♂♂ 7 ♀♀, 4.ix.2005, 26 ♂♂ 29 ♀♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 16.vi.2006, 1 ♂, I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 9.ix.1999, 1 ♀, I. Malenovský lgt., 14.viii.2006, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 3.vii.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det., 25.viii.2002, 2 ♂♂, P. Kment lgt., 30.vi.2004, 1 ♀, 16.vi.2006, 1 ♂, I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54) and along road to Nedašov (52), 10.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt., J. Bryja det. (PKPC). Nedašov, Kaňoury NM (55), 17.vi.2006, 1 ♂ 2 ♀♀, I. Malenovský lgt., 12.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt., 16.viii.2006, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55) and surrounding pastures (53), 3.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Nedašov, meadow E of Jalovcová stráž NR (59), 30.vi.2004, 12 ♂♂ 5 ♀♀, 6.ix.2005, 2 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Brumov, Kloboucká street (76), 28.v.2005, 1 ♀, I. Malenovský lgt. (PKPC). Bylničky, Tarandové hill (80), 24.vi.1982, 1 ♂ 1 ♀, P. Lauterer lgt. (MMBC). Bylnice, Lazy NR and environs (82), 12.ix.1999, 3 ♂♂ 2 ♀♀, I. Malenovský & T. Vymyslický lgt., J. Bryja det. (PKPC). Bylnice, railway station environs (83), 11.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 30.vi.2004, 3 ♂♂ 2 ♀♀, 28.vii.2005, 1 ♂, I. Malenovský lgt. (PKPC). Sidonie, Vlárka brook valley (92), 8.ix.1981, 1 ♂, L. Pospíšilová lgt. (MMBC). Korytná, Březí (113), 5.vii.2001, 2 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR (117), 13.viii.2001, 2 ♂♂, P. Kment lgt., 21.vii.2002, 2 ♂♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Horní Němčí, Vinohrádky (121), 30.vi.2001, 2 ♂♂ 1 ♀, I. Malenovský lgt., 13.viii.2001, 4 ♂♂ 5 ♀♀, P. Kment lgt., 20.vii.2002, 3 ♂♂ 5 ♀♀, 10.ix.2002, 3 ♂♂, I. Malenovský lgt. (PKPC). Strání, Obecnice hill, at transmission tower (144), 23.v.2002, 1 ♂, P. Kment & I. Malenovský lgt., 20.vii.2002, 3 ♂♂ 4 ♀♀, I. Malenovský lgt. (PKPC). Lopeník, U Zvonice NM (155), 27.vi.2004, 2 ♂♂ 1 ♀ (1 ♀ freshly hatched), 25.ix.2004, 1 ♀, I. Malenovský lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 25.ix.2004, 1 ♂ 2 ♀♀, I. Malenovský lgt., 3.ix.2005, 1 ♀, P. Kment lgt. (PKPC). Žitková, Hutě NR (164), 9.–29.v.2007, Mt, 1 ♀, 29.v.–19.vi.2007, Mt, 2 ♂♂ 6 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Výškovecké Bošačky, cattle pasture (179), 27.vi.2004, 13 ♂♂ 9 ♀♀, I. Malenovský lgt., 25.ix.2004, 2 ♂♂ 1 ♀, 24.vii.2005, 1 ♂, P. Kment lgt., 3.ix.2005, 5 ♂♂ 11 ♀♀, I. Malenovský lgt. (PKPC). Výškovecké Bošačky, meadow and orchard (180), 27.vi.2004, 4 ♂♂ 2 ♀♀, I. Malenovský lgt., 19.viii.2004, 2 ♂♂ 1 ♀, 24.vii.2005, 1 ♀, P. Kment lgt., 3.ix.2005, 3 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Žitková (163), 11.vi.1999, 1 ♀, K. Hradil lgt. et det. (KHMC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 2 ♂♂ 2 ♀♀, 8.viii.2007, 1 ♂ 4 ♀♀, 22.ix.2007, 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 5 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Výškovec, Pod Hřibovňou NM (176), 28.vi.2004, 4 ♂♂, 3.ix.2005, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 17.viii.2000, 1 ♂ 3 ♀♀, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 22.vi.2001, 1 ♂, 20.ix.2001, 1 ♀, P. Kment lgt., 27.vi.2002, 1 ♂, I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 25.v.2000, 21 ♂♂ 30 ♀♀, P. Kment & I. Malenovský lgt., 18.vi.2000, 1 ♂, I. Malenovský lgt., 8.vii.2000, 1 ♀, P. Kment lgt., 27.vii.2000, 64 ♂♂ 26 ♀♀, P. Kment & I. Malenovský lgt., 16.viii.2000, 29 ♂♂

True bugs (Hemiptera: Heteroptera)

25 ♀♀, P. Kment lgt., 20.viii.–5.ix.2000, pt, 1 ♂, P. Bezděčka lgt., 22.vi.2001, 26 ♂♂ 12 ♀♀, P. Kment & I. Malenovský lgt., 28.vii.2001, 28 ♂♂ 9 ♀♀, I. Malenovský lgt., 20.ix.2001, 1 ♂ 1 ♀, P. Kment lgt., 27.vi.2002, 2 ♂♂ 7 ♀♀, I. Malenovský lgt., 17.viii.2002, 2 ♀♀, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 8.vii.2000, 1 ♂, 16.viii.2000, 4 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC). Radějov, Měsíční údolí valley (214), 20.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 18.viii.2000, 2 ♀♀, P. Kment lgt. (PKPC); 12.v.–2.vi.2009, Mt, 1 ♂ 3 ♀♀, 6.–24.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 23.vi.2004, 1 ♂ 1 ♀, 16.viii.2004, 3 ♂♂ 2 ♀♀, 26.v.2005, 1 ♂ 1 ♀, 27.vii.2005, 5 ♂♂ 1 ♀, 1.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 23.vi.2004, 3 ♂♂ 1 ♀, I. Malenovský lgt., 16.viii.2004, 18 ♂♂ 4 ♀♀, P. Kment lgt., 1.x.2004, 1 ♀, 27.vii.2005, 1 ♂, 1.ix.2005, 1 ♂, I. Malenovský lgt. (PKPC). Trnovský Mlýn, meadow (229), 23.vi.2004, 4 ♂♂ 9 ♀♀, 16.viii.2004, 1 ♂ 1 ♀, 27.vii.2005, 2 ♂♂ 1 ♀, 1.ix.2005, 11 ♂♂ 16 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 1 ♂, I. Malenovský lgt., 18.viii.2000, 6 ♂♂, P. Kment lgt. (PKPC); 2.–25.vi.2009, Mt, 2 ♂♂ 3 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Nad Vápenkou NM (236), 7.ix.2002, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, village (239), 8.viii.2001, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 2 ♂♂, P. Lauterer lgt. (MMBC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 12.v.–2.vi.2009, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 2 ♀♀, I. Malenovský lgt., 8.viii.2001, 6 ♂♂ 1 ♀, 23.ix.2001, 1 ♂, P. Kment lgt., 24.v.2002, 2 ♂♂, 17.vii.2002, 63 ♂♂ 43 ♀♀, 7.ix.2002, 9 ♂♂ 25 ♀♀, 23.vi.2004, 12 ♂♂ 4 ♀♀, 2.ix.2004, 51 ♂♂ 46 ♀♀, 26.v.2005, 10 ♂♂ 3 ♀♀, 27.vii.2005, 23 ♂♂ 12 ♀♀, 1.ix.2005, 11 ♂♂ 5 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 8.viii.2001, 1 ♀, 23.ix.2001, 1 ♀, P. Kment lgt., 23.vi.2004, 3 ♂♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Nová Lhota, Hryzácké Mlýny (246), 3.–22.vi.2009, Mt, 2 ♂♂ 4 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 12.v.–3.vi.2009, Mt, 1 ♂, 3.–22.vi.2009, Mt, 2 ♂♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Výzkum hill (258), 10.vi.1982, 1 ♂ 3 ♀♀, P. Lauterer & J. L. Stehlík lgt. (MMBC). Javorník, Machová NR (259), 28.v.–18.vi.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 8.–28.v.2007, Mt, 1 ♂, 28.v.–18.vi.2007, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 2.vii.2001, 10 ♂♂ 3 ♀♀, I. Malenovský lgt., 9.viii.2001, 3 ♂♂ 3 ♀♀, P. Kment lgt., 21.ix.2001, 6 ♂♂ 11 ♀♀, 20.vii.2002, 4 ♂♂, 12.ix.2002, 5 ♂♂, I. Malenovský lgt. (PKPC). Strání, Záhumenice NM (266), 2.vii.2001, 2 ♀♀, P. Kment & I. Malenovský lgt., 9.viii.2001, 19 ♂♂ 9 ♀♀, P. Kment lgt., 21.ix.2001, 1 ♂ 1 ♀, I. Malenovský lgt., 23.v.2002, 1 ♀, P. Kment lgt., 12.ix.2002, 4 ♂♂ 4 ♀♀, I. Malenovský lgt. (PKPC). Strání, Javorina NNR, meadow (270), 4.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt., 21.viii.2002, 1 ♂, P. Kment lgt. (PKPC); 3.–23.vi.2009, Mt, 2 ♀♀, 15.vii.–6.viii.2009, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Eurosiberian. **Biology and habitat:** A polyphagous phytophage.

In dry to slightly humid open grassland, often epigeic. Very common (WACHMANN *et al.* 2004). **Red List status:** –.

Chlamydatus (Euattus) pullus (Reuter, 1870)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 3.–23.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 1 ♂, M. Horsák & P. Kment lgt., 9.ix.1999, 1 ♂, I. Malenovský lgt. (PKPC). Poteč, Ploščiny NR (42), 1.vi.2002, 1 ♂, I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 16.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Petrůvka, Kladenka brook valley (64), 23.vi.–16.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Horní Němčí, Vinohrádky (121), 30.vi.2001, 4 ♂♂ 1 ♀, I. Malenovský lgt., 13.viii.2001, 3 ♂♂ 1 ♀, 21.ix.2001, 1 ♂, P. Kment lgt., 20.vii.2002, 6 ♂♂ 1 ♀, 10.ix.2002, 4 ♂♂, I. Malenovský lgt. (PKPC). Komňa, Lom Rasová NM (128), 5.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Strání, Obecnice hill, at transmission tower (144), 24.v.2001, 4 ♂♂, I. Malenovský lgt., 2.vii.2001, 4 ♂♂, P. Kment & I. Malenovský lgt., 9.viii.2001, 2 ♂♂ 1 ♀, P. Kment lgt., 21.ix.2001, 3 ♂♂, I. Malenovský lgt., 23.v.2002, 5 ♂♂, P. Kment & I. Malenovský lgt., 20.vii.2002, 2 ♂♂ 3

♀♀, 12.ix.2002, 1 ♂, I. Malenovský lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 24.vii.2005, 1 ♂, I. Malenovský lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 1 ♂, 22.ix.2007, 1 ♂, P. Kment lgt. (PKPC). Vyškovec, Pod Hribovňou NM (176), 24.vii.2005, 2 ♀♀, P. Kment lgt. (PKPC). Vyškovské Bošačky, cattle pasture (179), 27.vi.2004, 1 ♂, I. Malenovský lgt., 25.ix.2004, 2 ♂♂, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 8.ix.2000, 1 ♂, I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 25.v.2000, 4 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt., 18.vi.2000, 3 ♂♂, I. Malenovský lgt., 8.vii.2000, 1 ♂ 1 ♀, P. Kment lgt., 27.vii.2000, 1 ♂, I. Malenovský lgt., 4.viii.2000, 1 ♀, 16.viii.2000, 4 ♂♂ 2 ♀♀, 20.ix.2001, 1 ♂ 2 ♀♀, P. Kment lgt., 27.vi.2002, 1 ♀, I. Malenovský lgt. (PKPC). Hrubá Vrbka, football ground (211), 28.vii.2001, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Hrubá Vrbka, village (212), 27.–29.vi.2008, 1 ♀, Z. Malinka lgt. (ZMOC). Radějov, Měsíční údolí valley (214), 2.vi.1979, 1 ♂, P. Lauterer lgt. (MMBC). Radějov, Kútky NR (217), 26.vi.–15.vii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 24.vii.2000, 1 ♂, I. Malenovský lgt. (PKPC); 12.v.–2.vi.2009, Mt, 1 ♂, 15.vii.–6.viii.2009, Mt, 1 ♂ 1 ♀, 14.ix.–20.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 23.vi.2004, 2 ♂♂, 16.viii.2004, 2 ♂♂, 1.x.2004, 4 ♂♂, 26.v.2005, 6 ♂♂ 4 ♀♀, 27.vii.2005, 3 ♂♂, I. Malenovský lgt. (PKPC). Suchovské Mlýny, meadow (227), 16.viii.2004, 1 ♂, P. Kment lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 16.viii.2004, 3 ♂♂, P. Kment lgt., 1.x.2004, 1 ♂ 1 ♀, 26.v.2005, 1 ♂, 27.vii.2005, 2 ♂♂ 1 ♀, 1.ix.2005, 1 ♂, I. Malenovský lgt. (PKPC). Trnovský Mlýn, meadow (229), 23.vi.2004, 1 ♂, 26.v.2005, 1 ♂, 27.vii.2005, 1 ♂, 1.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 12.v.–2.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 12.v.–2.vi.2009, Mt, 1 ♂, 5.–24.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♂, 17.vii.2002, 4 ♂♂ 1 ♀, 23.vi.2004, 3 ♂♂, 2.ix.2004, 9 ♂♂ 5 ♀♀, 26.v.2005, 1 ♂, 1.ix.2005, 3 ♂♂, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 17.vii.2002, 2 ♂♂, I. Malenovský lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 7.iv.–12.v.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 7.iv.–12.v.2009, Mt, 1 ♂, 12.v.–3.vi.2009, Mt, 1 ♂, 24.viii.–16.ix.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 13.vii.–10.viii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 9.vii.–2.viii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 18.vi.–9.vii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 9.viii.2001, 5 ♂♂ 2 ♀♀, P. Kment lgt., 20.vii.2002, 3 ♂♂ 2 ♀♀, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Holarctic (Eurosiberian, Central Asiatic and Nearctic). **Biology and habitat:** A polyphagous phytophage, with preference for Asteraceae and Fabaceae. In open dry grassland, often epigeic. Very common (WACHMANN *et al.* 2004). **Red List status:** –.

Closterotomus biclavatus biclavatus (Herrich-Schaeffer, 1835)

Published record. STEHLÍK (1948): Javorina [= Mt. Velká Javořina] (255).

Material examined. Petrůvka, U Petrůvky NM (14), 3.–23.vi.2008, Mt, 1 ♀, 16.vii.–4.viii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 1 ♀, M. Horský & P. Kment lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 4 ♂♂ 5 ♀♀, P. Kment & I. Malenovský lgt. (MHBC, PKPC). Poteč, Ploščiny NR (42), 4.vii.1999, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 12.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 17.vi.2006, 2 ♂♂, I. Malenovský lgt. (PKPC). Petrůvka, Kladenka brook valley (64), 3.–23.vi.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Brumov, Holý vrch hill (79), 14.vi.1971, 1 ♀, L. Pospíšilová lgt., 1 ♂ 2 ♀♀, J. L. Stehlík lgt. (MMBC). Bylničky, Tarandové hill (80), 24.vi.1982, 6 ♀♀, P. Lauterer lgt. (MMBC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 1 ♀, P. Kment & M. Omesová lgt. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., 23.v.2002, 2 ♂♂, P. Kment lgt. (PKPC). Horní Němčí, Drahy NR env. (118), 7.vii.1980, 1 ♀, P. Lauterer lgt.

True bugs (Hemiptera: Heteroptera)

(MMBC). Horní Němčí, Lesná hill (123), 24.vii.1980, 2 ♂♂ 6 ♀♀, J. L. Stehlík lgt. (MMBC). Komňa, Nový Dvůr (129), 21.viii.1984, 1 ♀, P. Lauterer lgt. (MMBC). Strání, Důbrava hill (150), 7.vii.1980, 2 ♂♂ 2 ♀♀, P. Lauterer lgt., 1 ♀ L. Pospíšilová lgt. (MMBC). Lopeník (152), 8.vi.1999, 2 ♂♂, K. Hradil lgt. et det. (KHMC). Žitková (163), 11.vi.1999, 2 ♂♂ 1 ♀, K. Hradil lgt. et det. (KHMC). Žitková, Hutě NR (164), 29.v.–19.vi.2007, Mt, 1 ♂ 4 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Vápenice, V Krátkých (170), 6.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Starý Hrozenkov (173), 23.vii.1951, 1 ♂, J. L. Stehlík lgt. (MMBC). Radějov, Žerotín NM (188), 4.–26.vi.2008, Mt, 2 ♀♀, 26.vi.–14.vii.2008, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♂ 4 ♀♀, L. Pospíšilová & J. L. Stehlík lgt. (MMBC). Kněždub, Radějovka brook valley below Čertoryje (198), 17.vi.2000, 1 ♀, 22.vi.2001, 1 ♂, P. Kment lgt. (PKPC). Radějov, Kútky NR (217), 4.–26.vi.2008, Mt, 2 ♂♂ 3 ♀♀, 26.vi.–15.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Mandát brook valley below Kútky NR (218), 4.–26.vi.2008, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 1 ♀, P. Kment lgt. (PKPC); 12.v.–2.vi.2009, Mt, 1 ♂, 2.–25.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 2.–25.vi.2009, Mt, 1 ♂, 15.vii.–5.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 4 ♂♂ 2 ♀♀, P. Lauterer lgt., 1 ♂ 1 ♀, J. L. Stehlík lgt. (MMBC). Javorník, Petruchovy Mlýny, cattle pasture (242), 3.v.2001, 2 ♂♂, P. Kment & I. Malenovský lgt., 29.vi.2001, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 3.–22.vi.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 15.vi.–13.vii.2010, Mt, 1 ♂ 1 ♀, 13.vii.–10.viii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Výzkum hill (258), 10.vi.1982, 3 ♀♀, P. Lauterer & J. L. Stehlík lgt. (MMBC). Javorník, Machová NR (259), 9.vii.1998, 1 ♀, P. Kment lgt., J. Bryja det. (PKPC); 28.v.–18.vi.2007, Mt, 5 ♂♂ 5 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt., 24.v.–15.vi.2010, Mt, 1 ♀, 15.vi.–13.viii.2010, Mt, 3 ♂♂ 2 ♀♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 18.vi.–9.vii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 2.vii.2001, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 15.vi.–9.vii.2010, Mt, 3 ♂♂, 9.vii.–12.viii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 23.vi.–15.vii.2009, Mt, 3 ♂♂ 1 ♀, 15.vii.–6.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: West Eurosiberian. **Biology and habitat:** A polyphagous phytophage. Euryecious, on various deciduous trees and shrubs (e.g. *Vaccinium myrtillus*, *Cytisus scoparius*, *Rubus*, *Lonicera*, *Berberis*, *Corylus*, *Betula*, and *Fraxinus*). Common (WACHMANN *et al.* 2004). **Red List status:** –.

Closterotomus fulvomaculatus (De Geer, 1773)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 3.–23.vi.2008, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 16.vi.2006, 1 ♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 30.vi.1999, 1 ♂, M. Horsák & P. Kment lgt. (PKPC). Petrůvka, Kladenka brook valley (64), 23.vi.–16.vii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Bylnice, Na Stráži (77), 11.vii.2006, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 29.v.–19.vi.2007, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Vápenice, V Krátkých (170), 6.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♂, J. L. Stehlík lgt. (MMBC). Kněždub, Čertoryje NNR, Radějovka brook (204), 25.v.–15.vi.2010, Mt, 2 ♂♂, P. Chvojka & J. Macek lgt. (NMPC). Radějov, Mandát brook valley below Kútky NR (218), 4.–26.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 2.–25.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 2.–25.vi.2009, Mt, 3 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, loampit (235), 24.v.2002, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 2.–25.vi.2009, Mt, 3 ♂♂ 1 ♀, 25.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Nová Lhota, Hryzlácké Mlýny (246), 3.–22.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 3.–22.vi.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 15.vi.–13.vii.2010, Mt, 4 ♂♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 28.v.–18.vi.2007, Mt, 4 ♂♂, 9.vii.–2.viii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 2.vii.2001, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 25.v.–15.vi.2010, Mt, 1 ♀, 15.vi.–9.vii.2010, Mt, 2 ♂♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Holarctic (Eurosiberian and Nearctic). **Biology and habitat:** A polyphagous phytophage, even zoophytophagous. Euryecious, on various herbs (*Filipendula*, *Urtica*), as well as deciduous trees and shrubs (e.g. *Salix*, *Fraxinus*, *Alnus*, *Betula*, *Rubus*, *Rhamnus cathartica*, *Frangula alnus*, *Prunus spinosa*, *Crataegus*); a pest on *Humulus lupulus*. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Closterotomus norwegicus (Gmelin, 1790)

Material examined. Slavičín (69), 10.vii.1989, 6 ♂♂ 1 ♀, I. Vavřínová lgt. (MMBC). Popov (71), 6.viii.1980, 1 ♂ 3 ♀♀, J. L. Stehlík lgt. (MMBC). Bylnice, railway station environs (83), 1.vii.1999, 1 ♀, P. Kment & M. Omesová lgt. (PKPC). Horní Němčí, Lesná hill (123), 24.vii.1980, 1 ♂, J. L. Stehlík lgt. (MMBC). Bánov, Skalky hill (125), 21.viii.1984, 2 ♂♂ 5 ♀♀, P. Raus & J. L. Stehlík lgt. (MMBC). Lopeník, Mikulčín vrch hill (160), 17.vii.1964, 1 ♂, L. Pospíšilová lgt. (MMBC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♂, J. L. Stehlík lgt. (MMBC). Malá Vrbka, between village and Výzkum hill (205), 8.vii.2000, 1 ♂, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 18.vi.2000, 15 ♂♂ 7 ♀♀, I. Malenovský lgt., 8.vii.2000, 2 ♀♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 4 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC). Velká nad Veličkou, village (222), 19.vi.2000, 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** European and Holomediterranean, introduced to North America, Australia, and New Zealand. **Biology and habitat:** A polyphagous phytophage. On various herbs, particularly Asteraceae (*Matricaria*, *Chrysanthemum*, *Tanacetum*, *Achillea*, *Artemisia*, *Senecio*). Euryecious in open grassland habitats, from xerothermic to humid ones, often in ruderal sites. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Compsidolon (Coniortodes) salicellum (Herrich-Schaeffer, 1841)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 23.vi.–16.vii.2008, Mt, 1 ♂, 4.–25.viii.2008, Mt, 1 ♀, 23.ix.–29.x.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 23.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55), 16.viii.2006, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Horní Němčí, Drahy NR (117), on *Corylus avellana*, 13.viii.2001, 1 ♂, P. Kment lgt. (PKPC). Bánov, Skalky hill (125), 21.viii.1984, 1 ♂, J. L. Stehlík lgt. (MMBC). Radějov, Žerotín NM (188), 26.vi.–14.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Mandát brook valley below Kútky NR (218), 15.vii.–5.viii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevěč NNR (232), 14.ix.–22.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 9.vii.–12.viii.2010, Mt, 1 ♂, 12.viii.–9.ix.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area but quite rare. **General distribution:** Eurosiberian; introduced to North America. **Biology and habitat:** Zoophytophagous. Predominantly on *Corylus avellana*, rarely also on other deciduous trees (*Salix*, *Alnus*, *Lonicera*, *Quercus*, *Tilia*, etc.) or *Rubus*, preferring sunny places (forest edges, solitary trees), regardless humidity. Widespread, quite rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded from nine localities in Brno and its environs (67–6865), as well as from Kuřim (66–6765), Hranice (6472), Zbrašov u Hranic (6472), Ondřejov (6069) (STEHLÍK 1961), Odra (Malý les forest, 6373) (BRYJA & KMENT 2001), and Mikulov (Svatý kopeček NR, 7165) (BRYJA & KMENT 2006a).

Cremnocephalus alpestris Wagner, 1941

Material examined. Nedašov, Hrušová dolina valley (53), on *Picea abies*, 3.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Lesná hill (123), 24.vii.1980, 3 ♀♀, L. Pospíšilová & J. L. Stehlík lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected at two sites only. **General distribution:** European. **Biology and habitat:** On *Picea abies*, but also on *Abies*, *Pinus*, or *Larix*. A mountain species, preferring higher altitudes. Quite rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded from the Hrubý Jeseník Mts. (STEHLÍK 1952), Rychlebské hory Mts. (ŠTYS 1956, 1959), Moravskoslezské Beskydy Mts., Javorníky Mts., Vsetínské vrchy Hills, as well as from the environs of Blansko and Tišnov in central Moravia (WYNIGER 2006a,b).

Criocoris crassicornis (Hahn, 1834)

Material examined. Nedašov, Jalovcová stráň NR (54), 1.ix.2004, 1 ♂ 1 ♀, I. Malenovský lgt., 28.vii.2005, 11 ♂♂ 14 ♀♀, I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 2 ♂♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 2 ♂♂ 1 ♀, L. Pospíšilová & J. L. Stehlík lgt. (MMBC). Štítná nad Vláří, south-exposed slopes N of the village (74), 10.vii.2006, 4 ♀♀, O. Konvička lgt. (NMPC). Brumov, Kloboucká street (76), 28.v.2005, 1 ♀, I. Malenovský lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 5 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Bylnice, railway station environs (83), 1.vii.1999, 4 ♂♂ 6 ♀♀, P. Kment & M. Omesová lgt., J. Bryja det. (PKPC). Boršice u Blatnice, Boršický potok brook valley (105), 16.viii.1984, 2 ♀♀, P. Lauterer & J. L. Stehlík lgt. (MMBC). Korytná (115), 23.vii.1951, 13 ♂♂ 5 ♀♀, J. L. Stehlík lgt. (MMBC). Horní Němčí, Drahy NR (117), 21.vii.2007, 1 ♂, I. Malenovský lgt. (PKPC). Bánov, Skalky hill (125), 21.viii.1984, 3 ♂♂ 10 ♀♀, P. Lauterer, P. Raus & J. L. Stehlík lgt. (MMBC). Komňa, Nový Dvůr (129), 21.viii.1984, 1 ♀, J. L. Stehlík lgt. (MMBC). Lopeník, Mikulčín vrch hill (160), 17.vii.1964, 1 ♂, J. L. Stehlík lgt. (MMBC). Žitková, Hutě NR (164), 9.–29.v.2007, Mt, 1 ♀, 11.–31.vii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 14 ♂♂ 5 ♀♀, P. Kment lgt. (PKPC). Výškovec, Pod Hribovňou NM (176), 24.vii.2005, 1 ♂, P. Kment lgt. (PKPC). Výškovcecké Bošačky, meadow and orchard (180), 24.vii.2005, 2 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC). Radějov, Holý vrch hill (189), 4.vii.1977, 2 ♂♂ 1 ♀, L. Pospíšilová & J. L. Stehlík lgt. (MMBC). Kněždub, Radějovka brook valley below Čertoryje (198), 17.vi.2000, 1 ♂, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 28.vii.2001, 1 ♀, P. Kment lgt., 27.vi.2002, 7 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Hrubá Vrbka, football ground (211), 8.vii.2000, 4 ♂♂ 6 ♀♀, P. Kment lgt. (MHBC, PKPC). Suchovské Mlýny, meadow (227), 27.vii.2005, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Javorník, village (239), 8.viii.2001, 1 ♂, P. Kment lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 24.v.2002, 3 ♂♂, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Eurosiberian, extending to Iran. **Biology and habitat:** On *Galium* spp. in open to half-shaded, xerothermic to slightly humid habitats. Common (WACHMANN *et al.* 2004). **Red List status:** –.

***Criocoris nigripes* Fieber, 1861**

(VU)

(Fig. 3)

Material examined. Valašské Klobouky, Javorůvky NR (32), 2.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt., J. Bryja det. (JBSC). Nedašov, Jalovcová stráž NR (54), 30.vi.2004, 2 ♂♂, 16.vi.2006, 3 ♂♂, I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 17.vi.2006, 1 ♂, I. Malenovský lgt. (PKPC). Brumov, Holý vrch hill (79), 14.vi.1971, 3 ♂♂ 1 L, L. Pospíšilová lgt., 1 ♂, J. L. Stehlík lgt. (MMBC). Nedašov, Pod Cigánem NM (91), 30.vi.2004, 2 ♂♂, I. Malenovský lgt. (PKPC). Strání, Důbrava hill (150) 7.vii.1980, 1 ♂, L. Pospíšilová lgt. (MMBC). Vyškovec, Pod Hřibovňou NM (176), 28.vi.2004, 1 ♂, I. Malenovský lgt. (PKPC). Radějov, Holý vrch hill (189), 4.vii.1977, 3 ♂♂ 1 L, L. Pospíšilová lgt., 1 ♂, J. L. Stehlík lgt. (MMBC). Kněždub, Čertoryje NNR (202), 19.vi.1980, 1 ♂, P. Lauterer lgt. (MMBC). Suchovské Mlýny, meadow (227), 23.vi.2004, 1 ♂, I. Malenovský lgt. (PKPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 1 ♂ 2 ♀♀, P. Lauterer lgt. (MMBC). Javorník, Petruchovy Mlýny, meadow (243), 29.vi.2001, 1 ♂, P. Kment lgt., J. Bryja det. (JBSC); 24.v.2002, 1 ♂, P. Kment & I. Malenovský lgt., 23.vi.2004, 6 ♂♂, I. Malenovský lgt. (PKPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 3.–22.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Výzkum hill (258), 10.vi.1982, 2 ♂♂, J. L. Stehlík lgt. (MMBC). Javorník, Machová NR (259), 8.–28.v.2007, Mt, 1 ♂ 1 ♀, 18.vi.–9.vii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt., 24.v.–15.vi.2010, Mt, 2 ♂♂, P. Chvojka & J. Macek lgt. (NMPC).

Additional material examined. MORAVIA: Valtice, Boří dvůr (7266), 180 m a.s.l., 8.vi.1978, 2 ♂♂, L. Pospíšilová lgt. (MMBC, NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, a characteristic species of species-rich meadows. **General distribution:** West Eurosiberian, extending to Transcaucasia (montane). **Biology and habitat:** On species of *Galium* s. l. (*Cruciata laevipes* [= *Galium cruciatum*], *Galium mollugo*) in xerothermic habitats in mountain regions. Rare (WACHMANN *et al.* 2004, MAGNIEN *et al.* 2010). **Red List status:** Vulnerable.

Comments. For Bohemia recorded by ROUBAL (1964) from Milíkov near Stříbro (6243), in Moravia so far known only from a peaty meadow near Karlova Studánka (5969) in the Hrubý Jeseník Mts. (STEHLÍK 1952).

***Cylloceria hystrix* (Linnaeus, 1767)**

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Horní Němčí, Drahy NR (117), 23.v.2002, 2 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC). Žitková (163), 11.vi.1999, 1 ♂ 1 ♀, K. Hradil lgt. et det. (KHMC). Javorník, Petruchovy Mlýny, meadow (243), 24.v.2002, 2 ♀♀, P. Kment lgt. (PKPC). Strání, Záhumenice NM (266), 23.v.2002, 3 ♂♂ 3 ♀♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected in the southern and central parts of the area. **General distribution:** West Eurosiberian, extending to Anatolia and Iran. **Biology and habitat:** Zoophytophagous. On *Quercus* (*Q. robur*, *Q. petraea*), adults rarely occur also on other deciduous trees. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Deraeocoris (Camptobrochis) serenus (Douglas et Scott, 1868)

Material examined. Hrubá Vrbka, village (212), 9.–12.vii.2009, 1 ♀, Z. Malinka lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, found only at one site in the southern part of the area. **General distribution:** Holomediterranean and South Eurosiberian (as far as Mongolia and northern China). **Biology and habitat:** Zoophagous. On herbaceous vegetation (e.g. *Artemisia*) in xerothermic habitats. Not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Deraeocoris (Deraeocoris) annulipes (Herrich-Schaeffer, 1842)

Material examined. Pitín (72), 20.vii.1957, 1 ♀, Ondřej lgt. (MMBC). Horní Němčí, Lesná hill (123), 24.vii.1980, 1 ♂, J. L. Stehlík lgt. (MMBC). Komňa, Lom Rasová NM (128), on *Larix decidua*, 5.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Radějov, Holý vrch hill (189), 4.vii.1977, 3 ♀♀, J. L. Stehlík lgt. (MMBC). Kněždub, Radějovka brook valley below Čertoryje (198), on *Larix decidua*, 17.vi.2000, 1 ♀, 22.vi.2001, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 8 ♂♂ 3 ♀♀, J. L. Stehlík lgt. (MMBC). Nová Lhota, Fojtické Mlýny (245), 24.vii.1980, 1 ♂ 3 ♀♀, L. Pospíšilová lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread in the central and southern parts of the area but rare. **General distribution:** Eurosiberian. **Biology and habitat:** Zoophagous, especially preying on aphids (*Cinara*, *Lachnus*). On *Larix decidua*, occasionally on *Pinus*, preferring medium to higher altitudes. Not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded from Ochoz u Brna (6766) (STEHLÍK 1946b), Boží hora hill (5668) near Žulová in the Rychlebské hory Mts. (ŠTYS 1959), and the environs of Bruntál (DOBŠÍK 1983).

Deraeocoris (Deraeocoris) morio (Boheman, 1852)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 3.–23.vi.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Brumov, Holý vrch hill (79), 14.vi.1971, 1 ♀, J. L. Stehlík lgt. (MMBC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 1 ♂, P. Kment & M. Omesová lgt. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 15.vi.–14.vii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 1 ♀, I. Malenovský lgt. (PKPC); 2.–25.vi.2009, Mt, 18 ♂♂, 25.vi.–15.vii.2009, Mt, 5 ♂♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 1 ♂ 1 ♀, P. Lauterer lgt. (MMBC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 2.–25.vi.2009, Mt, 12 ♂♂ 1 ♀, 25.vi.–15.vii.2009, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 15.vi.–13.vii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 9.vii.1998, 1 ♀, P. Kment lgt., J. Bryja det. (JBSC); 23.vi.2004, 2 ♂♂ 4 ♀♀ (1 ♀ freshly hatched), I. Malenovský lgt. (PKPC); 8.–28.v.2007, Mt, 1 ♂, 28.v.–18.vi.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt., 15.vi.–13.vii.2010, Mt, 2 ♂♂, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 3.–23.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, a characteristic species for species-rich meadows. **General distribution:** European. **Biology and habitat:** Zoophagous. Living predominantly on Lamiaceae (*Stachys recta*,

Thymus, Origanum, Teucrium) in dry and warm, open habitats. Rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. Outside of the Bílé Karpaty PLA, there is only one additional Moravian record – Mrsklesy (63–6470) near Olomouc (STEHLÍK 1961). The records of *D. scutellaris* f. *morio* from Třebíč – Terúvky and Černá Hora (STEHLÍK 1948) belong to *D. scutellaris* (Fabricius, 1794), the record from Bzenec (STEHLÍK 1943) to *D. ventralis* Reuter, 1904 (see STEHLÍK 1961).

Deraeocoris (Deraeocoris) olivaceus (Fabricius, 1777)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 3.–23.vi.2008, Mt, 1 ♀, 23.vi.–16.vii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráň NR (54), 3.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 1 ♂, J. L. Stehlík lgt. (MMBC). Brumov, Holý vrch hill (79), 14.vi.1971, 1 ♂ 1 ♀, L. Pospíšilová lgt., 2 ♂♂, J. L. Stehlík lgt. (MMBC). Bylničky, Tarandové hill (80), 24.vi.1982, 1 ♀, P. Lauterer lgt. (MMBC). Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Březová, Kalábová NM (137), 4.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 1 ♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 14.v.–4.vi.2008, Mt, 1 ♂, 4.–26.vi.2008, Mt, 1 ♂, 26.vi.–14.vii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♀, J. L. Stehlík lgt. (MMBC). Kněždub, Čertoryje NNR, Radějovka brook (204), 25.v.–15.vi.2010, Mt, 1 ♂, 15.vi.–14.vii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Radějov, Kútky NR (217), 26.vi.–15.vii.2008, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Mandát brook valley below Kútky NR (218), 4.–26.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 1 ♀, P. Kment lgt. (PKPC); 12.v.–2.vi.2009, Mt, 1 ♀, 2.–25.vi.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC); 2.–25.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 4 ♂♂, P. Lauterer & J. L. Stehlík lgt. (MMBC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 22.vi.–15.vii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Výzkum hill (258), 10.vi.1982, 1 ♂, J. L. Stehlík lgt. (MMBC). Javorník, Machová NR (259), 18.vi.–9.vii.2007, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 15.vi.–9.vii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Eurosiberian. **Biology and habitat:** Zoophagous. On trees and shrubs of Rosaceae (especially *Crataegus* and *Prunus*), rarely on other deciduous trees. Not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia so far recorded from Brünn bei Černowitz [= Brno – Černovice] (6865), Napajedl [= Napajedla] (6871), Záhoří bei Prossnitz [= part of Prostějov – Čechovice] (6568) (SPITZNER 1892), Uherské Hradiště (6970), Střelice (6771–72) (HOBERLANDT 1947), Lednice (Horní les floodplain forest, 7166) (KŘÍSTEK & DOBŠÍK 1985), Polanka nad Odrou (6275) (BRYJA & KMENT 2001), Mikulov (Svatý kopeček NR, 7165) (BRYJA & KMENT 2006a), and Kurdějov (Kamenný vrch hill, 7066) (MALENOVSKÝ *et al.* 2011).

Deraeocoris (Deraeocoris) ruber (Linnaeus, 1758)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 6.viii.1999, 1 ♀, P. Kment lgt. (PKPC); 23.vi.–16.vii.2008, Mt, 8 ♂♂, 16.vii.–4.viii.2008, Mt, 2 ♂♂ 4 ♀♀, 4.–25.viii.2008, Mt, 2 ♂♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 1 ♀, M. Horsák & P. Kment lgt. (PKPC). Poteč, Ploščiny NR (42), 17.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Brumov, Uhličky (44), 30.vi.2001, 1 ♀ (freshly hatched), P. Kment & I. Malenovský lgt., 13.viii.2001, on *Pinus sylvestris*, 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 28.vii.2005, 5 ♀♀, I. Malenovský lgt., 12.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt., 16.viii.2006, 2 ♀♀, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54) and along road to Nedašov (52), 10.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt., 16.viii.2006, 3 ♀♀, P. Kment lgt. (PKPC). Petrůvka, Kladenka brook valley (64), 23.vi.–16.vii.2008, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Hostětín (70), 10.viii.1970, 1 ♂ 1 ♀, L. Pospíšilová lgt. (MMBC). Pitín (72), 20.vii.1957, 1 ♂ 1 ♀, Ondřej lgt. (MMBC). Štítná nad Vláří, south-exposed slopes N of the village (74), 10.vii.2006, 1 ♂, O. Konvička lgt. (NMPC). Lipov, Pešunk (100), 27.vi.2008, 1 ♂ 1 ♀, 10.vii.2009, 2 ♂♂ 2 ♀♀, Z. Malinka lgt. (ZMOC). Blatnička, Milejovské louky meadows (104), 11.vii.2009, 4 ♂♂ 2 ♀♀, P. Baňar lgt. et det. (MMBC). Boršice u Blatnice, Boršický potok brook valley (105), 16.viii.1984, 1 ♀, J. L. Stehlík lgt. (MMBC). Korytná (115), 23.vii.1951, 1 ♀, J. L. Stehlík lgt. (MMBC). Horní Němčí, Lesná hill (123), 23.vii.1951, 1 ♂, J. L. Stehlík lgt. (MMBC). Bánov, Skalky hill (125), 21.viii.1984, 2 ♂♂ 3 ♀♀, P. Raus & J. L. Stehlík lgt. (MMBC). Strání, Klanečnice brook valley between village and Žabka reservoir (143), 10.vii.1998, 1 ♀, P. Kment lgt., J. Bryja det. (PKPC). Strání, Obecnice hill, S slope (145), 2.vii.2001, 1 ♂, P. Kment lgt. (PKPC). Žitková, Hutě NR (164), 11.–31.vii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 3 ♂♂ 1 ♀, 8.viii.2007, 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 3 ♂♂ 4 ♀♀, 8.viii.2007, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Vyskovec, Pod Hřibovňou NM (176), 24.vii.2005, 1 ♂, P. Kment lgt. (PKPC). Vyskovské Bošachy, meadow and orchard (180), 19.viii.2004, 1 ♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 11.vii.1998, 1 ♂ 1 ♀, P. Kment lgt., J. Bryja det. (PKBC); 4.–26.vi.2008, Mt, 6 ♂♂ 3 ♀♀, 26.vi.–14.vii.2008, Mt, 23 ♂♂ 6 ♀♀, 14.vii.–5.viii.2008, Mt, 2 ♂♂ 8 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Čertoryje NNR (202), 27.vi.2002, 1 ♂, I. Malenovský lgt. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 17.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Radějov, Holý vrch hill (189), 4.vii.1977, 2 ♂♂ 6 ♀♀ 2 L, L. Pospíšilová lgt. (MMBC). Malá Vrbka, Výzkum hill, restored grassland (208), 27.vi.2002, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Hrubá Vrbka, football ground (211), 19.vi.2000, 1 ♂, P. Kment & I. Malenovský lgt., 16.viii.2000, 1 ♀, P. Kment lgt. (PKPC). Hrubá Vrbka, village (212), 27.–29.vi.2008, 2 ♂♂ 2 ♀♀, 9.–12.vii.2009, 6 ♂♂ 2 ♀♀, Z. Malinka lgt. (ZMOC). Radějov, Mandát brook valley below Kútky NR (218), 26.vi.–15.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 13.vii.1998, 1 ♂ 2 ♀♀, P. Kment lgt., J. Bryja det., 19.vi.2000, 2 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC); 30.vi.–1.vii.2008, at night, 2 ♂♂ 2 ♀♀, Z. Malinka lgt. (ZMOC); 25.vi.–15.vii.2009, Mt, 1 ♂, 15.vii.–6.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 2 ♀♀, I. Malenovský lgt. (PKPC); 25.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Vápenky, Porážky NNR (247), 15.vii.1998, 1 ♀, I. Malenovský & M. Omesová lgt., J. Bryja det. (PKPC). Javorník, Machová NR (259), 9.vii.1998, 1 ♂ 2 ♀♀, P. Kment lgt., J. Bryja det. (PKPC); 13.vii.–10.viii.2010, Mt, 1 ♂ 3 ♀♀, 10.viii.–7.ix.2010, Mt, 1 ♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 9.vii.–2.viii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 9.vii.–12.viii.2010, Mt, 2 ♂♂, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 15.vii.–6.viii.2009, Mt, 1 ♂, 6.–24.viii.2009, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: West Palaearctic, introduced to North America and Brazil.

Biology and habitat: Zoophagous. Euryecious, on herbaceous vegetation as well as on trees and shrubs, in open, as well as forest habitats. Very common (WACHMANN *et al.* 2004). **Red List status:** –.

Deraeocoris (Deraeocoris) trifasciatus (Linnaeus, 1767)

Material examined. Brumov, Holý vrch hill (79), 14.vi.1971, 1 ♀, J. L. Stehlík lgt. (MMBC). Bylničky, Tarandové hill (80), 24.vi.1982, 1 ♂, P. Lauterer lgt. (MMBC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 25.v.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 2 ♀♀, P. Kment lgt. (PKPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 1 ♀, J. L. Stehlík lgt. (MMBC). Javorník, Výzkum hill (258), 10.vi.1982, 1 ♂, J. Meduna lgt. (MMBC). Javorník, Machová NR (259), 28.v.–18.vi.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** West Eurosiberian. **Biology and habitat:** Zoophagous. Predominantly on trees and shrubs of the family Rosaceae (*Malus*, *Pyrus*, *Prunus*, *Crataegus*, *Sorbus aucuparia*), less frequently on other deciduous trees (e.g. *Betula*, *Quercus*, *Acer*, *Ulmus*, *Alnus*). Widespread, quite rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded only from Vizovice (6773), Zlín (6771–72) (STEHLÍK 1944), Rohatec (7169) (STEHLÍK 1944, HOBERLANDT 1947), Střelice (6865), Pouzdrány (7065) (HOBERLANDT 1947), Brno (6765–66, 6865–66), Brno – Řečkovice (6765), Kralice nad Oslavou (67–6863), Kobylí (7067) (STEHLÍK 1948), the environs of Bruntál (6070) (DOBŠÍK 1983), and the Poodří PLA (6275) (PAVELKA 1990).

Deraeocoris (Knightocapsus) lutescens (Schilling, 1837)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 6.viii.1999, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Brumovská street (30), 9.ix.1999, 2 ♀♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), on *Corylus avellana*, 14.viii.2006, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Poteč, Ploštiny NR (42), 13.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt., 17.viii.2006, 2 ♀♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 16.vi.2006, 2 ♀♀, I. Malenovský lgt., 14.viii.2006, 2 ♀♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, meadow (48), 19.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, village (51), on *Tilia* sp., 17.viii.2006, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55), 16.viii.2006, 3 ♂♂ 4 ♀♀, P. Kment lgt. (PKPC). Petrůvka, Kladenka brook valley (64), 13.v.–3.vi.2008, Mt, 2 ♀♀, 4.–25.viii.2008, Mt, 1 ♂ 1 ♀, 23.ix.–29.x.2008, Mt, 3 ♂♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Bylnice, between Vlára river and Lazy NR (81), 21.v.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 5.x.2004, 1 ♂, I. Malenovský lgt. (PKPC). Svatý Štěpán, below quarry beneath Okrouhlá NM (98), under scales of the bark of *Abies alba*, 19.xii.2006, 1 ♂, O. Konvička lgt. (NMPC). Boršice u Blatnice, Boršický potok brook valley (105), 16.viii.1984, 1 ♂, J. L. Stehlík lgt. (MMBC). Horní Němčí, village (109), on *Tilia* sp., 13.viii.2001, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Suchov, Kazivec brook valley (116), 9.ix.1998, 3 ♂♂ 4 ♀♀, I. Malenovský & M. Omesová lgt. (PKPC). Strání, Obecnice hill, S slope (145), 2.vii.2001, 1 ♀, P. Kment lgt. (PKPC). Strání, village (147), on *Tilia* sp., 9.viii.2001, 1 ♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 19.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♀, J. L. Stehlík lgt. (MMBC). Radějov, village (194), on *Tilia* sp., 19.viii.2002, 2 spec., P. Kment observ. Kněždub, Čertoryje NNR, Radějovka brook (204), 15.vi.–14.vii.2010, Mt, 1 ♀, 14.vii.–12.viii.2010, Mt, 1 ♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, village (206), on *Tilia* sp., 17.viii.2000, 1 ♂, P. Kment lgt. (PKPC). Malá Vrbka, Vojšické louky meadows (207), 17.iv.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Hrubá Vrbka, football ground (211), 28.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Radějov, Měsíční údolí valley (214), 8.ix.1998, 1 ♀, I. Malenovský & M. Omesová lgt., 20.viii.2002, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Radějov, Kútky NR (217), 4.–26.vi.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Mandát brook valley below Kútky NR (218), 26.vi.–15.vii.2008, Mt, 1 ♂, 5.–26.viii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, old cemetery (223), 18.iv.2000, on Cupressaceae, 1 ♂, P. Kment & I. Malenovský lgt., 18.viii.2000, 5

True bugs (Hemiptera: Heteroptera)

♂♂ 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 18.iv.2000, 4 ♀♀, P. Kment & I. Malenovský lgt., 19.vi.2000, 1 ♀, 18.viii.2000, 1 ♂, P. Kment lgt., 9.–10.ix.2000, 4 ♂♂ 4 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Trnovský Mlýn, along road to Suchovské Mlýny (230), on *Corylus avellana*, 16.viii.2004, 1 ♂, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 1 ♂ 1 ♀, I. Malenovský lgt., 18.viii.2000, 1 ♂, P. Kment lgt. (PKPC); 6.iv.–12.v.2009, Mt, 1 ♂, 14.ix.–22.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, village (239), 8.viii.2001, 4 ♂♂ 3 ♀♀, P. Kment lgt. (PKPC). Nová Lhota, Hryzácké Mlýny (246), 7.iv.–12.v.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 7.iv.–5.v.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Výzkum hill (258), 10.vi.1982, 1 ♀, J. L. Stehlík lgt. (MMBC). Javorník, Machová NR (259), 12.iv.–8.v.2007, Mt, 1 ♂, 28.v.–18.vi.2007, Mt, 2 ♀♀, 9.vii.–2.viii.2007, Mt, 1 ♂, 2.–22.viii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 5.–25.v.2010, Mt, 1 ♀, 15.vi.–9.vii.2010, Mt, 1 ♂, 9.vii.–12.viii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: European and Holomediteranean. **Biology and habitat:** Zoophagous. On various deciduous trees, often on *Tilia*, *Quercus*, *Acer*, *Corylus* and *Ulmus*. Euryecious, also common in city parks (WACHMANN *et al.* 2004). **Red List status:** –.

Dichroscytus intermedius Reuter, 1885

Material examined. Nedašov, Kaňoury NM (55) and surrounding pastures (53), 3.vii.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Strání, village (147), 2.vii.2001, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), on *Picea abies*, 22.vi.2001, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, village (222), at railway station, on *Picea abies*, 29.vi.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, towards Suchovské Mlýny, Velička river valley (233), 29.vi.2001, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** Eurosiberian. **Biology and habitat:** On *Picea abies*, in higher altitudes also on *Abies*, *Larix*, and *Pinus mugo*. Preferring medium and higher altitudes. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded only from the Hrubý Jeseník Mts. (STEHLÍK 1952), Rychlebské hory Mts. (ŠTYS 1959), Moravskoslezské Beskydy Mts. (ROHÁČOVÁ 2001a, 2011), the Poodří PLA (BRYJA & KMENT 2001), and Kamenná NM near Staříč (6375) (ROHÁČOVÁ 2007b).

Dicyphus (Brachyceroea) globulifer (Fallén, 1829)

Material examined. Starý Hrozenkov, Hrozenkovské terasy (167), 22.ix.2007, 1 ♂, P. Kment lgt. (PKPC). Petrov [as Pavlov u Radějova] (182), 24.v.1965, 2 ♂♂ 1 ♀, L. Pospišilová lgt. (MMBC). Javorník, Jazevčí NNR (232), 18.viii.2000, 1 ♂ 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Collected only in the central and southern parts of the area, rare. **General distribution:** Eurosiberian. **Biology and habitat:** On Caryophyllaceae, especially *Melandrium* (*M. album* and *M. rubrum*) and *Lychnis*. Euryecious, in various grassland habitats. Common (WACHMANN *et al.* 2004). **Red List status:** –.

[*Dicyphus (Dicyphus) constrictus constrictus* (Boheman, 1852)]

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Comments. The keys by WAGNER (1952, 1971) did not allow reliable identification of *D. constrictus*, *D. stachydis stachydis* Reuter, 1883, and *D. stachydis wagneri* Tamanini, 1956, and records of these three taxa from central Europe have mostly been confused (see ŠTYS 1976). Using the key by ŠTYS (1976) we can confirm from the Bílé Karpaty Mts. only *D. stachydis wagneri*, to which also the specimens from the Čertoryje NNR, originally misidentified by KMENT (2001) as *D. constrictus*, belong.

***Dicyphus (Dicyphus) epilobii* Reuter, 1883**

Published records. KMENT & BRYJA (2001): Malá Vrbka, Výzkum hill (205); Velká nad Veličkou, bank of Velička river in the village (224).

Material examined. Nedašov, village (51), vegetation along brook, on *Epilobium hirsutum*, 17.viii.2006, 2 ♂♂ 3 ♀♀, P. Kment lgt. (PKPC); 18.viii.2009, on *Epilobium hirsutum*, J. A. Sanchez lgt. et det. (JSAS). Sidonie, Vlárka brook valley (92), 8.ix.1981, 1 ♂, L. Pospíšilová lgt. (MMBC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♂ 1 ♀ 1 spec., P. Kment lgt. (PKPC). Horní Němčí, village (109), village margin, on *Epilobium hirsutum*, 21.ix.2001, 3 ♂♂ 3 ♀♀, P. Kment lgt. (PKPC). Malá Vrbka, between village and Výzkum hill (205), on *Epilobium hirsutum*, 20.ix.2001, 3 ♂♂ 3 ♀♀, P. Kment lgt. (MUBC, PKPC). Velká nad Veličkou, village, Velička river above the weir (224), on *Epilobium hirsutum*, 16.viii.2009, J. A. Sanchez lgt. et det. (JSAS). Javorník, Jazevčí NNR (232), 14.ix.–22.x.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 25.vi.–15.vii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 2.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, not rare. **General distribution:** European. **Biology and habitat:** Zoophytophagous, living on *Epilobium hirsutum* (KMENT & BRYJA 2001, WACHMANN *et al.* 2004). Common in wet places with stands of the host plant, e.g. roadside drain ditches and banks of streams; a neglected species (BRYJA & KMENT 2001, KMENT & BRYJA 2001). **Red List status:** –.

Comments. Recorded for Moravia only recently (BRYJA & KMENT 2001, KMENT & BRYJA 2001, BRYJA *et al.* 2002).

***Dicyphus (Dicyphus) errans* (Wolff, 1804)**

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Dobšená NM (31), 10.ix.1999, 1 ♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 23.viii.2002, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 30.vi.1999, 4 ♂♂ 7 ♀♀, M. Horský & P. Kment lgt. (PKPC). Petruvka, Kladenka brook valley (64), 23.vi.–16.vii.2008, Mt, 5 ♂♂ 2 ♀♀, 23.ix.–29.x.2008, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Slavičín (69), 10.vii.1989, 1 ♀, I. Vavřínová lgt. (MMBC). Brumov, Kloboucká street (76), 5.x.2004, 1 ♂, I. Malenovský lgt. (PKPC). Bylničky, Tarandové hill (80), 24.vi.1982, 1 ♂, P. Lauterer lgt. (MMBC). Boršice u Blatnice, Boršický potok brook valley (105), 16.viii.1984, 2 ♀♀, J. L. Stehlík lgt. (MMBC). Korytná, Březí (113), 5.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Korytná (115), 23.vii.1951, 1 ♀, J. L. Stehlík lgt. (MMBC). Komňa, Nový Dvůr (130), 6.vii.2001, 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov (173), 4.viii.1962, 1 ♂, P. Lauterer lgt. (MMBC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♂, L. Pospíšilová lgt., 3 ♂♂ 5 ♀♀, J. L. Stehlík lgt. (MMBC). Kněždub, Radějovka brook valley

True bugs (Hemiptera: Heteroptera)

below Čertoryje (198), 22.vi.2001, 1 ♂, P. Kment lgt. (PKPC). Tvarožná Lhota, valley of Járkovec brook (201), 17.viii.2000, sweeping of *Urtica* sp., 1 ♂, P. Kment lgt. (PKPC). Radějov, Měsíční údolí valley (214), 20.viii.2002, 2 ♂♂, P. Kment lgt. (PKPC). Radějov, Mandát brook valley below Kútky NR (218), 4.–26.vi.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, village, Velička river above the weir (224), on *Epilobium hirsutum*, 9.ix.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, Háj hill (231), 10.ix.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 3.–22.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 2.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Strání, Javorina NNR, meadow (270), 4.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: West Eurosiberian, extending to Anatolia and Transcaucasia.

Biology and habitat: Zoophytophagous. On various herbs with glandular trichomes (e.g. *Urtica*, *Geranium*, *Stachys*, *Erodium*, *Senecio*, *Silene*, *Melandrium*, *Salvia*). Euryecious, mostly in mesophilous habitats, including the synanthropic ones. Common (WACHMANN *et al.* 2004, VOIGT *et al.* 2006). **Red List status:** –.

Dicyphus (Dicyphus) hyalinipennis (Burmeister, 1835)

Published records. KMENT & BRYJA (2001): Valašské Klobouky, Bílé potoky NR, forest (47); Velká nad Veličkou, Háj hill (231).

Material examined. Valašské Klobouky, Královec hill (33), on *Atropa bella-donna*, 15.viii.2006, 1 ♂ 1 ♀ (ma), 17.viii.2006, 3 ♂♂ 3 ♀♀ (ma), P. Kment lgt. (PKPC); 17.viii.2009, on *Atropa bella-donna*, J. A. Sanchez lgt. et det. (JSAS). Poteč, Ploščiny NR (42), 17.viii.2006, 4 ♂♂ 1 ♀ (ma), P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 14.viii.2006, 1 ♂ (ma), P. Kment lgt. (PKPC). Sidonie, Sidonie NR (87), 5.vii.–11.viii.2010, Mt, 1 ♂ (ma), P. Chvojka & J. Macek lgt. (NMPC). Radějov, Měsíční údolí valley (214), 20.viii.2002, 5 ♂♂ 1 ♀ (ma), I. Malenovský & M. Omesová lgt. (PKPC); 16.viii.2009, on *Atropa bella-donna*, J. A. Sanchez lgt. et det. (JSAS). Radějov, Mandát brook valley below Kútky NR (218), 15.vii.–5.viii.2008, Mt, 1 ♂ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 9.vii.–2.viii.2007, Mt, 1 ♂ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread in forests throughout the area but rare. **General distribution:** Holomediterranean, extending to central Europe. **Biology and habitat:** Zoophytophagous. On *Atropa bella-donna*, rarely on other glandulous plants (WACHMANN *et al.* 2004). In shaded places in forests and along forest edges with stands of its host plant. **Red List status:** –.

Comments. A neglected species, only rarely collected in the Czech Republic (see ŠTYS 1976, KMENT & BRYJA 2001, ROHÁČOVÁ 2003b).

Dicyphus (Dicyphus) pallidus (Herrich-Schaeffer, 1836)

Published records. HOBERLANDT (1947): Javorník (7171). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 1 ♂ (ma) 1 ♀ (br), M. Horskák & P. Kment lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 5 ♂♂ 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Královec hill (33), on *Salvia glutinosa*, 17.viii.2006, 1 ♂ 1 ♀ (ma) 2 ♀♀ (br), P. Kment lgt. (PKPC); 17.viii.2009, on *Salvia glutinosa*, J. A. Sanchez lgt. et det. (JSAS). Poteč, Ploščiny NR (42), 17.viii.2006, 1 ♀ (ma) 2 ♂♂ 1 ♀ (br), P. Kment lgt. (PKPC); 17.viii.2009, on *Salvia glutinosa*, J. A. Sanchez lgt. et det. (JSAS). Návojná, Vrchy hill (45), 12.vii.2006, 1 ♂ 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 30.vi.1999, 3 ♂♂ (ma) 5 ♂♂ 3 ♀♀ (br), M. Horskák & P. Kment lgt. (MUBC, PKPC); 14.viii.2006, 3 ♀♀ (br), P. Kment lgt. (PKPC); 17.viii.2009,

on *Stachys sylvatica*, J. A. Sanchez lgt. et det. (JSAS). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♂ (ma) 1 ♂ 3 ♀♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 1 ♂ (br), P. Kment & I. Malenovský lgt., 16.viii.2006, 1 ♂ 3 ♀♀ (br), P. Kment lgt. (PKPC); 18.viii.2009, on *Stachys alpina*, J. A. Sanchez lgt. et det. (JSAS). Nedašov, Kaňoury NM (55) and surrounding pastures (53), 3.vii.1999, 1 ♂ (ma) 1 ♂ 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Popov (71), 6.viii.1980, 2 ♂♂ (ma) 2 ♂♂ 6 ♀♀ (br), J. L. Stehlík lgt. (MMBC). Bylnice (78), 6.ix.1978, 2 ♀♀ (br), B. Dobšík lgt. (MMBC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 1 ♂ 3 ♀♀ (br) 1 L, P. Kment & M. Omesová lgt., 12.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Bylnice, railway station environs (83), 1.vii.1999, 1 ♂ 1 ♀ (br), P. Kment & M. Omesová lgt. (PKPC). Sidonie, Vlárka brook valley (92), 8.ix.1981, 1 ♀, L. Pospíšilová lgt. (MMBC). Korytná (115), 23.vii.1951, 2 ♂♂, J. L. Stehlík lgt. (MMBC). Horní Němčí, Uvezené NM (120), 10.vii.2009, 1 ♂ (ma) 1 ♀ (br), Z. Malinka lgt. (ZMOC). Horní Němčí, Lesná hill (123), 23.vii.1951, 4 ♀♀, J. L. Stehlík lgt. (MMBC). Komňa, Nový Dvůr (129), 21.viii.1984, 3 ♂♂ (ma) 9 ♂♂ 23 ♀♀ (br), P. Lauterer, P. Raus & J. L. Stehlík lgt. (MMBC). Komňa, Nový Dvůr (130), 6.vii.2001, 1 ♀ (br), P. Kment lgt. (PKPC). Lopeník, Mikulčín vrch hill (160), spruce forest margin, 24.vii.2005, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 8.viii.2007, 1 ♀ (br), P. Kment lgt. (PKPC). Vyškovec, Hřibovňa hill (175), on *Circaea lutetiana*, 25.ix.2004, 1 ♀ (ma), P. Kment lgt. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 17.vi.2000, 2 ♂♂ (ma) 1 ♀ (br), 8.vii.2000, 2 ♀♀ (br), 22.vi.2001, 1 ♂ (br), P. Kment lgt. (PKPC). Radějov, Holý vrch hill (189), 4.vii.1977, 3 ♂♂ 1 ♀ (ma) 3 ♀♀, L. Pospíšilová & J. L. Stehlík lgt. (MMBC). Javorník, Jazevčí NNR (232), 19.vi.2000, 3 ♂♂ (ma) 1 ♂ (br) 2 ♀♀ (br), I. Malenovský lgt. (PKPC). Vápenky, Velička brook valley below Hubertova bouda hut (253), 21.viii.2002, 3 ♀♀ (br), P. Kment lgt. (PKPC, VURV). Javorník, Machová NR (259), beech forest undergrowth, 9.vii.1998, 3 ♀♀, P. Kment lgt., J. Bryja det. (PKPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 18.vi.–9.vii.2007, Mt, 2 ♀♀ (ma), 9.vii.–2.viii.2007, Mt, 1 ♂ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 2.vii.2001, 1 ♂ 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: West Eurosiberian, extending to Iran. **Biology and habitat:** Zoophytophagous. On *Stachys sylvatica*, rarely on *Salvia*, *Satureja*, or *Geranium*. In habitats with humid microclimate, especially forest clearings and margins. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Dicyphus (Dicyphus) stachydis wagneri Tamanini, 1956

Published record. KMENT (2001, as *D. constrictus*, misidentification): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Javorůvky NR (32), 2.vii.1999, 1 ♂ (ma), P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Valašské Klobouky, Královec hill (33), 22.v.1999, 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC); 17.viii.2009, on *Lycopus europaeus* and *Stachys alpina*, J. A. Sanchez lgt. et det. (JSAS). Poteč, Ploščiny NR (42), 17.viii.2006, 3 ♂♂ 2 ♀♀ (br), P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 14.viii.2006, 1 ♂ (ma) 2 ♂♂ 3 ♀♀ (br), P. Kment lgt. (PKPC); 17.viii.2009, on *Rubus fruticosus* agg. and *Stachys sylvatica*, J. A. Sanchez lgt. et det. (JSAS). Horní Němčí, Hornoněmčanský háj forest (108), 10.ix.2002, 3 ♂♂ 2 ♀♀ (br), I. Malenovský lgt. (PKPC). Kněždub, Čertoryje NNR (202), 19.vi.1980, 1 ♀ (br), P. Lauterer lgt. (MMBC). Kněždub, Radějovka brook valley below Čertoryje (198), 17.vi.2000, 1 ♀ (br), 8.vii.2000, 1 ♂ (ma), P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 2.v.2001, 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Hrubá Vrbka, football ground (211), 28.vii.2001, 1 ♀ (br), P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 18.iv.2000, 5 ♀♀ (br), P. Kment & I. Malenovský lgt., J. Bryja det., 9.–10.ix.2000, 1 ♂ (br), P. Kment & I. Malenovský lgt. (PKPC). Vápenky, Velička brook valley below Hubertova bouda hut (253), 21.viii.2002, 2 ♂♂ 3 ♀♀ (br), P. Kment lgt. (PKPC, VURV). Velká nad Veličkou, Háj hill (231), 10.ix.2000, 1 ♂ (br), P. Kment & I. Malenovský lgt. (PKPC). Javorník, Machová NR (259), 14.v.1998, 1 ♂, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area.

General distribution: Holomediterranean, extending to central Europe. **Biology and**

habitat: Zoophytophagous (WACHMANN *et al.* 2004, for *D. stachydis*). It develops on *Stachys sylvatica*, rarely on *Pulmonaria officinalis*, *P. angustifolia*, *Melittis melissophyllum*, and *Melandryum rubrum*; adults were found also on other plants. In shaded undergrowth of various types of forests, ranging from xerothermic oak or hornbeam woods to damp montane fir-beech primeval forests; also along forest margins, in dry grassland, marshes, etc., but always in shady or only moderately insolated situations. Not rare (ŠTYS 1976). **Red List status:** –.

Comments. See the note under *D. constrictus constrictus*.

Dryophilocoris (Dryophilocoris) flavoquadrimaculatus (De Geer, 1773)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Horní Němčí, Drahy NR (117), 23.v.2002, 2 ♀♀, P. Kment lgt. (PKPC). Strání, Klanečnice brook valley between village and Žabka reservoir (143), 16.v.1998, 1 ♂ 1 ♀, P. Kment lgt., J. Bryja det. (PKPC). Radějov, Žerotín NM (188), 14.v.–4.vi.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Čertoryje NNR (202), U Pomníčku, 18.v.2002, 1 ♂, I. Malenovský lgt. (PKPC). Radějov, Mandát brook valley below Kútky NR (218), 14.v.–4.vi.2008, Mt, 3 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.v.1998, 2 ♀♀, P. Kment lgt., J. Bryja det. (PKPC). Javorník, Jazevčí NNR (232), 6.v.2000, 2 ♂♂ 4 ♀♀, I. Malenovský lgt. (PKPC); 6.iv.–12.v.2009, Mt, 3 ♂♂ 1 ♀, 12.v.–2.vi.2009, Mt, 3 ♂♂ 1 ♀, 2.–25.vi.2009, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 12.v.–2.vi.2009, Mt, 1 ♂, 2.–25.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, meadow (243), 24.v.2002, 15 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 7.iv.–12.v.2009, Mt, 1 ♂, 12.v.–3.vi.2009, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 14.v.1998, 1 ♂, P. Kment lgt., J. Bryja det., 8.v.2000, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC); 8.–28.v.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 24.v.2001, 1 ♀, I. Malenovský lgt., 23.v.2002, 5 ♀♀, P. Kment lgt. (PKPC); 25.v.–15.vi.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common in the southern part of the area, not recorded north of the villages of Horní Němčí and Strání. **General distribution:** West Eurosiberian, extending to Maghreb and Transcaucasia. **Biology and habitat:** Zoophytophagous. On *Quercus*, preferring sunlit habitats, mainly forest edges and solitary trees. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Europiella alpina (Reuter, 1875)

Material examined. Poteč, Ploštiny NR (42), 17.viii.2006, 2 ♀♀, P. Kment lgt. (PKPC). Nedašov, Hrušová dolina valley (53), on *Mentha longifolia*, 16.viii.2006, 2 ♂♂ 4 ♀♀, P. Kment lgt. (PKPC). Popov (71), 6.viii.1980, 2 ♂♂ 3 ♀♀, J. L. Stehlík lgt. (MMBC). Sidonie, Vlárka brook valley (92), 8.ix.1981, 2 ♀♀, L. Pospíšilová lgt. (MMBC). Korytná, Březí (113), 5.vii.2001, 3 ♂♂, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Horní Němčí, between village and Drahy NR (114), 13.viii.2001, 1 ♂, P. Kment lgt. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♂ 5 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Lesná hill (123), 24.vii.1980, 1 ♂, L. Pospíšilová lgt. (MMBC). Březová, Kalábová NM (137), 4.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 18.viii.2004, on *Mentha longifolia*, 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 8.viii.2007, 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov (173), 4.viii.1962, 1 ♂, P. Lauterer lgt. (MMBC). Radějov, Holý vrch hill (189), 4.vii.1977, 5 ♀♀, J. L. Stehlík lgt. (MMBC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 8.vii.2000, 1 ♂, P. Kment lgt., J. Bryja det. (PKPC). Radějov, Měsíční údolí valley (214), 20.viii.2002, 1 ♀, P. Kment lgt.

(PKPC); along road to Radějov, 16.viii.2009, 1 ♀, P. Kment lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 16.viii.2004, spring fen, 2 ♀♀, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 18.viii.2000, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Javorník, Výzkum hill (258), 10.vi.1982, 1 ♀, J. L. Stehlík lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area.

General distribution: South Eurosiberian. **Biology and habitat:** On *Mentha*, *Calamintha*, and *Lycopus* species, often on *Mentha aquatica*, in slightly humid to damp habitats, including shaded ones; it prefers medium and higher altitudes. Widespread, not rare (WACHMANN et al. 2004). **Red List status:** –.

Comments. For Moravia recorded only from Březník (6863) (STEHLÍK 1944, as *Plagiognathus alpinus*) and Vyšní Lhoty (Profil Morávky NM, 6376) (ROHÁČOVÁ 2001b).

Europiella artemisiae (Becker, 1864)

Material examined. Poteč, Ploščiny NR (42), 13.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt., J. Bryja det. (PKPC). Valašské Klobouky, Královec – Ploščiny ridge (43), 4.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Horní Němčí, between village and Drahy NR (114), 13.viii.2001, 1 ♂ 1 ♀ (1 ♂ freshly hatched), P. Kment lgt. (PKPC). Bylnice, railway station environs (83), 11.ix.1999, 5 ♂♂ 9 ♀♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 4 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Bánov, Skalky hill (125), 21.viii.1984, 1 ♂, P. Lauterer lgt. (MMBC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 1 ♀, P. Kment lgt. (PKPC). Vápenice, V Krátkých (170), 6.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Kněždubský háj forest (197) and Radějovka brook valley (198), 17.vi.2000, 1 ♂ 1 ♀, P. Kment lgt., J. Bryja revid. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 22.vi.2001, 1 ♀, P. Kment lgt., J. Bryja det. (PKPC). Malá Vrbka, between village and Výzkum hill (205), 18.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 18.vi.2000, 1 ♂ 1 ♀, I. Malenovský lgt., 16.viii.2000, 1 ♂ 1 ♀, P. Kment lgt., 1.x.2000, 1 ♂, 22.x.2000, 1 ♂, P. Kment & I. Malenovský lgt., 22.vi.2001, 1 ♂, P. Kment lgt., 28.vii.2001, 1 ♂, I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 16.viii.2000, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 2.–25.vi.2009, Mt, 3 ♀♀, 14.ix.–20.x.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 2.–25.vi.2009, Mt, 2 ♀♀, 14.ix.–22.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, village (239), 8.viii.2001, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 2.–25.vi.2009, Mt, 1 ♂, 24.viii.–14.ix.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 2.ix.2004, 1 ♂, I. Malenovský lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 3.–22.vi.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 28.v.–18.vi.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 15.vi.–9.vii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Eurosiberian and Central Asiatic. **Biology and habitat:** On *Artemisia* (*A. vulgaris*, *A. campestris*, *A. absinthium*, *A. maritima*). In open, dry to slightly humid habitats, including ruderal sites. Common (WACHMANN et al. 2004). **Red List status:** –.

Eurycolpus flaveolus (Stål, 1858)

(NT)

Material examined. Horní Němčí, Drahy NR (117), 13.viii.2001, 1 ♂ 3 ♀♀, P. Kment lgt., 21.vii.2002, 2 ♂♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Bánov, Skalky hill (125), 21.viii.1984, 5 ♂♂ 2 ♀♀, P. Lauterer lgt.

(MMBC). Radějov, Holý vrch hill (189), 4.vii.1977, 2 ♀♀, J. L. Stehlík lgt. (MMBC). Kněždub, Kněždubský háj forest (197), 17.vi.2000, 2 ♂♂, 8.vii.2000, 1 ♂, P. Kment lgt. (PKPC). Malá Vrbka, between village and Výzkum hill (205), on *Bupleurum* sp., 28.vii.2001, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 6 ♂♂ 4 ♀♀, P. Kment lgt. (MHBC, PKPC); 24.vii.2000, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♀ (freshly hatched), P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, confined to xerothermic localities in the southern part of the area. **General distribution:** Eurosiberian and Central Asiatic. **Biology and habitat:** On *Bupleurum* (especially *B. falcatum*) in xerothermic, open to half-shaded habitats on soils rich in calcium (WACHMANN *et al.* 2004). **Red List status:** Near-threatened.

Comments. The distribution in Moravia is poorly known; available records were reviewed by MALENOVSKÝ *et al.* (2011).

Globiceps (Globiceps) sphaegiformis (Rossi, 1790)

Material examined. Petrůvka, U Petrůvky NM (14), 3.–23.vi.2008, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 3 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 1 ♂, P. Kment & M. Omesová lgt. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 2 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area except its southernmost part but rare. **General distribution:** North Mediterranean, extending to central Europe. **Biology and habitat:** Zoophytophagous. On deciduous trees and shrubs (e.g. on *Corylus*, *Quercus*, *Rhamnus*, *Prunus spinosa*, *Acer*, *Viburnum*, or *Carpinus*). In sunny places (along forest margins, on solitary trees and shrubs). Widespread but quite rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia known from Prossnitz [= Prostějov] (6568) (SPITZNER 1892), Uherské Hradiště (6970) (HOBERLANDT 1947), Pustiměř (6668), Tišnov – Předklášteří (6664), Brno – Bystrc (6765), Brno – Lískovec (Kamenný vrch hill, 6865), Zlín (6771–72) (STEHLÍK 1948, as *G. sphaegidiformis*), Rokytná (Tábor, 6963) (BRYJA *et al.* 2002, as *P. sphaegiformis*), Mikulov (Svatý kopeček NR, 7165) (BRYJA & KMENT 2006a), Budkovice (Budkovické skály rocks, 6964), Kurdějov (Kamenný vrch hill, 7066), and Sedlec (Skalky, 7266) (MALENOVSKÝ *et al.* 2011).

Globiceps (Kelidocoris) flavomaculatus (Fabricius, 1794)

Material examined. Petrůvka, U Petrůvky NM (14), 23.vi.–16.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 2 ♂♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 3.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt., 12.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 1 ♂ 3 ♀♀, J. L. Stehlík lgt. (MMBC). Popov (71), 6.viii.1980, 3 ♂♂ 7 ♀♀, J. L. Stehlík lgt. (MMBC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 1 ♂, P. Kment & M. Omesová lgt. (PKPC). Boršice u Blatnice, Boršický potok brook valley (105), 16.viii.1984, 1 ♀, J. L. Stehlík lgt. (MMBC). Korytná, Březi (113), 5.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Bánov, Skalky hill (125), 21.viii.1984, 1 ♂, J. L. Stehlík lgt. (MMBC).

Žitková, Hutě NR (164), 19.vi.–11.vii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Vyškovecké Bošačky, cattle pasture (179), 24.vii.2005, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Vyškovecké Bošačky, meadow and orchard (180), 19.viii.2004, 1 ♀, I. Malenovský lgt., 24.vii.2005, 1 ♂, P. Kment lgt. (PKPC). Radějov, Holý vrch hill (189), 4.vii.1977, 2 ♀♀, J. L. Stehlík lgt. (MMBC). Kněždub, Kněždubský háj forest (197), 28.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 17.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 27.vi.2002, 1 ♂ 7 ♀♀, I. Malenovský lgt. (PKPC). Radějov, Kútky NR (217), 26.vi.–15.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 29.vi.2001, 1 ♂, P. Kment lgt. (PKPC). Javorník, towards Suchovské Mlýny, Velička river valley (233), 29.vi.2001, 2 ♀♀, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 25.vi.–15.vii.2009, Mt, 1 ♂, 15.vii.–5.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♀, I. Malenovský lgt., P. Kment det., J. Bryja rev. (PKPC). Javorník, Machová NR (259), 13.vii.–10.viii.2010, Mt, 2 ♂♂, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Eurosiberian. **Biology and habitat:** Zoophytophagous. On herbaceous and shrubby vegetation in humid, open habitats, often along forest margins or among lower shrubs (e.g. *Salix*). Common (WACHMANN *et al.* 2004). **Red List status:** —.

***Globiceps (Kelidocoris) fulvicollis* Jakovlev, 1877**

= *Globiceps (Kelidocoris) cruciatus* Reuter, 1879

Published records. HOBERLANDT (1947, as *G. cruciatus*): Javorník (7171). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Popov (71), 6.viii.1980, 1 ♂ 1 ♀, J. L. Stehlík lgt. (MMBC). Bylnice, Na Stráži (77), 11.vii.2006, 2 ♂♂ 4 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Radějov, Žerotín NM (188), 4.–26.vi.2008, Mt, 1 ♂, 26.vi.–14.vii.2008, Mt, 1 ♂, 14.vii.–5.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Holý vrch hill (189), 4.vii.1977, 2 ♂♂ 2 ♀♀, J. L. Stehlík & L. Pospíšilová lgt. (MMBC). Kněždub, Radějovka brook valley below Čertoryje (198), 22.vi.2001, 1 ♂, P. Kment lgt. (PKPC). Radějov, Kútky NR (217), 26.vi.–15.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 3 ♀♀, P. Kment lgt., J. Bryja det. (JBSC, PKPC). Suchovské Mlýny, sheep pasture (226), 23.vi.2004, 1 ♀, 27.vii.2005, 2 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 25.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 2 ♀♀, P. Lauterer lgt. (MMBC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 2.–25.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** West Eurosiberian and Central Asiatic. **Biology and habitat:** Zoophytophagous. On shrubs (e.g. *Calluna*, *Vaccinium*, and *Cytisus scoparius*) as well as on herbaceous vegetation in dry, open, as well as half-shaded habitats, including the undergrowth of open forests. Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** —.

***Grypocoris (Lophyromiris) sexguttatus* (Fabricius, 1777)**

Published record. STEHLÍK (1948, as *Calocoris sexguttatus*): Javorina [= Mt. Velká Javořina] (255).

Material examined. Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 2.vii.1999, 5 ♂♂ 2 ♀♀ (MUBC, PKPC). Poteč, Ploščiny NR (42), 4.vii.1999, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Návojná, Vrchy hill (45), 12.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 30.vi.1999, 1 ♀, M.

Horsák & P. Kment lgt. (PKPC). Bylničky, Tarandové hill (80), 24.vi.1982, 1 ♂ 4 ♀♀, P. Lauterer lgt. (MMBC). Horní Němčí, Lesná hill (123), 24.vii.1980, 1 ♀, J. L. Stehlík lgt. (MMBC). Žitková (163), 11.vi.1999, 1 ♂ 1 ♀, K. Hradil lgt. et det. (KHMC). Javorník, Jazevčí NNR (232), 19.vi.2000, 1 ♀, I. Malenovský lgt. (PKPC). Strání, Javorina NNR, forest (269), forest margin, sweeping of undergrowth, 3.vii.2001, 1 ♂, M. Horsák & P. Kment lgt. (PKPC). Strání, Javorina NNR, meadow (270), 4.vii.2001, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 23.vi.–15.vii.2009, Mt, 7 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, confined to higher altitudes throughout the area. **General distribution:** West Eurosiberian (boreo-montane).

Biology and habitat: A polyphagous phytophage. On various herbs (e.g. *Stachys*, *Urtica*, *Galeopsis*, *Aconitum*, *Melampyrum*, and *Senecio*) in humid, half-shaded habitats, such as forest margins and clearings, vegetation along forest paths, and banks of streams. A boreo-montane species, preferring higher altitudes; rare (STEHLÍK 1952, WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia so far recorded from several localities in the Hrubý Jeseník Mts. (FIEBER 1864, as *Calocoris kolenatii* Fieber; SPITZNER 1892, STEHLÍK 1952, both as *Calocoris sexguttatus*), Mt. Velká Javořina in the Bílé Karpaty PLA, Třebíč (Lorenzovy sady park, 6760) (STEHLÍK 1948, as *Calocoris sexguttatus*), Mt. Králícký Sněžník (5767, 5866–67) (ŠTYS 1957, as *Calocoris sexguttatus*), Hraničky (5667d) in Rychlebské hory Mts. (ŠTYS 1959, as *Calocoris sexguttatus*), Moravskoslezské Beskydy Mts. (Mazák NNR, 6476) (ROHÁČOVÁ 1990a, as *Calocoris sexguttatus*), but also from the floodplain of the Poodří PLA (BRYJA & KMENT 2001).

Hallodapus montandoni Reuter, 1895

Material examined. Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 18.vi.–9.vii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, found at one site in the southern part of the area with a Malaise trap. **General distribution:** South Eurosiberian and Central Asiatic. **Biology and habitat:** An epigeic species inhabiting xerothermic habitats, mostly on limestone, rarely on a sandy ground. Possibly associated with ants, especially *Myrmica* spp. Rare (WACHMANN *et al.* 2004, KMENT *et al.* 2005). **Red List status:** –.

Comments. In Moravia, *H. montandoni* has been known so far only from a few xerothermic localities in the Pannonicum: Sedlec (Slanisko u Nesytu NNR, 7266) (STEHLÍK 1961, WYNIGER 2006a,b), Dyje (7162), Oblekovice (7162) (KMENT *et al.* 2005, WYNIGER 2006a,b), and Žerotice (7062) (KMENT *et al.* 2005, WYNIGER 2006b).

Halticus apterus apterus (Linnaeus, 1758)

Published records. KMENT (2001): Kněždub, Čertoryje NNR (202). KMENT & MALENOVSKÝ (2008): Nedašov, Jalovcová stráž NR (54).

Material examined. Petrůvka, U Petrůvky NM (14), 6.viii.1999, 1 ♂ (br), P. Kment lgt., J. Bryja det. (PKPC). Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 4 ♂♂ 4 ♀♀ (br), P. Kment & I. Malenovský lgt., J. Bryja revid. (PKPC). Poteč, Ploščiny NR (42), 4.vii.1999, 4 ♂♂ 1 ♀ (br) 1 L, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Valašské Klobouky, Královec – Ploščiny ridge (43), 4.vii.1999, 1 ♂ (br), P. Kment & I.

Malenovský lgt. (PKPC). Brumov, Uhličky (44), 28.vii.2005, 1 ♂ 1 ♀ (br), P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 4 ♂♂ 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 3.vii.1999, 1 ♂ (br), P. Kment & I. Malenovský lgt., 25.viii.2002, 1 ♀ (br), P. Kment lgt., 1.ix.2004, 17 ♂♂ 12 ♀♀ (br), 5.x.2004, 1 ♀ (br), 28.vii.2005, 2 ♂♂ 2 ♀♀ (ma) 101 ♂♂ 39 ♀♀ (br), I. Malenovský lgt., 12.vii.2006, 1 ♂ (br), P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54) and along road to Nedašov (52), 10.ix.1999, 1 ♂ 6 ♀♀ (br), I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 1 ♂ (ma) 3 ♂♂ (br), P. Kment & I. Malenovský lgt., 16.viii.2006, 2 ♂♂ (br), P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55) and surrounding pastures (53), 3.vii.1999, 2 ♂♂ 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 1 ♂ 2 ♀♀ (br, 1 ♂ 1 ♀ in copula) J. L. Stehlík lgt. (MMBC). Popov (71), 6.viii.1980, 1 ♂ (ma) 2 ♂♂ 2 ♀♀ (br), J. L. Stehlík lgt. (MMBC). Bylnice, Na Stráži (77), 11.vii.2006, 3 ♂♂ 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Bylničky, Tarandové hill (80), 24.vi.1982, 1 ♀ (br), P. Lauterer lgt. (MMBC). Bylnice, railway station environs (83), 11.ix.1999, 1 ♀ (br), I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 28.vii.2005, 2 ♂♂ 2 ♀♀ (br), 6.ix.2005, 1 ♀ (br), I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 24.v.2009, 8 ♂♂ 9 ♀♀ (br), 11.vii.2009, 4 ♂♂ 2 ♀♀ (br), 16.viii.2009, 4 ♀♀ (br), P. Baňář lgt. et det. (MMBC). Boršice u Blatnice, Boršický potok brook valley (105), 16.viii.1984, 1 ♂ 2 ♀♀ (br), J. L. Stehlík lgt. (MMBC). Lipov, Pešunk (100), 27.vi.2008, 1 ♂ (ma) 6 ♂♂ 5 ♀♀ (br), 10.vii.2009, 7 ♂♂ 2 ♀♀ (br), Z. Malinka lgt. (ZMOC, 1 ♂ NMPC). Korytná, Březi (113), 5.vii.2001, 2 ♂♂ (br), P. Kment & I. Malenovský lgt. (PKPC). Korytná (115), 23.vii.1951, 1 ♂ (br), J. L. Stehlík lgt. (MMBC). Horní Němčí, Drahy NR (117), 30.vi.2001, 3 ♂♂ (br), P. Kment & I. Malenovský lgt., 13.viii.2001, 3 ♂♂ 11 ♀♀ (br), P. Kment lgt., 21.vii.2002, 44 ♂♂ 35 ♀♀ (br), I. Malenovský lgt. (PKPC). Horní Němčí, Vinohrádky (121), 20.vii.2002, 1 ♀ (br), I. Malenovský lgt. (PKPC). Horní Němčí, Lesná hill (123), 23.vii.1951, 2 ♂♂ (br), J. L. Stehlík lgt. (MMBC). Bánov, Skalky hill (125), 21.viii.1984, 2 ♂♂ 4 ♀♀ (br), P. Lauterer, J. Stehlík & P. Raus lgt. (MMBC). Lopeník, U Zvonice NM (155), 24.vii.2005, 1 ♂ (br), I. Malenovský lgt., 3.ix.2005, 1 ♀ (br), P. Kment lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 18.viii.2004, 1 ♀ (br), P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 4 ♂♂ (br), 8.viii.2007, 1 ♂ (br) 1 ♀ (ma), P. Kment lgt. (PKPC). Vyškovce, Pod Hřibovňou NM (176), 28.vi.2004, 1 ♀ (ma), 3.ix.2005, 8 ♂♂ 15 ♀♀ (br), I. Malenovský lgt. (PKPC). Vyškovce, Bošačky, cattle pasture (179), 25.ix.2004, 2 ♂♂ 6 ♀♀ (br), P. Kment lgt., 3.ix.2005, 1 ♂ (br), I. Malenovský lgt. (PKPC). Vyškovce, Bošačky, meadow and orchard (180), 19.viii.2004, 10 ♂♂ 3 ♀♀ (br), 25.ix.2004, 1 ♂ (br), P. Kment lgt., 3.ix.2005, 3 ♂♂ 4 ♀♀ (br), I. Malenovský lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 19.viii.2002, 2 ♀♀ (br), P. Kment lgt. (PKPC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♂ (ma) 5 ♂♂ 3 ♀♀ (br), L. Pospíšilová & J. L. Stehlík lgt. (MMBC). Kněždub, Kněždubský háj forest (197), 17.vi.2000, 3 ♂♂ 1 ♀ (br), 8.vii.2000, 2 ♂♂ (br), 17.viii.2000, 1 ♂ 3 ♀♀ (br), P. Kment lgt., 28.vii.2001, 2 ♂♂ 2 ♀♀ (ma) 2 ♂♂ 2 ♀♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 17.vi.2000, 1 ♂ (br), P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 22.vi.2001, 1 ♂ (br), 28.vii.2001, 1 ♂ 2 ♀♀ (br), P. Kment lgt., 27.vi.2002, 1 ♂ (ma) 4 ♂♂ 2 ♀♀ (br), I. Malenovský lgt. (PKPC). Hrubá Vrbka, football ground (211), 8.vii.2000, 1 ♀ (br), 16.viii.2000, 2 ♀♀ (br), P. Kment lgt. (PKPC). Hrubá Vrbka, village (212), 9.–12.vii.2009, 2 ♂♂ 2 ♀♀ (br), Z. Malinka lgt. (ZMOC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 3 ♂♂ 2 ♀♀ (br), P. Kment lgt., 24.vii.2000, 4 ♂♂ 4 ♀♀ (br), I. Malenovský lgt., 18.viii.2000, 1 ♂ (ma) 3 ♂♂ 4 ♀♀ (br), P. Kment lgt. (PKPC). Suchovské Mlýny, sheep pasture (226), 23.vi.2004, 1 ♂ (ma) 2 ♂♂ 1 ♀ (br), 16.viii.2004, 2 ♂♂ 2 ♀♀ (br), 27.vii.2005, 16 ♂♂ 8 ♀♀ (br), I. Malenovský lgt. (PKPC). Suchovské Mlýny, meadow (227), 16.viii.2004, 3 ♂♂ 3 ♀♀ (br), P. Kment lgt., 27.vii.2005, 224 ♂♂ 146 ♀♀ (br), 1.ix.2005, 1 ♂ (br), I. Malenovský lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 16.viii.2004, 2 ♂♂ 3 ♀♀ (br), P. Kment lgt., 1.x.2004, 1 ♂ (br), 27.vii.2005, 2 ♂♂ (ma) 20 ♂♂ 25 ♀♀ (br), 1.ix.2005, 1 ♂ 1 ♀ (br), I. Malenovský lgt. (PKPC). Trnovský Mlýn, meadow (229), 27.vii.2005, 1 ♀ (ma) 15 ♂♂ 9 ♀♀ (br), I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 9 ♂♂ 5 ♀♀ (br), I. Malenovský lgt., 18.viii.2000, 3 ♂♂ 8 ♀♀ (br), P. Kment lgt. (PKPC). Javorník, village (239), 8.viii.2001, 1 ♀ (br), P. Kment lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♂ 1 ♀ (br), P. Kment & I. Malenovský lgt., 7.ix.2002, 3 ♂♂ 1 ♀ (br), 27.vii.2005, 1 ♂ 3 ♀♀ (ma), I. Malenovský lgt. (PKPC). Strání, Záhumenice, cattle pasture (265), 20.vii.2002, 1 ♀ (br), I. Malenovský lgt. (PKPC). Strání, Záhumenice NM (266), 2.vii.2001, 1 ♂ (br), P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Eurosiberian, extending to Maghreb and Central Asiatic;

introduced to North America. **Biology and habitat:** On Fabaceae (*Ononis*, *Trifolium*, *Vicia*, *Lathyrus*, *Lotus*, etc.), Rubiaceae (*Galium*, *Asperula*) and Scrophulariaceae (*Odontites*) in open, dry to slightly humid habitats (e.g. meadows and ruderal vegetation). Common (WACHMANN *et al.* 2004). **Red List status:** –.

***Halticus luteicollis* (Panzer, 1804)**

Material examined. Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 1 ♂ 1 ♀, L. Pospíšilová lgt. (MMBC). Petrůvka, Kladenka brook valley (64), 23.vi.–16.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Korytná (115), 23.vii.1951, 1 spec., J. L. Stehlík lgt. (MMBC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 2 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC). Boršice u Blatnice, towards Hluk (105), 16.viii.1984, 1 ♀, J. L. Stehlík lgt. (MMBC). Radějov, Žerotín NM (188), 26.vi.–14.vii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Holý vrch hill (189), 4.vii.1977, 4 ♂♂ 8 ♀♀, J. L. Stehlík lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, rare. **General distribution:** West Eurosiberian, extending to Maghreb, Anatolia and Transcaucasia. **Biology and habitat:** On Fabaceae (e.g. *Ononis*, *Trifolium*, *Vicia*, *Lathyrus*, and *Lotus*), Rubiaceae (*Galium*, *Asperula*) and Scrophulariaceae (*Odontites*) in open, dry to slightly humid habitats (e.g. meadows and ruderal vegetation). Common (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. Widespread in Moravia, but poorly documented in literature (see RAUS 1990, MALENOVSKÝ *et al.* 2011).

***Halticus pusillus* (Herrich-Schaeffer, 1835)**

(VU)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Blatnička, Milejovské louky meadows (104), 24.v.2009, 2 ♂♂ 2 ♀♀, P. Baňář lgt. et det. (MMBC). Horní Němčí, Drahy NR (117), 30.vi.2001, 37 ♂♂ 7 ♀♀, P. Kment & I. Malenovský lgt., 13.viii.2001, 10 ♂♂ 11 ♀♀, P. Kment lgt., 21.vii.2002, 22 ♂♂ 24 ♀♀, I. Malenovský lgt. (PKPC). Horní Němčí, Lesná hill (123), 23.vii.1951, 1 ♂ 2 ♀♀, J. L. Stehlík lgt. (MMBC). Komňa, Nový Dvůr (129), 21.viii.1984, 1 ♂, P. Lauterer lgt. (MMBC). Kněždub, Kněždubský háj forest (197), 17.vi.2000, 2 ♂♂, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 24.vii.2000, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC); 25.vi.–15.vii.2009, Mt, 1 ♂, 15.vii.–6.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 16.viii.2004, 1 ♂, I. Malenovský lgt. (PKPC). Suchovské Mlýny, meadow (227), 27.vii.2005, 1 ♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 25.vi.–15.vii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Not rare but confined to xerothermic habitats in the southern part of the area. **General distribution:** Eurosiberian and Central Asiatic. **Biology and habitat:** On *Galium*, possibly also on Fabaceae, in xerothermic habitats. Rare (WACHMANN *et al.* 2004). **Red List status:** Vulnerable.

Comments. First recorded for Moravia by STEHLÍK (1946a), under a wrong name and an incorrect year of description: “*Halticus apterus* H. S. 1935. Mohelno 20.VIII.1943 (lgt. prof. Šnoflák)”. ROUBAL (1968) listed this Stehlík’s record from Mohelno (6863) correctly as *H. pusillus*. Later *H. pusillus* was recorded by KMENT (2001) from the Čertoryje NNR in the Bílé Karpaty PLA, BRYJA & KMENT (2006a) from Mikulov (Svatý kopeček NR, 7165), and by MALENOVSKÝ *et al.* (2011) from eight additional localities within the Pannonicum.

***Harpocera hellenica* Reuter, 1876**

Material examined. Nová Lhota, Hryzlácké Mlýny (246), 7.iv.–12.v.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 8.–28.v.2007, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, found only in Malaise trap samples from two localities in the south of the area. **General distribution:** Ponto-Mediterranean, extending to the Pannonicum. Recorded from Albania, Bulgaria, Greece, Asian Turkey, Israel, Jordan (KERZHNER & JOSIFOV 1999, CARAPEZZA 2002), Czech Republic, perhaps also from Slovakia (KMENT *et al.* 2005) and Austria (RABITSCH 2010). **Biology and habitat:** A zoophytophagous species living on oaks (*Quercus* spp.). It overwinters in the egg stage, adults appear for only a short period in May (JOSIFOV 1978, KMENT *et al.* 2005, RABITSCH 2010). Apparently rare. **Red List status:** Not evaluated; a candidate species for the next edition of the Red List.

Comments. *Harpocera hellenica* was first recorded from central Europe based on two females collected on May 9, 2003, on the Děvín hill near Pavlov (7165); another freshly hatched and badly preserved male from Devínska Kobyla in southwestern Slovakia was tentatively assigned to this species as well (KMENT *et al.* 2005). RABITSCH (2010) collected several males and females on May 1, 2010, in Wien – Stammersdorf in Austria. Here we present two additional localities apparently situated on the very northern limit of the species' distributional range.

***Harpocera thoracica* (Fallén, 1807)**

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 13.v.–3.vi.2008, Mt, 3 ♂♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 19.v.1999, 2 ♀♀ (1 ♀ freshly hatched), P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 22.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Hrušová dolina valley (53), 20.v.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Petrůvka, Kladenka brook valley (64), 13.v.–3.vi.2008, Mt, 15 ♂♂ 12 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Klanečnice brook valley between village and Žabka reservoir (143), 16.v.1998, 3 ♀♀, P. Kment lgt., J. Bryja det. (PKPC). Strání (149), 9.vi.1991, 1 ♂, P. Kapitola lgt., K. Hradil det. (KHMC). Žitková, Hutě NR (164), 9.–29.v.2007, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov (173), 8.vi.1991, 5 ♂♂ 2 ♀♀, P. Kapitola lgt., K. Hradil det. (KHMC). Vyškovec, Pod Hřibovnou NM (176), 21.v.2005, 1 ♂, P. Kment lgt. (PKPC). Vyškovec, Ve Vlčí NR (177), 22.v.2005, 1 ♂, I. Malenovský lgt., K. Hradil det. (PKPC). Radějov, Žerotín NM (188), 14.v.–4.vi.2008, Mt, 3 ♂♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Tvarožná Lhota, Lučina reservoir (199), 13.v.1998, 1 ♀, P. Kment lgt., J. Bryja det. (PKPC). Radějov, Mandát brook valley below Kútky NR (218), 14.v.–4.vi.2008, Mt, 2 ♂♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.v.1998, 2 ♀♀, P. Kment lgt., J. Bryja det. (PKPC); 8.iv.–12.v.2009, Mt, 2 ♂♂ 2 ♀♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 6.v.2000, 6 ♂♂ 2 ♀♀, I. Malenovský lgt. (PKPC); 6.iv.–12.v.2009, Mt, 43 ♂♂ 35 ♀♀, 12.v.–2.vi.2009, Mt, 21 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 6.iv.–12.v.2009, Mt, 36 ♂♂ 32 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, meadow (243), 24.v.2002, 1 ♀, P. Kment lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 7.iv.–12.v.2009, Mt, 23 ♂♂ 22 ♀♀, 12.v.–3.vi.2009, Mt, 3 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 7.iv.–12.v.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 14.v.1998, 1 ♂ 1 ♀, P. Kment lgt., J. Bryja det., 8.v.2000, 3 ♀♀, I. Malenovský lgt. (PKPC); 12.iv.–8.v.2007, Mt, 32 ♂♂ 18 ♀♀, 8.–28.v.2007, Mt, 204 ♂♂ 119 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt.,

5.–24.v.2010, Mt, 7 ♂♂ 7 ♀♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 8.–28.v.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 23.v.2002, 1 ♀, P. Kment lgt. (PKPC); 5.–25.v.2010, Mt, 12 ♂♂ 2 ♀♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 7.iv.–13.v.2009, Mt, 5 ♂♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area, especially in its southern part. **General distribution:** West Eurosiberian, extending to Anatolia and Iran. **Biology and habitat:** Zoophytophagous, associated with *Quercus*. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Heterocapillus tigris (Mulsant et Rey, 1852) (VU) (Fig. 4)

Published records. HOBERLANDT (1947, as *Atractotomus tigris*): Javorník (7171). KMENT (2001): Kněždub, Čertoryje NNR (202). KMENT & MALENOVSKÝ (2004, 2008): Nedašov, Jalovcová stráž NR (54).

Material examined. Nedašov, Jalovcová stráž NR (54), 3.vii.1999, 5 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt., J. Bryja det. (JBSC, PKPC); 30.vi.2004, 1 ♂ 1 ♀, 28.vii.2005, 2 ♂♂ 6 ♀♀, I. Malenovský lgt., 12.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Hostětín (70), 10.viii.1970, 1 ♂, L. Pospíšilová lgt. (MMBC). Lipov, Pešunk (100), 27.vi.2008, 12 ♂♂ 5 ♀♀, Z. Malinka lgt. (ZMOC, 1 ♀ NMPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 82 ♂♂ 56 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Korytná (115), 23.vii.1951, 7 ♂♂ 3 ♀♀, J. L. Stehlík lgt. (MMBC). Strání, Obecnice hill, S slope (145), 2.vii.2001, 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov (173), 23.vii.1951, 5 ♂♂ 5 ♀♀, J. L. Stehlík lgt. (MMBC). Radějov, Žerotín NM (188), 4.–26.vi.2008, Mt, 9 ♂♂ 3 ♀♀, 26.vi.–14.vii.2008, Mt, 8 ♂♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Holý vrch hill (189), 4.vii.1977, 2 ♀♀, J. L. Stehlík lgt. (MMBC). Kněždub, Kněždubský háj forest (197), 17.vi.2000, 5 ♂♂ 4 ♀♀, 8.vii.2000, 2 ♀♀, P. Kment lgt., 28.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 22.vi.2001, 1 ♂, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 21 ♂♂ 7 ♀♀, P. Kment lgt. (PKPC); 2.–25.vi.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 23.vi.2004, 1 ♂ 1 ♀, 27.vii.2005, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 1 ♂ I. Malenovský lgt. (PKPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 6 ♂♂ 2 ♀♀ 1 L, J. L. Stehlík lgt. (MMBC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nová Lhota, Fojtické Mlýny (245), 7.vii.1980, 1 ♂, L. Pospíšilová lgt. (MMBC). Strání, Záhumenice NM (266), 2.vii.2001, 3 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Quite frequent in xerothermic habitats in the southern part of the area; the findings near Hostětín and Nedašov in the northern part of the Bílé Karpaty are remarkable as they are situated on the northern limit of the species' distributional range. **General distribution:** North Mediterranean, extending to central Europe. **Biology and habitat:** On *Dorycnium* in xerothermic, open habitats, especially on calcium-rich soils (WACHMANN *et al.* 2004). **Red List status:** Vulnerable.

Comments. In the Czech Republic known only from Moravia, where it is confined to the Pannonicum and the Bílé Karpaty Mts. (see MALENOVSKÝ *et al.* 2011).

Heterocordylus (Bothrocranium) erythrophthalmus erythrophthalmus (Hahn, 1833)

Material examined. Radějov, Žerotín NM (188), 26.vi.–14.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♂ 3 ♀♀, J. L. Stehlík & L. Pospíšilová lgt. (MMBC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 2.–25.vi.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek

lgt. (NMPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, towards Suchovské Mlýny, Velička river valley (233), 29.vi.2001, on *Rhamnus cathartica*, 1 ♂ 3 ♀♀, P. Kment lgt., J. Bryja det. (JBSC, PKPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 7 ♂♂ 2 ♀♀, P. Lauterer lgt. (MMBC). Strání, Záhumenice NM (266), 2.vii.2001, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, confined to xerothermic sites in the southern part of the area. **General distribution:** European, extending to Transcaucasia. **Biology and habitat:** Zoophytophagous. On *Rhamnus cathartica*, rarely on *Prunus spinosa*, in sunny habitats, usually along forest margins and hedges (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. A thermophilous species, poorly documented in Moravia, with only five published localities (MALENOVSKÝ *et al.* 2011).

Heterocordylus (Heterocordylus) cytisi Josifov, 1958

Material examined. Radějov, Žerotín NM (188), 14.v.–4.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♂, J. L. Stehlík lgt. (MMBC). Kněždub, Čertoryje NNR (202), 19.vi.1980, 1 ♂ 1 ♀, P. Lauterer lgt. (MMBC). Javorník, loampit (235), 24.v.2002, 5 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (JBSC, PKPC). Javorník, SW slopes of Háj hill (238), 19.vi.1980, 4 ♂♂, P. Lauterer lgt. (MMBC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 2 ♂♂ 1 ♀, P. Lauterer lgt., 6 ♂♂ 4 ♀♀, J. L. Stehlík lgt. (MMBC). Nová Lhota, Fojtické Mlýny (245), 7.vii.1980, 2 ♂♂, P. Lauterer lgt. (MMBC). Javorník, Výzkum hill (258), 10.vi.1982, 2 ♀♀, P. Lauterer & J. L. Stehlík lgt. (MMBC). Javorník, Machová NR (259), 24.v.–15.vi.2010, Mt, 3 ♂♂, 15.vi.–13.vii.2010, Mt, 1 ♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC).

Additional material examined. MORAVIA: Malhostovice, Malhostovická pecka NM (N 49°19'33.09" E 16°29'42.35"; 6664), dry grassland on limestone rock, 28.v.1998, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Kobylí (7067), 8.vi.1942, 1 ♂, Dr. Hoffer lgt., L. Hoberlandt det. as *H. leptocerus* (NMPC). Mikulov, Svatý kopeček NR (N 48°48'25" E 16°38'50"; 7165), steppe on limestone, 4.vi.2001, 2 ♀♀ (1 ♀ freshly hatched), P. Kment lgt., J. Bryja det. as *H. genistae* (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, restricted to xerothermic sites in the southern part of the area. **General distribution:** Balkan-Pannonian, extending to Ukraine. **Biology and habitat:** On *Chamaecytisus* (= *Cytisus*) *supinus* (JOSIFOV 1958, 1963; GÖLLNER-SCHIEDING & ARNOLD 1988), associated with xerothermic grasslands in Moravia. **Red List status:** Not evaluated; a candidate species for a future edition of the national Red List.

Comments. The species was described by JOSIFOV (1958) based on specimens from the slopes of Belasitsa Mt. near Petrich in south-western Bulgaria, where it was repeatedly collected also in the subsequent years (JOSIFOV 1960, 1963, 1999; GÖLLNER-SCHIEDING & ARNOLD 1988). KERZHNER (1964) listed it from western Ukraine without further details; according to ROSHKO (1976), it is a common species in the south-western foothills of the Transcarpathian Ukraine, facing the Pannonicum. JOSIFOV (1999: 61) mentioned that “it was also found in the Crimean Peninsula” without precisising the source of this information. However, PUTSHKOV & PUTSHKOV (1996) did not list *H. cytisi* from Crimea. GOGALA & GOGALA (1986) and GOGALA (2006) recorded it from several localities in Slovenia. Finally, JOSIFOV (1986) listed *H. cytisi* also from Macedonia, but without any exact locality (see PROTIĆ 1998). Here we provide the first confirmed records for central Europe and the Czech Republic. Specimens published as *Heterocordylus leptocerus* from

Kobyly by HOBERLANDT (1947) and as *H. genistae* from Svatý kopeček NR near Mikulov by BRYJA & KMENT (2006a), both in southern Moravia, were revised; they also belong to *H. cytisi*.

The distribution of the host plant, *Chamaecytisus supinus*, covers the Sub-Mediterranean zone of Europe from north-eastern Spain through southern France, northern Italy, and the Balkan Peninsula to northern parts of Asian Turkey, reaching as far in the north as to Verdun in north-eastern France, the eastern Alps along the Danube river up to Regensburg in Bavaria, Bohemia, Moravia, southern Poland, Slovakia, the Carpathians in Romania, and the westernmost Ukraine (SKALICKÁ 1995). This is a much wider area than the currently known distributional range of *H. cytisi*; further discoveries of *H. cytisi*, at least in the northern parts of the Balkan Peninsula and the Pannonicum, thus can be expected.

Heterocordylus cytisi is missing in the basic identification keys for the central European Heteroptera (e.g. WAGNER 1952, 1967). This is the main reason for why the species has remained overlooked so far, having been misidentified as either *H. genistae* (females) or *H. leptocerus* (males) previously. However, the males can be easily identified using the original description (JOSIFOV 1958), as well as the keys by KERZHNER (1964) and WAGNER (1974). For the identification of females, we recommend the shape of the squama covering the base of the ovipositor, which is short, in shape of an equilateral triangle in *H. genistae*, while it is distinctly elongated, in form of a narrow isosceles triangle in *H. cytisi* (see KERZHNER 1964).

Heterocordylus (Heterocordylus) genistae (Scopoli, 1763)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 6 ♂♂ 9 ♀♀, P. Kment & I. Malenovský lgt. (MHBC, MUBC, PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 16.vi.2002, 5 ♂♂ 2 ♀♀ 1 L, I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 30.vi.1999, 4 ♂♂ 7 ♀♀, M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 2 ♂♂ 4 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 3.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 3.vii.1999, 4 ♀♀, P. Kment & I. Malenovský lgt., 17.vi.2006, 1 ♂ 2 ♀♀, I. Malenovský lgt., 12.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 3 ♂♂ 7 ♀♀, L. Pospíšilová lgt. (MMBC). Brumov, Holý vrch hill (79), 14.vi.1971, 12 ♂♂ 21 ♀♀, L. Pospíšilová & J. L. Stehlík lgt. (MMBC). Lipov, Pešunk (100), 27.vi.2008, 1 ♂ 1 ♀, Z. Malinka lgt. (ZMOC). Korytná (115), 23.vii.1951, 1 ♀, J. L. Stehlík lgt. (MMBC). Horní Němčí, Drahy NR (117), 30.vi.2001, 3 ♂♂ 7 ♀♀, P. Kment & I. Malenovský lgt., 23.v.2002, 15 ♂♂ 11 ♀♀, P. Kment lgt. (PKPC). Horní Němčí, Vinohrádky (121), 23.v.2002, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Lesná hill (123), 23.vii.1951, 2 ♂♂ 3 ♀♀, J. L. Stehlík lgt. (MMBC). Komňa, Lom Rasová NM (128), on *Genista tinctoria*, 5.vii.2001, 3 ♂♂ 4 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Lopeník, U Zvonice NM (155), 27.vi.2004, 9 ♂♂ 13 ♀♀ (1 ♂ 2 ♀♀ freshly hatched), I. Malenovský lgt., 18.viii.2004, 1 ♀, P. Kment lgt., 24.vii.2005, 2 ♂♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Žitková (163), 11.vi.1999, 2 ♀♀, K. Hradil lgt. et det. (KHMC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 5 ♂♂ 7 ♀♀, P. Kment lgt. (PKPC). Petrov [as Pavlov u Radějova] (182), vi.1946, 1 ♀, Raušer (MMBC). Kněždub, Radějovka brook valley below Čertoryje (198), 22.vi.2001, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 22.vi.2001, 2 ♂♂ 1 ♀, P. Kment lgt., 27.vi.2002, 1 ♀, I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 12.v.–2.vi.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, meadow (227), 23.vi.2004, 1 ♂ 4 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 8 ♂♂ 13 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle

pasture (242), 29.vi.2001, 2 ♂♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 29.vi.2001, 1 ♀, P. Kment lgt., 23.vi.2004, 1 ♂, I. Malenovský lgt. (PKPC). Nová Lhota, Fojtické Mlýny (245), 7.vii.1980, 3 ♂♂ 6 ♀♀, L. Pospíšilová lgt. (MMBC). Javorník, Machová NR (259), 9.vii.1998, 1 ♂ 2 ♀♀, P. Kment lgt., J. Bryja det. (PKPC); 15.vi.–13.vii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 2.vii.2001, 2 ♂♂ 6 ♀♀, P. Kment & I. Malenovský lgt. (PKPC).

Additional material examined. MORAVIA: Moravia mer., Chřiby [Hills], 1.viii.1942, 2 ♂♂, Dr. Hoffer lgt., L. Hoberlandt det., as *H. leptocerus* (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common in xerothermic sites throughout the area. **General distribution:** European, extending to Transcaucasia.

Biology and habitat: Zoophytophagous. On *Genista* (especially *G. tinctoria*) and *Cytisus* (e.g. *C. scoparius*), in xerothermic habitats. Common (WACHMANN *et al.* 2004).

Red List status: –.

[*Heterocordylus (Heterocordylus) leptocerus* (Kirschbaum, 1856)]

Comments. Zoophytophagous. On *Cytisus scoparius*, as well as other species of *Cytisus* and *Genista*, inhabiting open to half-shaded habitats (WACHMANN *et al.* 2004). JOSIFOV (1958) found it in south-western Bulgaria on *Chamaecytisus supinus* together with *H. cytisi*. *Heterocordylus leptocerus* is known from Austria, Belarus, Bulgaria, Czech Republic, Denmark, France, Germany, Hungary, Italy, Macedonia, the Netherlands, Poland, Romania, Russia (South and Central European Territory), Serbia, Slovakia, Slovenia, Spain, Sweden, Ukraine, Asian part of Turkey, Georgia, and West Siberia (KERZHNER & JOSIFOV 1999, PROTIĆ 1998, VINOKUROV & GOLUB 2007). WACHMANN *et al.* (2004) considered it widespread and locally not rare in Germany, with a number of records decreasing from the south to the north, while being rare and scattered in Austria. For the Czech Republic, HOBERLANDT (1977b) listed *H. leptocerus* from both Bohemia and Moravia. The records from Bohemia were based on DALLA-TORRE (1878): the environs of Wies [demolished village near the border crossing Svatý Kříž – Waldsassen] (5940) and Schalda [not identified] near Cheb; DUDA (1884, 1886): cited as rare from the environs of Prag [= Praha]; and ROUBAL (1957): Vroutek (5846). However, all specimens in NMPC (harbouring Duda's collection) previously identified as *H. leptocerus* turned to belong to four different species after a revision; we cannot thus confirm a presence of *H. leptocerus* in Bohemia for the time being. For Moravia, *H. leptocerus* was recorded only by HOBERLANDT (1947) from Kobyli (7067) and the Chřiby Hills; the male from Kobyli, however, belongs to *H. cytisi* and the specimens from the Chřiby Hills have been re-identified as *H. genistae* (P. Kment revid.). As there is currently no verified record of *H. leptocerus* from Moravia, the species is to be excluded from the list of the Moravian fauna.

Heterocordylus (Heterocordylus) tibialis (Hahn, 1833)

Material examined. Horní Němčí, Drahy NR (117), 15.v.1998, 1 ♂, P. Kment lgt., J. Bryja det. (JBSC).

Additional material examined. MORAVIA: Bransouze, 2 km W, valley of Bransouzský potok brook (6660), on *Cytisus scoparius*, 2.vi.2005, 1 ♂ 4 ♀♀, I. Malenovský lgt. (PKPC). Havraníky, Havranické vřesoviště heathland (7161–62), 27.v.1999, 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Popice (7162), heathland, 27.–29.v.1997, 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, known only from one site in the southern part of the area. **General distribution:** European and Holomediterranean. **Biology and habitat:** Zoophytophagous. Predominantly on *Cytisus scoparius*, rarely on *Genista* species, preferring more humid habitats than *H. genistae*. Quite rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded only from Račic [= Račice] (6767) and Protivanov (6566–67) (SPITZNER 1892).

Heterocordylus (Heterocordylus) tumidicornis (Herrich-Schaeffer, 1835)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 3.–23.vi.2008, Mt, 3 ♂♂ 2 ♀♀, 23.vi.–16.vii.2008, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 1 ♂ 1 ♀, M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Královec – Ploščiny ridge (43), 4.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt., J. Bryja det. (JBSC). Nedašov, Kaňoury NM (55), 12.vii.2006, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Brumov, Holý vrch hill (79), 14.vi.1971, 1 ♂ 1 ♀, J. L. Stehlík lgt. (MMBC). Bylničky, Tarandové hill (80), 24.vi.1982, 3 ♀♀, P. Lauterer lgt. (MMBC). Korytná, Březí (113), 5.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR env. (118), 7.vii.1980, 1 ♀, P. Lauterer lgt. (MMBC). Lopeník (152), 8.vi.1999, 1 ♂ 1 ♀, K. Hradil lgt. et det. (KHMC). Radějov, Žerotín NM (188), 4.–26.vi.2008, Mt, 3 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♂ 4 ♀♀, J. L. Stehlík lgt. (MMBC). Kněždub, Radějovka brook valley below Čertoryje (198), 17.vi.2000, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 25.v.2000, 3 ♂♂, P. Kment & I. Malenovský lgt. (MHBC, PKPC); 18.vi.2000, 2 ♀♀, P. Kment lgt. (PKPC). Radějov, Mandát brook valley below Kútky NR (218), 26.vi.–15.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 1 ♂, I. Malenovský lgt. (PKPC); 2.–25.vi.2009, Mt, 3 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, towards Suchovské Mlýny, Velička river valley (233), 29.vi.2001, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Javorník, Výzkum hill (258), 10.vi.1982, 2 ♂♂ 1 ♀, J. Meduna & J. L. Stehlík lgt. (MMBC). Javorník, Machová NR (259), 28.v.–18.vi.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 4 ♂♂ 5 ♀♀, P. Lauterer, J. Meduna & J. L. Stehlík lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** West Eurosiberian, extending to Anatolia and Transcaucasia. **Biology and habitat:** Zoophytophagous. On *Prunus spinosa* on sunny margins of shrubberies. Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Heterotoma merioptera (Scopoli, 1763)

Published records. KMENT & BRYJA (2006): Radějov, Žerotín NM (188); Velká nad Veličkou, Zahrady pod Hájem NNR (225).

Material examined. Sudoměřice, Sudoměřický potok brook W of Staré hory hill (187), 12.vii.2006, 1 ♂, P. Chvojka lgt. (PKPC). Radějov, Žerotín NM (188), 26.vi.–14.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, confined to xerothermic localities in the southern part of the area. **General distribution:** North Mediterranean, extending to central Europe. **Biology and habitat:** Zoophytophagous. Euryecious, more thermophilous than *H. planicornis* (Pallas, 1772); in the Czech Republic mostly found in xerothermic habitats in central Bohemia and southern Moravia, not rare (reviewed in detail in KMENT & BRYJA 2006). **Red List status:** –.

***Hoplomachus thunbergii* (Fallén, 1807)**

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Bílé potoky NR (46, 47, 48), 30.vi.1999, 1 ♀, M. Horsák & P. Kment lgt., J. Bryja det. (PKPC). Nedašov, meadow E of Jalovcová stráň NR (59), 30.vi.2004, 1 ♂, I. Malenovský lgt. (PKPC). Brumov, Holý vrch hill (79), 14.vi.1971, 1 ♂ 1 ♀ 1 L, L. Pospíšilová lgt. (MMBC). Bylničky, Tarandové hill (80), 24.vi.1982, 1 ♂, P. Lauterer lgt. (MMBC). Strání, Dúbrava hill (150), 7.vii.1980, 1 ♂, L. Pospíšilová lgt. (MMBC). Radějov, Žerotín NM (188), 14.v.–4.vi.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 2.–25.vi.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 4 ♀♀, P. Lauterer & J. L. Stehlík lgt. (MMBC). Javorník, Výzkum hill (258), 10.vi.1982, 2 ♀♀, J. L. Stehlík lgt. (MMBC). Strání, Javorina NNR, meadow (270), 3.–23.vi.2009, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, quite rare. **General distribution:** West Eurosiberian, extending to Transcaucasia.

Biology and habitat: On *Hieracium pilosella*, rarely on other Asteraceae (*Senecio erucifolius*, *Leucanthemum vulgare*, *Hippocrepis* sp.), in xerothermic habitats on sandy or limestone substrates with low vegetation. Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. For Moravia listed by SPITZNER (1892) without exact data on locality. Later recorded from Hraničky (5667) and Plesnivec [Mt.] (5667) in the Rychlebské hory Mts. (ŠTYS 1956, 1959), Staříč (Kamenná NM, 6375) (ROHÁČOVÁ 1985), Moravský Krumlov (Křížová skála rock, 6963), Budkovice (Budkovické skály rocks, 6964) (BRYJA *et al.* 2002), Újezd u Brna (Špice NR, 6866), Kurdějov (Kamenný vrch hill, 7066) (MALENOVSKÝ *et al.* 2011), Krásná pod Lysou horou (Obidová NM, 6477) (ROHÁČOVÁ 2011), and Huslenky (Pasínek Losový, 6674) (ROHÁČOVÁ 2012).

***Horistus (Primihoristus) orientalis* (Gmelin, 1790)**

Material examined. Petrůvka, U Petrůvky NM (14), 3.–23.vi.2008, Mt, 2 ♂♂ 1 ♀, 23.vi.–16.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 1 ♀, M. Horsák & P. Kment lgt. (PKPC). Nedašov, Jalovcová stráň NR (54), 3.vii.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., 30.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Bylničky, Tarandové hill (80), 24.vi.1982, 1 ♀, P. Lauterer lgt. (MMBC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 4 ♂♂ 1 ♀, P. Kment & M. Omesová lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 30.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 29.v.–19.vi.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Vyškovecké Bošačky, meadow and orchard (180), 27.vi.2004, 2 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Jazevečí NNR (232), 19.vi.2000, 1 ♂, I. Malenovský lgt. (PKPC); 2.–25.vi.2009, Mt, 3 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 2 ♂♂, P. Kment & I. Malenovský lgt., 23.vi.2004, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 23.vi.2004, 1 ♂, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area.

General distribution: Holomediterranean, extending to central Europe. **Biology and habitat:** A polyphagous phytophage collected on Liliaceae, *Galium*, *Verbascum*, *Achillea*, *Senecio*, and *Bromus*. Euryecious, in xerothermic as well as humid, half-shaded habitats. Not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia so far recorded only from the environs of Brunn [= Brno] (6765–66, 6865–66), Napajedl [= Napajedla] (6871) (SPITZNER 1892, as *Lopus albomarginatus*), Pravlov (6964) (STEHLÍK & HOBERLANDT 1954, as *Capsodes*

lineolatus), Budkovice (6964; Budkovický les forest, 6963) (BRYJA *et al.* 2002), Syrovice (Bezourek, 6965), Hustopeče u Brna (Přední kopaniny, 7066), and Sedlec (Skalky, 7266) (MALENOVSKÝ *et al.* 2011).

***Icodema infuscata* (Fieber, 1861)**

(VU)

Material examined. Radějov, Žerotín NM (188), 14.v.–4.vi.2008, Mt, 2 ♂♂ (1 ♂ freshly hatched), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Additional material examined. MORAVIA: Moravský Krumlov, Svatý Florián (6963), 270–310 m a.s.l., 14.vi.1983, 9 ♀♀, P. Lauterer lgt. (MMBC). Pouzdřany (7065), 18.v.1968, 19 ♂♂ 11 ♀♀, L. Pospíšilová & J. L. Stehlík lgt. (MMBC). Klentnice, Kotelná hill (7165), 3 ♂♂ 1 ♀, L. Pospíšilová & J. L. Stehlík lgt. (MMBC). Klentnice – Perná (7165), 9.viii.1962, 17 ♂♂ 36 ♀♀ 6 L, P. Lauterer lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected with a Malaise trap at one xerothermic site close to the southern border of the area. **General distribution:** North Mediterranean, extending to central Europe. **Biology and habitat:** On *Quercus* spp. in xerothermic, sunny habitats. Very rare (WACHMANN *et al.* 2004). **Red List status:** Vulnerable.

Comments. The species is reaching its northern distribution limit on xerothermic localities in the Pannonicum of southern Moravia. So far it has been collected there only on seven sites, reviewed by MALENOVSKÝ *et al.* (2011). Some additional records based on a recently revised museum material are provided here.

***Isometopus intrusus* (Herrich-Schaeffer, 1835)**

Material examined. Radějov, Kútky NR (217), 26.vi.–15.vii.2008, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 18.vi.–9.vii.2007, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Additional material examined. MORAVIA: Brno – Nový Lískovec, Kamenný vrch hill (6865), abandoned orchard (*Prunus*, *Malus*, *Armeniaca*), 23.vi.2005, 1 L, P. Lauterer lgt. (PKPC). Lednice (7166), 15.vii.1971, 1 ♂, Z. Pecha lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only with Malaise traps at two sites in the southern part of the area. **General distribution:** European, extending to Anatolia and Iran. **Biology and habitat:** A zoophagous species living on stems of deciduous trees, especially *Tilia*, *Malus*, and *Fraxinus*, more rarely on *Alnus*, *Quercus*, *Pyrus*, *Prunus*, etc. Rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia known only from Brno (Žlutý kopec hill, 6865) (STEHLÍK 1958) and Lednice (Horní les floodplain forest, 7166) (KŘÍSTEK & DOBŠÍK 1985). Records from Bohemia were published in ŠTUSÁK & ŠTYS (1959).

***Leptopterna dolabrata* (Linnaeus, 1758)**

Published record. KMENT (2001), KMENT & MALENOVSKÝ (2008): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 3.–23.vi.2008, Mt, 4 ♂♂ 1 ♀ (ma), 23.vi.–16.vii.2008, Mt, 2 ♂♂ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 5 ♂♂ 2 ♀♀ (ma) 2 ♀♀ (br), M. Horsák & P. Kment lgt. (MUBC). Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 2 ♂♂ (ma), P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Javorůvky NR

(32), 2.vii.1999, 2 ♂♂ (ma), P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, U Rybníků (38), 2.vii.1999, 1 ♂ (ma), M. Horsák & P. Kment lgt. (PKPC). Poteč, Ploštiny NR (42), 4.vii.1999, 1 ♂ 2 ♀♀ (ma), P. Kment & I. Malenovský lgt., 1.vi.2002, 1 ♂ (ma), I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 30.vi.1999, 2 ♂♂ 1 ♀ (ma), M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 2 ♂♂ (ma) 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Hrušová dolina valley (53), 3.vii.1999, 2 ♂♂ (ma), P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráň NR (54), 3.vii.1999, 1 ♂ (ma) 1 ♀ (br), P. Kment & I. Malenovský lgt., 30.vi.2004, 1 ♂ (ma) 5 ♀♀ (br) (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 1 ♂ (ma) 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Nedašov, meadow E of Jalovcová stráň NR (59), 30.vi.2004, 15 ♂♂ 3 ♀♀ (ma) 17 ♀♀ (br), I. Malenovský lgt. (PKPC). Petrůvka, Kladenka brook valley (64), 23.vi.–16.vii.2008, Mt, 1 ♂ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Slavičín (69), 10.vii.1989, 2 ♀♀ (ma) 3 ♀♀ (br), I. Vavřínová lgt. (MMBC). Brumov, Kloboucká street (76), 30.vi.2004, 13 ♂♂ (ma) 1 ♀ (br), I. Malenovský lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Brumov, Holý vrch hill (79), 14.vi.1971, 2 ♂♂ 2 ♀♀ (ma) 2 ♀♀ (br), L. Pospíšilová lgt. (MMBC). Bylničky, Tarandové hill (80), 24.vi.1982, 1 ♀ (br), P. Lauterer lgt. (MMBC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 1 ♂ (ma) 2 ♀♀ (br), P. Kment & M. Omesová lgt. (PKPC). Bylnice, railway station environs (83), 1.vii.1999, 1 ♀ (br), P. Kment & M. Omesová lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 30.vi.2004, 1 ♂ (ma) 2 ♀♀ (br), I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 24.v.2009, 3 ♂♂ (ma) 2 ♀♀ (br), 11.vii.2009, 4 ♂♂ (ma) 3 ♀♀ (br), P. Baňar lgt. et det. (MMBC). Horní Němčí, Drahy NR (117), 30.vi.2001, 2 ♂♂ (ma) 8 ♀♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR env. (118), 7.vii.1980, 1 ♂ (ma) 3 ♀♀ (br), P. Lauterer lgt., L. Pospíšilová lgt. (MMBC). Horní Němčí, Lesná hill (123), 23.vii.1951, 1 ♀ (br), 24.vii.1980, 2 ♂♂ (ma), J. L. Stehlík lgt. (MMBC). Komňa, Lom Rasová NM (128), 5.vii.2001, 1 ♀ (ma), P. Kment & I. Malenovský lgt. (PKPC). Březová, spring fen ca. 600 m SE below Studený vrch hill (138), 5.vii.2001, 1 ♂ (ma), P. Kment & I. Malenovský lgt. (PKPC). Strání, Obecnice hill, at transmission tower (144), 2.vii.2001, 2 ♂♂ (ma) 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Strání, Obecnice hill, S slope (145), 2.vii.2001, 1 ♀ (sma), P. Kment lgt. (PKPC). Strání, Důbrava hill (150), 7.vii.1980, 1 ♂ (ma) 1 ♀ (br), L. Pospíšilová lgt. (MMBC). Lopeník, U Zvonice NM (155), 27.vi.2004, 2 ♂♂ 1 ♀ (ma) 2 ♀♀ (br), 24.vii.2005, 1 ♀ (br), I. Malenovský lgt. (PKPC). Lopeník, Mikulčín vrch hill (160), 17.vii.1964, 3 ♂♂ (ma), L. Pospíšilová lgt. (MMBC). Žitková, Hutě NR (164), 29.v.–19.vi.2007, Mt, 5 ♂♂ (ma), 19.vi.–11.vii.2007, Mt, 3 ♂♂ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 1 ♀ (ma), P. Kment lgt. (PKPC). Výškovec, Pod Hřibovnou NM (176), 28.vi.2004, 23 ♂♂ (ma) 11 ♀♀ (br), I. Malenovský lgt., 24.vii.2005, 4 ♀♀ (br), P. Kment lgt. (PKPC). Bošačky, cattle pasture (179), 27.vi.2004, 5 ♂♂ 2 ♀♀ (ma) 4 ♀♀ (br), I. Malenovský lgt. (PKPC). Výškovce Bošačky, meadow and orchard (180), 27.vi.2004, 2 ♂♂ 2 ♀♀ (ma), I. Malenovský lgt. (PKPC). Radějov, Žerotín NM (188), 4.–26.vi.2008, Mt, 1 ♂ (ma) 1 ♀ (br), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Holý vrch hill (189), 4.vii.1977, 3 ♂♂ (ma) 2 ♀♀ (br), L. Pospíšilová & Stehlík lgt. (MMBC). Kněždub, Kněždubský háj forest (197) and Radějovka brook valley (198), 17.vi.2000, 1 ♀ (ma), P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 22.vi.2001, 1 ♀ (br), P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 15.vi.–14.vii.2010, Mt, 2 ♂♂ (ma), P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, Výzkum hill, restored grassland (208), 25.v.2000, 62 ♂♂ 8 ♀♀ (ma) 31 ♀♀ (br), P. Kment & I. Malenovský lgt., 18.vi.2000, 2 ♂♂ (ma) 6 ♀♀ (br), I. Malenovský lgt., 22.vi.2001, 35 ♂♂ (ma) 34 ♀♀ (br), P. Kment & I. Malenovský lgt., 27.vi.2002, 2 ♂♂ (ma) 14 ♀♀ (br), I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 1 ♂ (ma) 1 ♀ (br), P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 19.vi.2000, 1 ♂ (ma), P. Kment & I. Malenovský lgt. (PKPC). Radějov, Kútky NR (217), 4.–26.vi.2008, Mt, 30 ♂♂ (ma), 26.vi.–15.vii.2008, Mt, 4 ♂♂ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou (220), no date, 1 ♀ (br), no collector (MMBC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 1 ♀ (br), P. Kment lgt. (PKPC). Suchovské Mlýny, sheep pasture (226), 23.vi.2004, 2 ♂♂ (ma) 1 ♀ (br), I. Malenovský lgt. (PKPC). Suchovské Mlýny, meadow (227), 23.vi.2004, 3 ♂♂ 1 ♀ (ma) 3 ♀♀ (br), I. Malenovský lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 23.vi.2004, 1 ♂ (ma) 1 ♀ (br), I. Malenovský lgt. (PKPC). Trnovský Mlýn, meadow (229), 23.vi.2004, 1 ♂ (ma) 2 ♀♀ (br), I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 2 ♂♂ (ma), I. Malenovský lgt. (PKPC); 2.–25.vi.2009, Mt, 1 ♂ (ma), 25.vi.–15.vii.2009, Mt, 2 ♂♂ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, loampit (235), 24.v.2002, 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 2 ♂♂ (ma) 2 ♀♀ (br), P. Lauterer, J. L. Stehlík & J. Meduna lgt. (MMBC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 2.–25.vi.2009, Mt, 10 ♂♂ (ma) 1 ♀ (br), 25.vi.–15.vii.2009, Mt, 3 ♂♂ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♂ (ma) 1 ♀ (ma) 1 ♀ (br), 23.vi.2004, 3 ♂♂ (ma) 1 ♀ (ma) 1 ♀ (br), I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 29.vi.2001, 12 ♂♂ (ma) 12 ♀♀ (br), P. Kment lgt., 24.v.2002, 6 ♂♂ (ma), P. Kment & I. Malenovský lgt., 23.vi.2004, 40 ♂♂ (ma) 65 ♀♀ (br), I.

True bugs (Hemiptera: Heteroptera)

Malenovský lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 15.vi.–13.vii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Výzkum hill (258), 10.vi.1982, 1 ♀ (ma), J. L. Stehlík lgt. (MMBC). Nová Lhota, Fojtické Mlýny (245), 24.vii.1980, 1 ♂ (ma), L. Pospíšilová lgt. (MMBC). Javorník, Machová NR (259), 9.vii.1998, 1 ♂ (ma), P. Kment lgt., J. Bryja det. (PKPC); 28.v.–18.vi.2007, Mt, 9 ♂♂ (ma), 18.vi.–9.vii.2007, Mt, 2 ♂♂ (ma), P. Chvojka, J. Ježek & J. Macek lgt., 15.vi.–13.vii.2010, Mt, 2 ♂♂ (ma), P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 28.v.–18.vi.2007, Mt, 3 ♂♂ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 2.vii.2001, 12 ♂♂ (ma) 7 ♀♀ (br), 23.v.2002, 1 ♀ (ma), I. Malenovský lgt. (PKPC). Strání, Záhumenice NM (266), 2.vii.2001, 1 ♂ (ma) 5 ♀♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Strání, Javorina NNR, meadow (270), 4.vii.2001, 2 ♂♂ (ma) 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC); 3.–23.vi.2009, Mt, 1 ♂ (ma), 23.vi.–15.vii.2009, Mt, 9 ♂♂ (ma), 15.vii.–6.viii.2009, Mt, 3 ♂♂ (ma) 1 ♀ (br), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Eurosiberian, introduced to North America. **Biology and habitat:** On Poaceae (*Phleum*, *Alopecurus*, *Holcus*, *Dactylis*). Euryecious, in open to half-shaded, humid to dry, usually eutrophic grassland. Very common (WACHMANN *et al.* 2004). **Red List status:** –.

Liocoris tripustulatus (Fabricius, 1781)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Poteč, Ploštiny NR (42), 17.viii.2006, 2 ♂♂ 3 ♀♀, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55), 16.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Sidonie, Sidonie NR (87), 7.iv.–5.v.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Boršice u Blatnice, Boršický potok brook valley (105), 16.viii.1984, 2 ♀♀, J. L. Stehlík lgt. (MMBC). Korytná, Břeží (113), 5.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, between village and Drahy NR (114), 13.viii.2001, 1 ♀, P. Kment lgt. (PKPC). Komňa, Nový Dvůr (129), 21.viii.1984, 1 ♀, P. Raus lgt. (MMBC). Strání, Obecnice hill, at transmission tower (144), 23.v.2002, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♂, 8.viii.2007, 1 ♀, 22.ix.2007, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Kněždubský háj forest (197) and Radějovka brook valley (198), 17.vi.2000, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 8.vii.2000, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Tvarožná Lhota, valley of Járkovec brook (201), 17.viii.2000, sweeping of *Urtica* sp., 1 ♀, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 14.vii.–12.viii.2010, Mt, 2 ♂♂ 4 ♀♀, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, village (206), 19.vi.2000, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Hrubá Vrbka, village (212), 9.–12.vii.2009, 2 ♀♀, Z. Malinka lgt. (ZMOC). Radějov, Kútky NR (217), 15.vii.–5.viii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Mandát brook valley below Kútky NR (218), 26.vi.–15.vii.2008, Mt, 1 ♀, 15.vii.–5.viii.2008, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 1 ♂, I. Malenovský lgt., 10.ix.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Javorník, loampit (235), 24.v.2002, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Javorník, village (239), 8.viii.2001, 1 ♀, P. Kment lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 15.vii.–4.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 7.iv.–12.v.2009, Mt, 1 ♀, 12.v.–3.vi.2009, Mt, 1 ♂, 5.–24.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 13.vii.–10.viii.2010, Mt, 2 ♂♂ 1 ♀, 10.viii.–7.ix.2010, Mt, 1 ♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 8.v.2000, 1 ♀, I. Malenovský lgt. (PKPC). Strání, Záhumenice NM (266), 9.vii.–12.viii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** West Eurosiberian, extending to the Near East, and Central Asiatic. **Biology and habitat:** On *Urtica* (*U. dioica*, *U. urens*). Euryecious, in sunny, open habitats as well as more humid places, such as forests and their margins, gardens and ruderal sites. Common (WACHMANN *et al.* 2004). **Red List status:** –.

***Lopus decolor* (Fallén, 1807)**

Published record. HOBERLANDT (1947): Javorina (942 m) [= Mt. Velká Javořina] (255).

Material examined. Nedašov, Jalovcová stráž NR (54), 28.vii.2005, 3 ♂♂ 2 ♀♀, I. Malenovský lgt., 12.vii.2006, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 3 ♂♂ 6 ♀♀, L. Pospíšilová & J. L. Stehlík lgt. (MMBC). Korytná (115), 23.vii.1951, 1 ♂ 1 ♀, J. L. Stehlík lgt. (MMBC). Horní Němčí, Lesná hill (123), 23.vii.1951, 6 ♂♂ 6 ♀♀, J. L. Stehlík lgt. (MMBC). Lopeník, U Zvonice NM (155), 24.vii.2005, 25 ♂♂ 26 ♀♀, I. Malenovský lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 24.vii.2005, 2 ♂♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♂, P. Kment lgt. (PKPC). Výškovec, Pod Hřibovňou NM (176), 19.viii.2004, 1 ♀, 24.vii.2005, 51 ♂♂ 107 ♀♀, P. Kment lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 27.vii.2005, 6 ♂♂ 18 ♀♀, I. Malenovský lgt. (PKPC). Trnovský Mlýn, meadow (229), 27.vii.2005, 1 ♂, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the northern and central parts of the area, rare in the southern part. **General distribution:** West Eurosiberian, introduced to North America and New Zealand. **Biology and habitat:** On Poaceae, especially *Agrostis* and *Avenella flexuosa*. In xerothermic habitats (often on sands), open as well as half-shaded (e.g. pine forests); preferring medium and higher altitudes. Not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded from the Oslava river valley near Březník (6863) (STEHLÍK 1944), Mohelno (6863), Bzenec (7069), Rohatec (7169), Hodonín (7168), the Chříby Hills, Mt. Velká Javořina (HOBERLANDT 1947), the Hrubý Jeseník Mts. (STEHLÍK 1952), Nové Vilémovice (5667), Žulová (5668) (ŠTYS 1959), Lednice (Horní les floodplain forest, 7166) (KŘÍSTEK & DOBŠÍK 1985), Baška (“Štěrkové náplavy řeky Ostravice”, 6376) (ROHÁČOVÁ 1994), the Poodří PLA: Bernartice nad Odrou (6373) (BRYJA & KMENT 2001), the Moravskoslezské Beskydy Mts.: Smrk NR (6476) (ROHÁČOVÁ 2001a), Kozlovice (Rybníky NR, 6475) (ROHÁČOVÁ 2003a), and Huslenky (Pasínek Losový, 6674) (ROHÁČOVÁ 2012).

***Lygocoris (Lygocoris) pabulinus* (Linnaeus, 1761)**

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 6.viii.1999, 4 ♂♂ 1 ♀, P. Kment lgt. (PKPC); 25.viii.–23.ix.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 1 ♀, M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 2.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt., 14.viii.2006, on *Corylus avellana*, 1 ♂, P. Kment lgt. (PKPC). Valašské Klobouky, Královec hill (33), 10.ix.1999, 1 ♂ 4 ♀♀, I. Malenovský & T. Výmyslický lgt. (PKPC). Valašské Klobouky, NW slope of Královec hill (35) and U Rybníků (38), 10.ix.1999, 1 ♀, I. Malenovský lgt. (PKPC). Návojná, Vrchy hill (45), 12.vii.2006, 1 ♂ 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Poteč, Ploščiny NR (42), 4.vii.1999, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt., 13.ix.1999, 1 ♂, I. Malenovský & T. Výmyslický lgt., 17.viii.2006, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Královec – Ploščiny ridge (43), 4.vii.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 23.viii.2002, 2 ♀♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 30.vi.1999, 3 ♂♂ 3 ♀♀, M. Horsák & P. Kment lgt., 9.ix.1999, 1 ♂ 1 ♀, I. Malenovský lgt., 14.viii.2006, 3 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 3 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Bylničky, Tarandové hill (80), 24.vi.1982, 1 ♂ 1 ♀, P. Lauterer lgt. (MMBC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 1 ♀, P. Kment & M. Omesová lgt. (PKPC). Sidonie (88), 8.ix.1981, 2 ♂♂, 3 ♀♀, L. Pospíšilová lgt. (MMBC). Svatý Štěpán, Chladný vrch NM (93), 4.vii.–11.viii.2010, Mt, 2 ♂♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Korytná, Březi (113), 5.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Uvezené NM (120), 10.vii.2009, 3 ♀♀, Z. Malinka lgt.

True bugs (Hemiptera: Heteroptera)

(ZMOC). Lopeník, Mikulčin vrch hill (160), 17.vii.1964, 1 ♂, L. Pospíšilová lgt. (MMBC); spruce forest margin, 24.vii.2005, 1 ♂, I. Malenovský lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♀, 8.viii.2007, 4 ♂♂, P. Kment lgt. (PKPC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♀, J. L. Stehlík lgt. (MMBC). Kněždub, Kněždubský háj forest (197) and Radějovka brook valley (198), 17.vi.2000, 1 ♂ 1 ♀, P. Kment lgt., J. Bryja det. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 17.viii.2000, 1 ♂, 22.vi.2001, 2 ♂♂, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 14.vii.–12.viii.2010, Mt, 1 ♂, 12.viii.–9.ix.2010, Mt, 2 ♂♂, P. Chvojka & J. Macek lgt. (NMPC). Radějov, Měsíční údolí valley (214), along road to Radějov, 16.viii.2009, 2 ♂♂, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 2 ♂♂ 5 ♀♀, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 4 ♂♂ 2 ♀♀, I. Malenovský lgt., 18.viii.2000, 3 ♀♀, P. Kment lgt. (PKPC); 2.–25.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Hryzlácké Mlýny (246), 22.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 3.–22.vi.2009, Mt, 2 ♂♂, 22.vi.–15.vii.2009, Mt, 3 ♂♂ 4 ♀♀, 5.–24.viii.2009, Mt, 2 ♂♂, 24.viii.–16.ix.2009, Mt, 4 ♂♂, 16.ix.–21.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 15.vi.–13.vii.2010, Mt, 6 ♂♂, 13.vii.–10.viii.2010, Mt, 3 ♂♂, 10.viii.–7.ix.2010, Mt, 1 ♂ 1 ♀, 7.ix.–21.x.2010, Mt, 2 ♂♂, P. Chvojka & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 15.vi.–9.vii.2010, Mt, 1 ♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 21.viii.2002, 1 ♀, P. Kment lgt. (PKPC); 23.vi.–15.vii.2009, Mt, 1 ♂, 15.vii.–6.viii.2009, Mt, 1 ♂, 6.–24.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Holarctic (except most of the Mediterranean). **Biology and habitat:** A polyphagous phytophage; predominantly on deciduous trees (Rosaceae and other families), but also on various herbs in humid habitats (e.g. *Urtica*, *Mentha*, *Filipendula*, *Atriplex*, *Solanum*, and *Rumex*), sometimes on cultivated crops. Very common (WACHMANN *et al.* 2004). **Red List status:** –.

Lygus gemellatus (Herrich-Schaeffer, 1835)

Material examined. Petrůvka, U Petrůvky NM (14), 6.viii.1999, 1 ♀, P. Kment lgt., J. Bryja det. (PKPC). Horní Němčí, between village and Drahy NR (114), on *Achillea* sp., 13.viii.2001, 2 ♀♀, P. Kment lgt. (PKPC). Horní Němčí, Vinohrádky (121), 13.viii.2001, 1 ♀, P. Kment lgt., 20.vii.2002, 3 ♂♂, I. Malenovský lgt. (PKPC). Bánov, Skalky hill (125), 21.viii.1984, 1 ♀, J. L. Stehlík lgt. (MMBC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 1 ♀, P. Kment lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 5.v.2000, 5 ♂♂ 4 ♀♀, I. Malenovský lgt., 25.v.2000, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., 18.vi.2000, 5 ♂♂ 1 ♀, I. Malenovský lgt., 8.vii.2000, 4 ♂♂ 1 ♀, P. Kment lgt., 27.vii.2000, 6 ♂♂ 7 ♀♀, I. Malenovský lgt., 16.viii.2000, 7 ♂♂ 6 ♀♀, P. Kment lgt., 28.vii.2001, 2 ♀♀, I. Malenovský lgt. (PKPC). Javorník, loampit (235), 24.v.2002, 1 ♂ (f. *adspersus*), P. Kment & I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 23.vi.2004, 1 ♂, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread, but common only in the southern part of the area. **General distribution:** Holopalaeartic, extending to northern India. **Biology and habitat:** On *Artemisia vulgaris*, *A. campestris*, and *A. absinthium*. In xerothermic localities, including dry grassland and ruderal sites. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Lygus pratensis (Linnaeus, 1758)

Published records. KMENT (2001), KMENT & MALENOVSKÝ (2008): Kněždub, Čertoryje NNR (202). KMENT & MALENOVSKÝ (2008): Strání, Záhumenice NM (266).

Material examined. Petrůvka, U Petrůvky NM (14), 13.v.–3.vi.2008, Mt, 2 ♀♀, 23.vi.–16.vii.2008, Mt, 2 ♂♂ 1 ♀, 16.vii.–4.viii.2008, Mt, 1 ♂ 2 ♀♀, 4.–25.viii.2008, Mt, 1 ♂, 25.viii.–23.ix.2008, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 19.v.1999, 2 ♀♀, P. Kment & I. Malenovský lgt., 30.vi.1999, 1 ♀, M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Brumovská street (30), 19.v.1999, 1 ♀, P. Kment & I. Malenovský lgt., 9.ix.1999, 2 ♀♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 22.v.1999, 1 ♀, P. Kment & I. Malenovský lgt., 1.x.2007, 1 ♂, O. Konvička lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 22.v.1999, 3 ♀♀, P. Kment & I. Malenovský lgt., J. Bryja det., 10.ix.1999, 1 ♂ 1 ♀, I. Malenovský & T. Vymyslický lgt., 1.x.2007, 1 ♀, O. Konvička lgt. (PKPC). Valašské Klobouky, Královec hill (33), 10.ix.1999, 1 ♂ 3 ♀♀, I. Malenovský & T. Vymyslický lgt., 17.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Na Nivách (34), 9.ix.1999, 2 ♂♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Valašské Klobouky, U Rybníků (38), 22.v.1999, 1 ♀, P. Kment lgt. (PKPC). Poteč, Ploštiny NR (42), 13.ix.1999, 2 ♀♀, I. Malenovský & T. Vymyslický lgt., 1.vi.2002, 2 ♂♂ 1 ♀, I. Malenovský lgt., 17.viii.2006, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Brumov, Uhlíčky (44), 1.ix.2004, 3 ♂♂, 5.x.2004, 2 ♂♂ (freshly hatched), 28.v.2005, 1 ♀, I. Malenovský lgt., 28.vii.2005, 22 ♂♂ 12 ♀♀, 4.ix.2005, 2 ♂♂ 5 ♀♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 9.ix.1999, 1 ♂, I. Malenovský lgt., 14.viii.2006, 1 ♂ 3 ♀♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 4 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 25.viii.2002, 2 ♂♂ 1 ♀, P. Kment lgt., 1.ix.2004, 1 ♀, 5.x.2004, 1 ♂, 16.vi.2006, 1 ♀, I. Malenovský lgt., 16.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54) and along road to Nedašov (52), 10.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt., 16.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Nedašov, Kaňúr hill (56), 20.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, meadow E of Jalovcová stráž NR (59), 30.vi.2004, 2 ♀♀, I. Malenovský lgt. (PKPC). Bojkovice (65), 5.viii.1962, 1 ♂ 1 ♀, P. Lauterer lgt. (MMBC). Štítná nad Vláří, south-exposed slopes N of the village (74), 10.vii.2006, 1 ♀, O. Konvička lgt. (NMPC). Brumov, Kloboucká street (76), 2.ix.2004, 1 ♂, I. Malenovský lgt., 28.vii.2005, 2 ♀♀, P. Kment lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Bylnice, Lazy NR and environs (82), 12.ix.1999, 4 ♂♂ 2 ♀♀, I. Malenovský & T. Vymyslický lgt., J. Bryja det. (PKPC). Bylnice, railway station environs (83), 11.ix.1999, 4 ♂♂ 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). 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True bugs (Hemiptera: Heteroptera)

Bošačky, meadow and orchard (180), 8.v.2004, 1 ♀, 19.viii.2004, 3 ♂♂ 2 ♀♀, 25.ix.2004, 2 ♂♂ 1 ♀, 24.vii.2005, 4 ♂♂, P. Kment lgt., 3.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 19.viii.2002, 2 ♀♀, P. Kment lgt. (PKPC); 26.vi.–14.vii.2008, Mt, 3 ♂♂ 3 ♀♀, 14.vii.–5.viii.2008, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Kněždubský háj forest (197), 8.vii.2000, 1 ♂ 2 ♀♀, 17.viii.2000, 2 ♀♀, P. Kment lgt. (PKPC); 20.ix.2001, 1 ♂ 1 ♀, M. Omesová lgt. (MUBC). Kněždub, Radějovka brook valley below Čertoryje (198), 17.vi.2000, 2 ♂♂, P. Kment lgt. (PKPC). Tvarožná Lhota, Lučina reservoir (199), 13.v.1998, 1 ♀, P. Kment lgt., J. Bryja det. (PKPC). Kněždub, Čertoryje NNR (202), 20.ix.2001, 2 ♂♂ 4 ♀♀, P. Kment lgt., 27.vi.2002, 2 ♀♀, I. Malenovský lgt., 17.viii.2002, 1 ♂ 1 ♀, P. Kment lgt. (PKPC); 14.ix.2004, 1 ♂, M. Horsák lgt. (MHBC). Kněždub, Čertoryje NNR, Radějovka brook (204), 25.v.–15.vi.2010, Mt, 1 ♂, 14.vii.–12.viii.2010, Mt, 1 ♂ 4 ♀♀, 9.ix.–22.x.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, between village and Výzkum hill (205), 8.vii.2000, several spec., P. Kment observ., 28.vii.2001, on *Ballota nigra*, 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 17.iv.2000, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt., 5.v.2000, 26 ♂♂ 61 ♀♀, I. Malenovský lgt., 25.v.2000, 14 ♂♂ 13 ♀♀, P. Kment & I. Malenovský lgt., 18.vi.2000, 34 ♂♂ 35 ♀♀, I. Malenovský lgt., 8.vii.2000, 26 ♂♂ 24 ♀♀, P. Kment lgt., 27.vii.2000, 90 ♂♂ 79 ♀♀, P. Kment & I. Malenovský lgt., 4.viii.2000, 14 ♂♂ 27 ♀♀, 16.viii.2000, 19 ♂♂ 21 ♀♀, P. Kment lgt., 1.x.2000, 9 ♂♂ 13 ♀♀, 22.x.2000, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., 2.v.2001, 4 ♂♂ 13 ♀♀, 22.vi.2001, 1 ♀, P. Kment lgt., 28.vii.2001, 15 ♂♂ 21 ♀♀, I. Malenovský lgt., 20.ix.2001, 1 ♂ 3 ♀♀, P. 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Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.v.1998, 1 ♂, P. Kment lgt., J. Bryja det., 19.vi.2000, 2 ♂♂ 1 ♀, P. Kment lgt., 24.vii.2000, 2 ♂♂, I. Malenovský lgt., 18.viii.2000, 2 ♀♀, P. Kment lgt., 9.–10.ix.2000, 4 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 8.iv.–12.v.2009, Mt, 1 ♀, 15.vii.–6.viii.2009, Mt, 1 ♂ 2 ♀♀, 24.viii.–14.ix.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 1.x.2004, 1 ♀, 27.vii.2005, 1 ♀, 1.x.2005, 1 ♂, I. Malenovský lgt. (PKPC). Suchovské Mlýny, meadow (227), 27.vii.2005, 1 ♂, I. Malenovský lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 16.viii.2004, 1 ♂ 3 ♀♀, P. Kment lgt., 1.x.2004, 5 ♀♀, I. Malenovský lgt. (PKPC). Trnovský Mlýn, meadow (229), 27.vii.2005, 2 ♂♂, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 6.v.2000, 3 ♀♀, 19.vi.2000, 18 ♂♂ 9 ♀♀, I. Malenovský lgt., 18.viii.2000, 2 ♂♂ 2 ♀♀, P. Kment lgt., 10.ix.2000, 7 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 15.vii.–5.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, village (239), 8.viii.2001, 1 ♀, P. Kment lgt. (PKPC). Javorník, Nad Vápenkou NM (236), 7.ix.2002, 1 ♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 6.iv.–12.v.2009, Mt, 1 ♂, 2.–25.vi.2009, Mt, 1 ♂, 14.ix.–22.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 8.viii.2001, 1 ♀, 23.ix.2001, 1 ♂, P. Kment lgt., 24.v.2002, 2 ♀♀, 17.vii.2002, 23 ♂♂ 24 ♀♀, 7.ix.2002, 3 ♂♂ 3 ♀♀, 2.ix.2004, 2 ♂♂ 3 ♀♀, 1.ix.2005, 1 ♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 8.viii.2001, 2 ♂♂ 1 ♀, 23.ix.2001, 6 ♂♂ 3 ♀♀, P. Kment lgt., 24.v.2002, 5 ♀♀, P. Kment & I. Malenovský lgt., 17.vii.2002, 48 ♂♂ 61 ♀♀, 7.ix.2002, 5 ♂♂ 7 ♀♀, I. Malenovský lgt. (PKPC). Nová Lhota, Fojtické Mlýny (245), 24.vii.1980, 1 ♀, P. Lauterer lgt. (MMBC). Nová Lhota, Hryzlácké Mlýny (246), 24.viii.–16.ix.2009, Mt, 2 ♀♀, 16.ix.–22.x.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 16.ix.–21.x.2009, Mt, 3 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Vápenky, Velička brook valley below Hubertova bouda hut (253), 21.viii.2002, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 7.iv.–5.v.2010, Mt, 1 ♂, 7.ix.–21.x.2010, Mt, 1 ♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 14.v.1998, 1 ♀, P. Kment lgt., J. Bryja det., 8.v.2000, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC); 12.iv.–8.v.2007, Mt, 2 ♂♂, 8.–28.v.2007, Mt, 1 ♂ 1 ♀, 18.vi.–9.vii.2007, Mt, 3 ♂♂ 2 ♀♀, 9.vii.–2.viii.2007, Mt, 8 ♂♂ 3 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt., 7.iv.–5.v.2010, Mt, 1 ♂, 15.vi.–13.vii.2010, Mt, 1 ♀, 13.vii.–10.viii.2010, Mt, 6 ♂♂ 2 ♀♀, 7.ix.–21.x.2010, Mt,

1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 18.vi.–9.vii.2007, Mt, 2 ♀♀, 9.vii.–2.viii.2007, Mt, 2 ♂♂ 3 ♀♀, 2.–22.viii.2007, 1 ♀, 22.viii.–10.ix.2007, 1 ♂, 10.ix.–3.x.2007, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 24.v.2001, 1 ♂, I. Malenovský lgt., 9.viii.2001, 7 ♀♀, P. Kment lgt., 21.ix.2001, 6 ♂♂ 10 ♀♀, 23.v.2002, 3 ♀♀, 20.vii.2002, 25 ♂♂ 10 ♀♀, 12.ix.2002, 1 ♂ 5 ♀♀, I. Malenovský lgt. (PKPC). Strání, Záhumenice NM (266), 9.viii.2001, 3 ♂♂ 3 ♀♀, P. Kment lgt., 21.ix.2001, 7 ♂♂ 9 ♀♀, I. Malenovský lgt., 23.v.2002, 1 ♂, P. Kment lgt., 20.vii.2002, 12 ♂♂ 13 ♀♀, 12.ix.2002, 12 ♂♂ 27 ♀♀, I. Malenovský lgt. (PKPC); 25.v.–15.vi.2010, Mt, 1 ♀, 9.vii.–12.viii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Strání, Nová hora NR (268), 16.v.1998, 2 ♀♀, P. Kment lgt., J. Bryja det. (PKPC). Strání, Javorina NNR (269, 270), 29.x.2011, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Strání, Javorina NNR, meadow (270), 21.viii.2002, 1 ♀, P. Kment lgt., 4.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 3.–23.vi.2009, Mt, 2 ♀♀, 23.vi.–15.vii.2009, Mt, 2 ♂♂ 9 ♀♀, 15.vii.–6.viii.2009, Mt, 3 ♂♂ 3 ♀♀, 24.viii.–17.ix.2009, Mt, 1 ♀, 17.ix.–21.x.2009, Mt, 2 ♂♂ 4 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Holopalaearctic (except south-eastern areas), extending to northern India. **Biology and habitat:** A polyphagous phytophage, with some preference for Asteraceae. Euryecious, in xerothermic as well as mesic habitats (including ruderal sites), more rarely in humid and shaded places. Very common (WACHMANN *et al.* 2004). **Red List status:** –.

Lygus rugulipennis Poppius, 1911

Published records. KMENT (2001): Kněždub, Čertoryje NNR (202). KMENT & MALENOVSKÝ (2008): Strání, Záhumenice NM (266).

Material examined. Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 1 ♀, M. Horsák & P. Kment lgt., 9.ix.1999, 1 ♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Brumovská street (30), 9.ix.1999, 2 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 2.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt., 10.ix.1999, 4 ♂♂ 2 ♀♀, I. Malenovský & T. Vymyslický lgt., 14.viii.2006, 1 ♀, P. Kment lgt., 1.x.2007, 2 ♂♂, O. Konvička lgt. (PKPC). Valašské Klobouky, Královec hill (33), 10.ix.1999, 1 ♂ 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Valašské Klobouky, Na Nivách (34), 9.ix.1999, 2 ♂♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Valašské Klobouky, town (37), 2.vii.1999, 1 ♂, P. Kment lgt. (PKPC). Valašské Klobouky, U Rybníků (38), 22.v.1999, 1 ♀, P. Kment lgt. (PKPC). Poteč, Ploštiny NR (42), 24.viii.2002, 1 ♂ 2 ♀♀, 17.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Valašské Klobouky, Královec – Ploštiny ridge (43), 4.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Brumov, Uhlíčky (44), 1.ix.2004, 1 ♂ 5 ♀♀, I. Malenovský lgt., 4.ix.2005, 3 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 23.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 9.ix.1999, 1 ♀, I. Malenovský lgt., 14.viii.2006, 2 ♂♂, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráň NR (54), 20.v.1999, 1 ♀, P. Kment & I. Malenovský lgt., 25.viii.2002, 1 ♂, P. Kment lgt., 5.x.2004, 1 ♂, I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 16.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55) and surrounding pastures (53), 3.vii.1999, 2 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Bojkovice (65), 5.viii.1962, 1 ♂ 2 ♀♀, P. Lauterer lgt. (MMBC). Slavičín (69), 10.vii.1989, 1 ♂, I. Vavřínová lgt. (MMBC). Brumov, Kloboucká street (76), 2.ix.2004, 1 ♂, I. Malenovský lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♀, 18.viii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Bylničky, Tarandové hill (80), 24.vi.1982, 1 ♂, P. Lauterer lgt. (MMBC). Bylnice, Lazy NR and environs (82), 12.ix.1999, 7 ♂♂ 5 ♀♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Bylnice, railway station environs (83), 1.vii.1999, 1 ♀, P. Kment & M. Omesová lgt., J. Bryja det.; 11.ix.1999, 11 ♂♂ 3 ♀♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 1.ix.2004, 1 ♂, 5.x.2004, 3 ♀♀, 6.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Sidonie, Vlárka brook valley (92), 8.ix.1981, 2 ♂♂ 1 ♀, L. Pospišilová lgt. (MMBC). Hluk, Kobylí hlava NM (101), 24.viii.2002, 2 ♀♀, I. Malenovský lgt. (PKPC). Hluk, Babí hora NM (102), 24.viii.2002, 1 ♀, I. Malenovský lgt. (PKPC). Slavkov, village (103), on *Tamarix parviflora*, 3.vii.2001, 1 ♀, P. Kment lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 24.v.2009, 2 ♂♂, 11.vii.2009, 6 ♂♂ 2 ♀♀, P. Baňář lgt. et det. (MMBC).

True bugs (Hemiptera: Heteroptera)

Boršice u Blatnice, Boršický potok brook valley (105), 16.viii.1984, 1 ♀, P. Lauterer lgt. (MMBC). Korytná, Březí (113), 5.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Suchov, Kazivec brook valley (116), 9.ix.1998, 3 ♂♂ 2 ♀♀, I. Malenovský & M. Omesová lgt. (PKPC). Horní Němčí, Drahy NR (117), 21.ix.2001, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Horní Němčí, Vinohrádky (121), 13.viii.2001, 2 ♂♂ 9 ♀♀, 21.ix.2001, 3 ♂♂, P. Kment lgt., 20.vii.2002, 5 ♂♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR env. (118), 7.vii.1980, 1 ♂, P. Lauterer lgt. (MMBC). Bánov, Skalky hill (125), 21.viii.1984, 1 ♂, P. Lauterer lgt. (MMBC). Komňa, Nový Dvůr (129), 21.viii.1984, 1 ♀, J. L. Stehlík lgt. (MMBC). Březová, Cestiska NM (136), 2.x.2007, 2 ♂♂ 2 ♀♀, O. Konvička lgt. (NMPC). Strání, Klanečnice brook valley between village and Žabka reservoir (143), 10.ix.1998, 3 ♂♂ 1 ♀, I. Malenovský & M. Omesová lgt. (PKPC). Strání, Obecnice hill, at transmission tower (144), 2.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt., 21.ix.2001, 2 ♀♀, I. Malenovský lgt. (PKPC). Strání, Obecnice hill, S slope (145), 2.vii.2001, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Lopeník, U Zvonice NM (155), 5.ix.2005, 3 ♀♀, P. Kment lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 25.ix.2004, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♂, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 1 ♂, 22.ix.2007, 1 ♀, P. Kment lgt. (PKPC). Vápenice, V Krátkých (170), 6.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Výskovec, Pod Hřibovňou NM (176), 28.vi.2004, 1 ♀, I. Malenovský lgt., 25.ix.2004, 3 ♂♂, 24.vii.2005, 1 ♀, P. Kment lgt. (PKPC). Výskovecké Bošačky, cattle pasture (179), 27.vi.2004, 3 ♂♂, I. Malenovský lgt., 25.ix.2004, 12 ♂♂ 12 ♀♀, P. Kment lgt., 21.v.2005, 1 ♂, 3.ix.2005, 2 ♂♂ 4 ♀♀, I. Malenovský lgt. (PKPC). Výskovecké Bošačky, meadow and orchard (180), 27.vi.2004, 1 ♀, I. Malenovský lgt., 19.viii.2004, 1 ♂, 25.ix.2004, 1 ♂ 2 ♀♀, P. Kment lgt., 3.ix.2005, 1 ♂, I. Malenovský lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 19.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Kněždubský háj forest (197), 17.vi.2000, 1 ♀, 8.vii.2000, 1 ♀, 17.viii.2000, 1 ♂, P. Kment lgt. (PKPC); 20.ix.2001, 1 ♀, M. Omesová lgt. (MUBC). Kněždub, Kněždubský háj forest (197) and Radějovka brook valley (198), 17.vi.2000, 2 ♀♀, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 20.ix.2001, 5 ♂♂ 3 ♀♀, P. Kment lgt., 27.vi.2002, 1 ♂ 1 ♀, I. Malenovský lgt., 4.x.2002, 2 ♂♂ 4 ♀♀, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 12.viii.–9.ix.2010, Mt, 1 ♂, 9.ix.–22.x.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, between village and Výzkum hill (205), 8.vii.2000, several spec., P. Kment observ. Malá Vrbka, Vojšické louky meadows (207), 17.iv.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 4.iii.–8.iv.2000, pt, 7 ♂♂ 1 ♀, P. Bezděčka lgt., 17.iv.2000, 6 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt., 5.v.2000, 12 ♂♂ 6 ♀♀, I. Malenovský lgt., 25.v.2000, 13 ♂♂ 10 ♀♀, P. Kment & I. Malenovský lgt., 18.vi.2000, 34 ♂♂ 31 ♀♀, I. Malenovský lgt., 8.vii.2000, 2 ♂♂ 2 ♀♀, P. Kment lgt., 27.vii.2000, 44 ♂♂ 17 ♀♀, P. Kment & I. Malenovský lgt., 4.viii.2000, 16 ♂♂ 7 ♀♀, 16.viii.2000, 28 ♂♂ 17 ♀♀, P. Kment lgt., 1.x.2000, 31 ♂♂ 33 ♀♀, 22.x.2000, 7 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt., 2.v.2001, 6 ♂♂ 1 ♀, 22.vi.2001, 1 ♂ 3 ♀♀, P. Kment lgt., 28.vii.2001, 3 ♂♂ 2 ♀♀, I. Malenovský lgt., 20.ix.2001, 4 ♂♂ 2 ♀♀, P. Kment lgt., 27.vi.2002, 1 ♀, I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 2 ♂♂, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 19.vi.2000, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., 8.vii.2000, several spec., P. Kment observ., 16.viii.2000, 3 ♂♂ 2 ♀♀, P. Kment lgt., 28.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 20.ix.2001, 1 ♂ 1 ♀, M. Omesová lgt. (MUBC). Hrubá Vrbka, village (212), 22.x.2000, under *Echium vulgare*, 1 ♀, P. Kment lgt. (PKPC); 27.–29.vi.2008, 1 ♂, Z. Malinka lgt. (ZMOC). Radějov, Měsíční údolí valley (214), 8.ix.1998, 1 ♀, I. Malenovský & M. Omesová lgt., 20.viii.2002, 2 ♂♂, P. Kment lgt. (PKPC). Velká nad Veličkou (220), 29.vi.1986, 1 ♂, J. Vilimová lgt. (JVPC). Velká nad Veličkou, village (222), at railway station, 29.vi.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 5 ♀♀, P. Kment lgt., 24.vii.2000, 1 ♀, I. Malenovský lgt., 18.viii.2000, 1 ♂, P. Kment lgt., 9.–10.ix.2000, 3 ♂♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 6.–24.viii.2009, Mt, 1 ♀, 14.ix.–20.x.2009, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 1.ix.2005, 2 ♀♀, I. Malenovský lgt. (PKPC). Suchovské Mlýny, meadow (227), 1.x.2004, 1 ♀, 27.vii.2005, 1 ♀, 1.ix.2005, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 16.viii.2004, ruderal vegetation, 1 ♀, P. Kment lgt., 1.x.2004, 1 ♀, 1.ix.2005, 1 ♂, I. Malenovský lgt. (PKPC). Trnovský Mlýn, meadow (229), 1.ix.2005, 2 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 6.v.2000, 1 ♂, 19.vi.2000, 7 ♂♂ 10 ♀♀, I. Malenovský lgt., 18.viii.2000, 1 ♂ 2 ♀♀, P. Kment lgt., 10.ix.2000, 4 ♂♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, towards Suchovské Mlýny, Velička river valley (233), 6.v.2000, 1 ♀, I. Malenovský lgt., 29.vi.2001, 1 ♀, P. Kment lgt. (PKPC). Javorník, Nad Vápenkou NM (236), 7.ix.2002, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, village (239), 8.viii.2001, 1 ♂, P. Kment lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 3 ♀♀, I. Malenovský lgt., 23.ix.2001, 1 ♀, P. Kment lgt., 17.vii.2002, 1 ♂, 7.ix.2002, 2 ♂♂

1 ♀, 2.ix.2004, 2 ♂♂ 8 ♀♀, 1.ix.2005, 3 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 29.vi.2001, 1 ♂ 1 ♀, 8.viii.2001, 1 ♀, 23.ix.2001, 5 ♂♂ 2 ♀♀, P. Kment lgt., 17.vii.2002, 3 ♂♂ 4 ♀♀, 7.ix.2002, 1 ♂, I. Malenovský lgt. (PKPC). Vápenky, Porážky NNR (247), 15.vii.1998, 1 ♀, 9.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt., J. Bryja det. (PKPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 10.viii.–7.ix.2010, Mt, 1 ♀ (NMPC). Javorník, Machová NR (259), 12.iv.–8.v.2007, Mt, 1 ♀, 8.–28.v.2007, Mt, 1 ♂, 2.–22.viii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt., 10.viii.–7.ix.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 9.viii.2001, 1 ♀, P. Kment lgt., 21.ix.2001, 1 ♂, 20.vii.2002, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Strání, Záhumenice NM (266), 9.viii.2001, 1 ♂ 1 ♀, P. Kment lgt., 21.ix.2001, 8 ♂♂, I. Malenovský lgt., 20.vii.2002, 2 ♂♂, P. Kment lgt., 12.ix.2002, 2 ♂♂ 4 ♀♀, I. Malenovský lgt. (PKPC). Strání, Nová hora NR (268), 16.v.1998, 1 ♂, P. Kment lgt., J. Bryja det. (PKPC). Strání, Javorina NNR, meadow (270), 4.vii.2001, 4 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt., 21.viii.2002, 2 ♂♂, P. Kment lgt. (PKPC); 3.–23.vi.2009, Mt, 3 ♀♀, 6.–24.viii.2009, Mt, 3 ♂♂ 4 ♀♀, 24.viii.–17.ix.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Holarctic (Eurosiberian and Nearctic). **Biology and habitat:** A widely polyphagous phytophage. Euryecious. Very common (WACHMANN *et al.* 2004).

Red List status: –.

Lygus wagneri Remane, 1955

Material examined. Valašské Klobouky, Brumovka brook valley (29), 19.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 22.v.1999, 4 ♂♂ 6 ♀♀, P. Kment & I. Malenovský lgt., J. Bryja revid., 10.ix.1999, 1 ♂ 1 ♀, I. Malenovský & T. Vymyslický lgt., J. Bryja revid. (PKPC). Valašské Klobouky, Královec hill (33), 10.ix.1999, 1 ♂ 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Valašské Klobouky, Na Nivách (34), 9.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt., J. Bryja det. (PKPC). Poteč, Ploštiny NR (42), 4.vii.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det., 13.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt., J. Bryja det., 17.viii.2006, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Nedašov, Hrušová dolina valley (53), 20.v.1999, 2 ♀♀, P. Kment & I. Malenovský lgt., 16.viii.2006, on *Mentha longifolia*, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 1.ix.2004, 1 ♂ 1 ♀, 16.vi.2006, 1 ♂, I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 20.v.1999, 1 ♂, P. Kment & I. Malenovský lgt., 16.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Slavičín (69), 10.vii.1989, 1 ♂ 1 ♀, I. Vavřínová lgt. (MMBC). Bylnice (78), 6.ix.1978, 1 ♀, B. Dobšík lgt. (MMBC). Nedašov, Pod Cigánem NM (91), 1.ix.2004, 1 ♀, 28.v.2005, 2 ♀♀, 6.ix.2005, 1 ♂, I. Malenovský lgt. (PKPC). Žitková (163), 11.vi.1999, 1 ♂, K. Hradil lgt. et det. (KHMC). Starý Hrozenkov, Skalka quarry (169), 22.ix.2007, 1 ♂, P. Kment lgt. (PKPC). Vápenice, V Krátkých (170), 6.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Radějov, Žerotín NM (188), 19.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Hrubá Vrbka, village (212), 9.–12.vii.2009, 1 ♂, Z. Malinka lgt. (NMPC). Trnovský Mlýn, sheep pasture (228), 1.x.2004, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 6.iv.–12.v.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Vápenky, Velička brook valley below Hubertova bouda hut (253), 21.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Vápenky / Strání, Mt. Velká Javořina (255), forest, 25.v.1999, 1 ♀, H. Hiršová lgt., J. Bryja det. (PKPC). Strání, Záhumenice NM (266), 5.–25.v.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 23.vi.–15.vii.2009, Mt, 1 ♀, 17.ix.–21.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread in higher altitudes of the northern and central parts of the area and in the environs of Mt. Velká Javořina; records from the xerothermic sites of Žerotín NM and Hrubá Vrbka in the southern part of the area are exceptional. **General distribution:** Eurosiberian. **Biology and habitat:** A polyphagous phytophage. Associated with herbs (e.g. *Solidago*, *Hieracium*, *Rumex*, and *Urtica*) in open habitats, regardless their humidity, also tolerant to shading. A boreo-montane species, preferring medium and higher altitudes. Not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Macrolophus glaucescens Fieber, 1858

Material examined. Bylničky, Tarandové hill (80), 24.vi.1982, 1 ♀, P. Lauterer lgt. (MMBC). Boršice u Blatnice, Boršický potok brook valley (105), 16.viii.1984, 1 ♀, P. Lauterer lgt. (MMBC).

Additional material examined. MORAVIA: Brno – Židenice, above cemetery (6865), 260–290 m a.s.l., 9.vi.1982, 1 ♀, J. L. Stehlik lgt. (MMBC). Hustopeče, margins of vineyards at the road to Kurdějov (7066), on *Echinops sphaerocephalus*, 15.vi.2007, 3 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, not collected in the course of the recent survey. **General distribution:** North Mediterranean, introduced to central Europe. **Biology and habitat:** On *Echinops sphaerocephalus* (WACHMANN *et al.* 2004). In xerothermic habitats, often ruderalized, mostly in warm lowlands. Not rare, but largely neglected (P. Kment, pers. observ.). **Red List status:** –.

Comments. In the Czech Republic published only from a few localities (STEHLÍK 1961, KMENT 2006). It is regarded as an alien species in the fauna of the Czech Republic, although its occurrence in the country, at least in Bohemia, dates back to 19th century (KMENT 2006).

Macrolophus pygmaeus (Rambur, 1839)

Material examined. Valašské Klobouky, Královec hill (33), on *Salvia glutinosa*, 17.viii.2006, 1 ♂ 3 ♀♀, P. Kment lgt. (PKPC); 17.viii.2009, on *Salvia glutinosa*, J. A. Sanchez lgt. et det. (JSAS). Poteč, Ploštiny NR (42), on *Salvia glutinosa*, 17.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, forest (47), on *Salvia glutinosa*, 14.viii.2006, 1 spec., P. Kment lgt. (PKPC). Komňa, Nový Dvůr (130), 6.vii.2001, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), on *Stachys sylvatica*, 22.vi.2001, 2 ♀♀, P. Kment lgt. (PKPC). Radějov, Mandát brook valley below Kútky NR (218), 14.v.–4.vi.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 12.v.–2.vi.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 12.iv.–9.v.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Javorina NNR, forest (269), forest margin, sweeping of undergrowth, on *Stachys sylvatica*, 3.vii.2001, 1 ♂ 4 ♀♀, M. Horsák & P. Kment lgt. (PKPC). Strání, Javorina NNR, meadow (270), 4.vii.2001, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 23.vi.–15.vii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area in forest undergrowth. **General distribution:** West Palaearctic. **Biology and habitat:** Zoophytophagous. Living on *Stachys sylvatica*, *Salvia glutinosa*, less frequently on other Lamiaceae, *Pulmonaria*, or other glandulous plants. In humid, shaded, as well as open and sunlit habitats. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Macrolophus rubi Woodroffe, 1957

Published records. HRADIL *et al.* (2008): Návojná (45), spruce forest below Vrchy hill; Valašské Klobouky, Bílé potoky NR, forest (47); Lopeník, Mikulčín vrch hill (160).

Material examined. Valašské Klobouky, Bílé potoky NR (46, 47, 48), 17.viii.2009, on *Rubus fruticosus* agg., J. A. Sanchez lgt. et det. (JSAS). Nedašov, Kaňoury NM (55), 18.viii.2009, on *Corylus avellana*, J. A. Sanchez lgt. et det. (JSAS). Petrůvka, Kladenka brook valley (64), 23.vi.–16.vii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Svatý Štěpán, Chladný vrch NM (93), 5.–24.v.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Žitková, Hutě NR (164), 19.vi.–11.vii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Javorník, Jazevčí NNR (232), 25.vi.–15.vii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 25.vi.–15.vii.2009, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 28.v.–18.vi.2007, Mt, 2 ♀♀,

18.vi.–9.vii.2007, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 18.vi.–9.vii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 22.vi.–15.vii.2009, Mt, 1 ♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, confined to forest undergrowth; rare, but possibly undersampled. **General distribution:** West Eurosiberian. **Biology and habitat:** Zoophytophagous. On *Rubus*, also on *Stachys sylvatica* (WACHMANN *et al.* 2004). Along forest margins and in undergrowth of natural deciduous as well as cultural spruce forests, mostly in medium and higher altitudes (264–1350 m). **Red List status:** –.

Comments. The distribution of *M. rubi* in the Czech Republic was reviewed by KMENT *et al.* (2003) and HRADIL *et al.* (2008). In specimens collected with Malaise traps and originally stored in ethanol, the diagnostic infuscation of the scutellar apex nearly disappeared after drying.

Macrotylus (Alloeonycha) horvathi (Reuter, 1876)

Material examined. Boršice u Blatnice, Boršický potok brook valley (105), 16.viii.1984, 1 ♀, P. Lauterer lgt. (MMBC). Horní Němčí, between village and Drahy NR (114), on *Ballota nigra*, 13.viii.2001, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, between village and Výzkum hill (205), on *Ballota nigra*, 28.vii.2001, 5 ♂♂ 1 ♀, P. Kment lgt. (JBSC, PKPC). Hrubá Vrbka, football ground (211), on *Ballota nigra*, 8.vii.2000, 3 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC). Javorník, village (239), bank of Velička river, on *Ballota nigra*, 8.viii.2001, 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, confined to warm sites of the southern part of the area. **General distribution:** North Mediterranean, extending to central Europe and Iran. **Biology and habitat:** On *Ballota nigra*, rarely on other Lamiaceae (WACHMANN *et al.* 2004). A thermophilous species, found mostly on the host plant in ruderal sites. Quite rare (P. Kment, pers. observ.). **Red List status:** –.

Comments. In Moravia found in the Chvojnice river valley (6863) (STEHLÍK 1944), on ruderal vegetation in Brno (6765–66, 6865–66) (RAUS 1990), Mikulov (Svatý kopeček NR, 7165) (BRYJA & KMENT 2006a), Újezd u Brna (Špice, 6866), Hustopeče u Brna (Přední kopaniny, 7066), Sedlec (Skalky, 7266), and Úvaly (Kameníky, 7266) (MALENOVSKÝ *et al.* 2011).

Macrotylus (Alloeonycha) paykullii (Fallén, 1807)

(NT)

Material examined. Brumov, Holý vrch hill (79), 14.vi.1971, 3 ♂♂ 1 ♀, L. Pospíšilová & J. L. Stehlík lgt. (MMBC). Bylničky, Tarandové hill (80), 24.vi.1982, 1 ♂ 3 ♀♀, P. Lauterer lgt. (MMBC). Vyškovské Bošacký, cattle pasture (179), 27.vi.2004, 1 ♂, I. Malenovský lgt., 24.vii.2005, 4 ♂♂ 1 ♀, P. Kment lgt., 3.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 1 ♂, P. Kment lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 16.viii.2004, on *Ononis spinosa*, 1 ♂, P. Kment lgt. (PKPC). Nová Lhota, Fojtické Mlýny (245), 24.vii.1980, 1 ♂ 1 ♀, L. Pospíšilová lgt. (MMBC). Javorník, Výzkum hill (258), 10.vi.1982, 1 ♀, J. L. Stehlík lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Quite rare, confined to dry pastures throughout the area. **General distribution:** West Palaearctic. **Biology and**

habitat: Possibly zoophytophagous. On *Ononis* (*O. spinosa*, *O. repens*) in various xerothermic, open habitats. Widespread but quite rare (WACHMANN *et al.* 2004). **Red List status:** Near-threatened.

Comments. Previous records from Moravia were provided by STEHLÍK (1962; 1971, misidentified as *M. atricapillus* – see KMENT *et al.* 2005) and ROHÁČOVÁ (1985, 2007a,b).

Macrotylus (Alloeonycha) solitarius (Meyer-Dür, 1843)

Published records. HRADIL *et al.* (2008): Návojná, undergrowth of spruce forest below Vrchy hill (45); Valašské Klobouky, Bílé potoky NM (47); Nedašov, Kaňoury NM (55) and small forest near Kaňoury NM [Lapač area] (58); Hrádek na Vlárské Dráze, towards Hostětín [= Rokytnice, Bukovina hill] (6973a4); Korytná (115); Horní Němčí, Lesná hill (123); Kněždub, Kněždubský háj forest, vegetation along road to Kněždub village (197); Tvarožná Lhota, valley of Járkovec brook below Čertoryje hill (201); Radějov, Holý vrch hill (189); Javorník, Machová NR (259).

Material examined. Popov (71), 6.viii.1980, 2 ♀♀, J. L. Stehlík lgt. (MMBC). Javorník, Machová NR (259), 9.vii.1998, 1 ♂, P. Kment lgt., J. Bryja det. (JBSC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 18.vi.–9.vii.2007, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 23.vi.–15.vii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, quite rare. **General distribution:** West Eurosiberian, extending to Transcaucasia.

Biology and habitat: On *Stachys*, especially *S. sylvatica*, but also on *S. recta*, *S. palustris*, and *S. alpina*; the development on *S. alpina* was confirmed within the survey in the Bílé Karpaty Mts. (HRADIL *et al.* 2008). Found mostly along forest margins, forest trails, and in clearings (HRADIL *et al.* 2008; P. Kment, pers. observ.). **Red List status:** –.

Comments. A previously overlooked species; its distribution in the Czech Republic was reviewed by HRADIL *et al.* (2008).

Macrotylus (Macrotylus) herrichi (Reuter, 1873)

Published record. KMENT (2001), KMENT & MALENOVSKÝ (2008): Kněždub, Čertoryje NNR (202).

Material examined. Nedašov, Jalovcová stráž NR (54), 16.vi.2006, 1 ♀, I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Brumov, Holý vrch hill (79), 14.vi.1971, 3 ♀♀, J. L. Stehlík lgt. (MMBC). Bylničky, Tarandové hill (80), 24.vi.1982, 4 ♂♂ 7 ♀♀, P. Lauterer lgt. (MMBC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 24.v.2009, 11 ♂♂ 9 ♀♀, 11.vii.2009, 8 ♂♂ 11 ♀♀, P. Baňar lgt. et det. (MMBC). Horní Němčí, Drahy NR (117), 30.vi.2001, 5 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Strání, Obecnice hill, S slope (146), 2.vii.2001, 1 ♀, P. Kment lgt. (PKPC). Žitková (163), 11.vi.1999, 1 ♀, K. Hradil lgt. et det. (KHMC). Žitková, Hutě NR (164), 9.–29.v.2007, Mt, 1 ♂, 19.vi.–11.vii.2007, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Petrov [as Pavlov u Radějova] (182), vi.1946, 1 ♂, Raušer (MMBC). Radějov, Žerotín NM (188), 14.v.–4.vi.2008, Mt, 1 ♂, 4.–26.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♂ 1 ♀, J. L. Stehlík lgt. (MMBC). Kněždub, Čertoryje NNR (202), 22.vi.2001, 2 ♂♂ 3 ♀♀, P. Kment lgt. (PKPC). Radějov, Měsíční údolí valley (214), 2.vi.1979, 1 ♀, P. Lauterer lgt. (MMBC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 1 ♂, P. Kment lgt. (PKPC). Suchovské Mlýny, meadow (227), 23.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 1 ♀, I. Malenovský lgt., 29.vi.2001, 1 ♀, P. Kment lgt. (PKPC); 2.–25.vi.2009, Mt, 2 ♂♂, 25.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, towards Suchovské Mlýny, Velička river valley (233), 29.vi.2001, 2 ♂♂, P. Kment lgt. (PKPC). Javorník, loampit (235), 24.v.2002, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 11

♀♀, P. Lauterer lgt., J. Meduna & J. L. Stehlík lgt. (MMBC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 2.–25.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 2 ♂♂ 2 ♀♀, 23.vi.2004, 2 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 23.vi.2004, 1 ♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Nová Lhota, Fojtické Mlýny (245), 24.vii.1980, 2 ♂♂ 1 ♀, L. Pospíšilová & J. L. Stehlík lgt. (MMBC). Javorník, Výzkum hill (258), 10.vi.1982, 4 ♀♀, P. Lauterer & J. L. Stehlík lgt. (MMBC). Javorník, Machová NR (259), 8.–28.v.2007, Mt, 1 ♂, 28.v.–18.vi.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common in xerothermic localities throughout the area. **General distribution:** South Eurosiberian (distributed from Spain to Anatolia and Kazakhstan). **Biology and habitat:** On *Salvia pratensis* and *S. verticillata* (WACHMANN *et al.* 2004). In open xerothermic habitats. Quite common (P. Kment, pers. observ.). **Red List status:** –.

Comments. Probably recorded for Moravia for the first time by ASSMANN (1854) from Altvater [= Mt. Praděd] (5969) in the Hrubý Jeseník Mts. and misidentified as “*Capsus bilineatus* Fallén” (see the Comments under *Orthotylus bilineatus* below). Further recorded from Uherčice (7065) and Moravany (6865) (STEHLÍK 1945a), Kobylí (7067) (STEHLÍK 1945a, HOBERLANDT 1947), Vápenná (5768) (ŠTYS 1956, 1959), Moravský Krumlov (Florián, 6963), Rokytná (Tábor, 6963), Budkovice (Budkovické skály rocks, 6964) (BRYJA *et al.* 2002), Mikulov (Svatý kopeček NR, 7165) (BRYJA & KMENT 2006a), and 11 more localities within the Pannonicum (MALENOVSKÝ *et al.* 2011).

***Macrotylus (Macrotylus) quadrilineatus* (Schrank, 1785) (EN) (Fig. 5)**

Published record. KMENT & BRYJA (2001): Poteč, Ploščiny NR (42).

Material examined. Valašské Klobouky, Královec hill (33), on *Salvia glutinosa*, 17.viii.2006, 5 ♂♂ 6 ♀♀, P. Kment lgt. (PKPC). Nedašova Lhota, Nedašovka brook valley (40), on *Salvia glutinosa*, 17.viii.2006, 2 ♂♂, P. Kment lgt. (PKPC). Poteč, Ploščiny NR (42), on *Salvia glutinosa*, 17.viii.2006, 3 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55), 16.viii.2006, on *Salvia glutinosa*, 2 ♂♂ (1 ♂ freshly hatched), 18.viii.2009, 6 ♂♂ 1 ♀ 2 L, P. Kment lgt. (PKPC).

Additional material examined. MORAVIA: Brusné (6671), Křídlo castle ruin (N 49°21'22.5" E 17°39'54.1"), beech forest undergrowth, on *Salvia glutinosa*, 500 m a.s.l., 25.ix.2010, 1 ♂ 2 ♀♀, P. Kment lgt. (NMPC). Rajnochovice (6672), Čerňava NR (N 49°22'45.1" E 17°47'10.4"), beech forest margin, on *Salvia glutinosa*, 600 m a.s.l., 25.ix.2010, 2 ♀♀ 2 L5, P. Kment lgt. (NMPC). Štítary (7061), 11.vii.1983, 1 ♀, H. Studníčková lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Collected only at forest margins and glades in the northern part of the area, locally not rare. **General distribution:** Ponto-Mediterranean, extending into the Alps and the Carpathians. **Biology and habitat:** Possibly zoophytophagous. On *Salvia glutinosa* (WACHMANN *et al.* 2004) on sunny forest edges and in clearings on its host plant (P. Kment, pers. observ.). **Red List status:** Endangered.

Comments. A species of mountain regions (the Alps, Carpathians, mountains in the Balkan Peninsula), in the Czech Republic so far known only from eastern Moravia (the Moravskoslezské Beskydy Mts. and northern parts of the Bílé Karpaty Mts.) (ROHÁČOVÁ 1997, KMENT & BRYJA 2001). We record it here also from the Hostýnské vrchy Hills in eastern Moravia and the valley of the Dyje river in south-western Moravia.

***Malacocoris chlorizans* (Panzer, 1794)**

Material examined. Valašské Klobouky, Na Nivách (34), 9.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt., J. Bryja det. (JBSC). Poteč, Ploščiny NR (42), 13.ix.1999, 4 ♀♀, I. Malenovský & T. Vymyslický lgt., 17.viii.2006, 2 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 23.viii.2002, 3 ♀♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 14.viii.2006, 1 ♂ 9 ♀♀, P. Kment lgt. (PKPC). Nedašov, village (51), 17.viii.2006, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 16.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55), 16.viii.2006, 4 ♂♂ 17 ♀♀, P. Kment lgt. (PKPC). Petrůvka, Kladenka brook valley (64), 23.ix.–29.x.2008, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 1 ♀, P. Kment & M. Omesová lgt., 12.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Horní Němčí, Drahy NR (117), on *Corylus avellana*, 13.viii.2001, 8 ♂♂ 2 ♀♀, 21.ix.2001, 1 ♂, P. Kment lgt. (PKPC). Strání, village (147), on *Tilia* sp., 9.viii.2001, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 1 ♂ 1 ♀, 22.ix.2007, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, village (206), on *Tilia* sp., 28.vii.2001, 1 ♂, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 1 ♀, I. Malenovský lgt., 18.viii.2000, 3 ♂♂ 6 ♀♀, P. Kment lgt. (MHBC, PKPC). Javorník, village (239), linden alley towards cemetery, on *Tilia* sp., 8.viii.2001, 7 ♂♂ 7 ♀♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 1 ♂ 2 ♀♀, 18.viii.2000, 1 ♂, P. Kment lgt., 9.–10.ix.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 13.vii.–10.viii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 9.ix.–22.x.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area.

General distribution: West Eurosiberian, extending to Transcaucasia, Iran and Mongolia; introduced to North America. **Biology and habitat:** Mostly zoophagous. Predominantly on *Corylus avellana*, more rarely on other deciduous trees (*Alnus*, *Ulmus*, *Salix*, *Populus*, *Tilia*, *Malus*, *Quercus*). On shrubs and trees at forest margins and hedges, preferring half-shaded places. Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded so far only from “Romža bei Prossnitz” [= Romže river at Prostějov] (6568) by SPITZNER (1892) and from Suchdol nad Odrou (6373) by BRYJA & KMENT (2001).

***Mecomma (Mecomma) ambulans ambulans* (Fallén, 1807)**

Material examined. Popov (71), 6.viii.1980, 1 ♂, J. L. Stehlík lgt. (MMBC). Horní Němčí, Lesná hill (123), 24.vii.1980, 1 ♀, J. L. Stehlík lgt. (MMBC). Lopeník, Míkulčín vrch hill (160), spruce forest margin, 24.vii.2005, 1 ♂, I. Malenovský lgt. (PKPC). Strání, Javorina NNR, forest (269), forest margin, sweeping of undergrowth, 3.vii.2001, 1 ♂, M. Horsák & P. Kment lgt. (PKPC). Strání, Javorina NNR, meadow (270), 4.vii.2001, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 23.vi.–15.vii.2009, Mt, 1 ♂, 15.vii.–6.viii.2009, Mt, 3 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, confined mostly to higher altitudes. **General distribution:** Eurosiberian, extending to Maghreb. **Biology and habitat:** Zoophytophagous. On herbaceous vegetation in more or less humid habitats, in undergrowth of both deciduous as well as coniferous forests, also in open habitats. A boreo-montane species, common in higher altitudes (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia, *M. ambulans ambulans* occurs mostly in mountains (the Hrubý Jeseník Mts. – STEHLÍK 1952; Rychlebské hory Mts. – ŠTYS 1959; Moravskoslezské

Beskydy Mts. – ROHÁČOVÁ 1990a, 2001a, 2003b, 2008; ROHÁČOVÁ & DROZD 2009) and inverse valleys (Macoča in the Moravský Kras PLA, 6666) (STEHLÍK 1948). Records from warm lowlands of southern Moravia (Lednice, Horní les floodplain forest, 7166 – KŘÍSTEK & DOBŠÍK 1985, KŘÍSTEK 1991) are quite exceptional.

Megacoelum beckeri (Fieber, 1870)

Material examined. Malá Vrbka, village (206), on *Tilia* sp., 16.viii.2000, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, village (222), 18.viii.2000, 2 ♀♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 17.ix.2004, 1 ♀, M. Horsák lgt. (PKPC). Javorník, Jazevčí NNR (232), 14.ix.–22.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only in warm sites of the southern part of the area. **General distribution:** European, extending to Maghreb and Transcaucasia. **Biology and habitat:** Zoophytophagous. On *Pinus sylvestris*, occasionally on other *Pinus* species, but also on introduced Cupressaceae (*Thuja*). Preferring warm habitats in lowlands. Widespread, quite rare (STEHLÍK 1998a, WACHMANN *et al.* 2004). **Red List status:** –.

Comments. The Moravian records of *M. beckeri* were reviewed by STEHLÍK (1973, 1998a).

Megaloceroea recticornis (Geoffroy, 1785)

Published records. KMENT (2001): Kněždub, Čertoryje NNR (202). KMENT & MALENOVSKÝ (2008): Nedašov, Jalovcová stráň NR (54).

Material examined. Petrůvka, U Petrůvky NM (14), 3.–23.vi.2008, Mt, 1 ♀, 23.vi.–16.vii.2008, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 7 ♂♂ 5 ♀♀, M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 22.v.1999, 8 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 2.vii.1999, 2 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Poteč, Ploščiny NR (42), 4.vii.1999, 6 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 30.vi.1999, 5 ♂♂ 1 ♀, M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 5 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráň NR (54), 3.vii.1999, 8 ♂♂ 4 ♀♀, P. Kment & I. Malenovský lgt., 30.vi.2004, 5 ♂♂ 13 ♀♀, 28.vii.2005, 4 ♀♀, I. Malenovský lgt., 12.vii.2006, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55) and surrounding pastures (53), 3.vii.1999, 5 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, meadow E of Jalovcová stráň NR (59), 30.vi.2004, 32 ♂♂ 41 ♀♀, I. Malenovský lgt. (PKPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 2 ♀♀, L. Pospíšilová lgt. (MMBC). Petrůvka, Kladenka brook valley (64), 3.–23.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Slavičín (69), 10.vii.1989, 1 ♀, I. Vavřínová lgt. (MMBC). Popov (71), 6.viii.1980, 1 ♂ 1 ♀, J. L. Stehlík lgt. (MMBC). Štítná nad Vláří, south-exposed slopes N of the village (74), 10.vii.2006, 1 ♀, O. Konvička lgt. (NMPC). Brumov, Kloboucká street (76), 30.vi.2004, 3 ♂♂ 18 ♀♀, I. Malenovský lgt., 28.vii.2005, 1 ♀, P. Kment lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Brumov, Holý vrch hill (79), 14.vi.1971, 2 ♂♂ L. Pospíšilová lgt. (MMBC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 5 ♂♂ 2 ♀♀, P. Kment & M. Omesová lgt. (PKPC). Bylnice, railway station environs (83), 1.vii.1999, 3 ♂♂ 1 ♀, P. Kment & M. Omesová lgt. (PKPC). Nedašov, Na Kopanicách, meadow (90), 3.vii.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 30.vi.2004, 22 ♂♂ 19 ♀♀, I. Malenovský lgt. (PKPC). Lipov, Pešunk (100), 27.vi.2008, 2 ♀♀, Z. Malinka lgt. (ZMOC). Korytná, Březí (113), 5.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 57 ♂♂ 70 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR env. (118), 7.vii.1980, 1 ♀, L. Pospíšilová lgt. (MMBC).

True bugs (Hemiptera: Heteroptera)

Horní Němčí, Lesná hill (123), 23.vii.1951, 2 ♂♂ 4 ♀♀, 24.vii.1980, 1 ♂, J. L. Stehlík lgt. (MMBC). Strání, Obecnice hill, at transmission tower (144), 2.vii.2001, 3 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Lopeník, U Zvonice NM (155), 27.vi.2004, 1 ♂, 24.vii.2005, 1 ♂ 4 ♀♀, I. Malenovský lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 24.vii.2005, 1 ♂, I. Malenovský lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 3 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, village (172), 6.vii.2001, 1 ♂, P. Kment lgt. (PKPC). Výškovec, Pod Hřibovňou NM (176), 28.vi.2004, 2 ♂♂, I. Malenovský lgt., 21.v.2005, 1 ♀, 24.vii.2005, 6 ♀♀, P. Kment lgt. (PKPC). Výškovecké Bošačky, cattle pasture (179), 27.vi.2004, 6 ♂♂ 6 ♀♀, I. Malenovský lgt., 24.vii.2005, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Výškovecké Bošačky, meadow and orchard (180), 27.vi.2004, 3 ♂♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Žerotín NM (188), 14.v.–4.vi.2008, Mt, 1 ♂ 1 ♀, 4.–26.vi.2008, Mt, 8 ♂♂ 8 ♀♀, 26.vi.–14.vii.2008, Mt, 3 ♂♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Holý vrch hill (189), 4.vii.1977, 5 ♂♂ 3 ♀♀, L. Pospíšilová & J. L. Stehlík lgt. (MMBC). Kněždub, Kněždubský háj forest (197) and Radějovka brook valley (198), 17.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 22.vi.2001, 26 ♂♂ 29 ♀♀, P. Kment lgt., 27.vi.2002, 18 ♀♀, I. Malenovský lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 15.vi.–14.vii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, Výzkum hill, restored grassland (208), 25.v.2000, 1 ♂, P. Kment lgt., 18.vi.2000, 4 ♂♂ 7 ♀♀, I. Malenovský lgt., 22.vi.2001, 20 ♂♂ 12 ♀♀, P. Kment lgt., 27.vi.2002, 9 ♂♂ 8 ♀♀, I. Malenovský lgt. (PKPC). Hrubá Vrbka, football ground (211), 19.vi.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Radějov, Kútky NR (217), 4.–26.vi.2008, Mt, 9 ♂♂ 3 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Mandát brook valley below Kútky NR (218), 4.–26.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 5 ♂♂ 3 ♀♀, P. Kment lgt. (PKPC); 2.–25.vi.2009, Mt, 5 ♂♂ 3 ♀♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 23.vi.2004, 3 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Suchovské Mlýny, meadow (227), 23.vi.2004, 4 ♂♂ 2 ♀♀, 27.vii.2005, 2 ♀♀, I. Malenovský lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 23.vi.2004, 1 ♂, I. Malenovský lgt., 16.viii.2004, 1 ♂, P. Kment lgt., 27.vii.2005, 2 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 15.vii.1998, 1 ♀, I. Malenovský & M. Omesová lgt., J. Bryja det., 19.vi.2000, 2 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC); 2.–25.vi.2009, Mt, 2 ♂♂, 25.vi.–15.vii.2009, Mt, 1 ♂, 15.vii.–5.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 2.–25.vi.2009, Mt, 7 ♂♂ 1 ♀, 25.vi.–15.vii.2009, Mt, 6 ♂♂ 3 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 21 ♂♂ 29 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 29.vi.2001, 20 ♂♂ 27 ♀♀, P. Kment lgt., 23.vi.2004, 28 ♂♂ 30 ♀♀, I. Malenovský lgt. (PKPC). Nová Lhota, Fojtické Mlýny (245), 24.vii.1980, 1 ♀, L. Pospíšilová lgt. (MMBC). Nová Lhota, Hryzlácké Mlýny (246), 3.–22.vi.2009, Mt, 1 ♀, 22.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 28.v.–18.vi.2007, Mt, 5 ♂♂, 18.vi.–9.vii.2007, Mt, 6 ♂♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 28.v.–18.vi.2007, Mt, 4 ♂♂, 18.vi.–9.vii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 2.vii.2001, 2 ♂♂ 5 ♀♀, I. Malenovský lgt. (PKPC). Strání, Záhumenice NM (266), 2.vii.2001, 3 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 15.vi.–9.vii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 4.vii.2001, 5 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 15.vii.–6.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Eurosiberian, extending to Maghreb, introduced to North America and New Zealand. **Biology and habitat:** On Poaceae (e.g. *Alopecurus*, *Arrhenatherum*, *Brachypodium*, *Festuca*, *Calamagrostis*, and *Hordeum*), in mesic to dry, eutrophic grasslands, open as well as shaded. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Megalocoleus molliculus (Fallén, 1807)

Material examined. Brumov, Uhličky (44), 4.ix.2005, 1 ♂, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráň NR (54), 3.vii.1999, 2 ♂♂, P. Kment lgt., J. Bryja det. (JBSC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, between village and Drahy NR (114), on *Achillea* sp.,

13.viii.2001, 3 ♀♀, P. Kment lgt. (PKPC). Horní Němčí, Vinohrádky (121), 20.vii.2002, 1 ♀, I. Malenovský lgt. (PKPC). Bánov, Skalky hill (125), 21.viii.1984, 1 ♂ 1 ♀, J. L. Stehlík lgt. (MMBC). Komňa, Nový Dvůr (129), 21.viii.1984, 1 ♂, P. Raus lgt. (MMBC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 1 ♂, P. Kment lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 16.viii.2004, 1 ♀, P. Kment lgt. (PKPC). Javorník, village (239), 8.viii.2001, 1 ♀, P. Kment lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 8.viii.2001, 1 ♂ 1 ♀, P. Kment lgt., J. Bryja det., 27.vii.2005, 2 ♂♂ 4 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 29.vi.2001, 1 ♂, P. Kment lgt., J. Bryja det. (PKPC). Strání, Záhumenice, cattle pasture (265), 9.viii.2001, on *Achillea* sp., 5 ♂♂ 4 ♀♀, P. Kment lgt. (JBSC, PKPC); 20.vii.2002, 2 ♂♂ 9 ♀♀, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area.

General distribution: Holopalaeartic; introduced to North America. **Biology and habitat:** Mostly on *Achillea millefolium*, rarely *Tanacetum vulgare* or other Asteraceae (e.g. *Artemisia*, *Matricaria*, and *Anthemis*). In open, dry to slightly humid habitats. Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded from Prossnitz [= Prostějov] (6568), Wischau [= Vyškov] (6767–68), Milkov (6367), Brünn [= Brno] (6765–66, 6865–66) (SPITZNER 1892, as *Macrocoleus molliculus*), Oslava river valley near Březník (6863) (STEHLÍK 1944, as *M. ochroleucus*), Dolní Lipová (5768) and Travná (5667) in the Rychlebské hory Mts. (ŠTYS 1959), Mohelno (6863) (ROUBAL 1968), on ruderal vegetation in Brno (6765–66, 6865–66) (RAUS 1990), Staříč (Kamenná NR, 6375) (ROHÁČOVÁ 1990b), the Poodří PLA: Suchdol nad Odrou (6373) and Odra – Malý les forest (6373) (BRYJA & KMENT 2001), Mikulov (Svatý kopeček NR, 7165) (BRYJA & KMENT 2002, as *M. confusus*; 2006a), Újezd u Brna (Špice NR, 6866), Křižanovice (Člupy, 6867), Budkovice (Budkovické skály rocks, 6964), and Kurdějov (Kamenný vrch hill, 7066) (MALENOVSKÝ *et al.* 2011).

Megalocoleus tanacetii (Fallén, 1807)

Material examined. Luhačovice, U Kamenného kříže crossroad (10), on *Tanacetum vulgare*, 6.viii.1999, 2 ♀♀, P. Kment lgt. (PKPC). Poteč, Ploščiny NR (42), 17.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Bánov, Skalky hill (125), 21.viii.1984, 8 ♂♂ 29 ♀♀, P. Lauterer, P. Raus & J. L. Stehlík lgt. (MMBC). Komňa, Nový Dvůr (129), 21.viii.1984, 1 ♂ 3 ♀♀, J. L. Stehlík lgt. (MMBC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 18.viii.2004, on *Tanacetum vulgare*, 1 ♂, P. Kment lgt. (PKPC). Výškovecké Bošacky, cattle pasture (179), 24.vii.2005, 4 ♂♂ 1 ♀, 19.viii.2004, 1 ♂ 1 ♀, P. Kment lgt., 3.ix.2005, 5 ♀♀, I. Malenovský lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 1 ♂, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 8.vii.2000, on *Tanacetum vulgare*, 2 ♂♂, 16.viii.2000, 2 ♀♀, P. Kment lgt. (PKPC). Nová Lhota, Fojtické Mlýny (245), 24.vii.1980, 1 ♂ 1 ♀, P. Lauterer lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, mostly in pastures and ruderal sites. **General distribution:** Eurosiberian and Central Asiatic. **Biology and habitat:** On *Tanacetum vulgare* in xerothermic, open habitats, as well as in humid, half-shaded ones. Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia known from scattered localities throughout the area (ŠTYS 1959, STEHLÍK 1961, RAUS 1990 – all as *Megalocoleus pilosus*; BRYJA & KMENT 2001, ROHÁČOVÁ 2008, ROHÁČOVÁ & DROZD 2009).

***Melanotrichus flavosparsus* (C. R. Sahlberg, 1841)**

Material examined. Petrůvka, U Petrůvky NM (14), 13.v.–3.vi.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Bylnice, railway station environs (83), 11.ix.1999, 1 ♂ 4 ♀♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Boršice u Blatnice, Boršický potok brook valley (105), 16.viii.1984, 2 ♂♂ 2 ♀♀, P. Lauterer & J. L. Stehlík lgt. (MMBC). Bánov, Skalky hill (125), 21.viii.1984, 6 ♀♀, P. Lauterer lgt. (MMBC). Malá Vrbka, Výzkum hill, restored grassland (208), 25.v.2000, 4 ♂♂ 1 ♀ (1 ♂ freshly hatched), P. Kment lgt., J. Bryja det., 16.viii.2000, 1 ♀, 22.vi.2001, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 2 ♂♂ 3 ♀♀, P. Kment lgt. (PKPC). Hrubá Vrbka, village (212), field margin, on *Chenopodium* sp., 8.vii.2005, 1 ♂, P. Kment lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 16.viii.2004, ruderal vegetation, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 14.ix.–22.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area in ruderal sites. **General distribution:** Holopalaearctic, introduced to North and South America. **Biology and habitat:** On *Chenopodium*, especially *Ch. album*, and *Atriplex*. In various nutrient-rich or saline habitats, dry as well as humid, e.g. salt marshes and meadows, ruderal vegetation, and field margins. Common (WACHMANN *et al.* 2004).

Red List status: –.

Comments. European authors mostly treat *Melanotrichus* Reuter, 1875 as a subgenus of *Orthotylus* Fieber, 1858 (e.g. KERZHNER & JOSIFOV 1999), while American heteropterists accept it as a separate genus (e.g. WHEELER *et al.* 2006).

***Mermillocerus schmidti* (Fieber, 1836)**

Material examined. Petrůvka, U Petrůvky NM (14), 3.–23.vi.2008, Mt, 1 ♂ 1 ♀, 23.vi.–16.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Petrůvka, Kladenska brook valley (64), 13.v.–3.vi.2008, Mt, 2 ♂♂ 1 ♀, 3.–23.vi.2008, Mt, 1 ♂ 3 ♀♀, 23.vi.–16.vii.2008, Mt, 2 ♂♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Svatý Štěpán, Chladný vrch NM (93), 24.v.–16.vi.2010, Mt, 1 ♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Kněždub, Radějovka brook valley below Čertoryje (198), 22.vi.2001, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 25.v.–15.vi.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 15.vi.–13.vii.2010, Mt, 4 ♂♂, P. Chvojka & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 25.v.–15.vi.2010, Mt, 1 ♂ 1 ♀, 15.vi.–9.vii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, mostly collected with Malaise traps. **General distribution:** European, extending to Transcaucasia, Iran and Turkmenistan. **Biology and habitat:** Zoophytophagous. On various deciduous trees, especially *Fraxinus excelsior*, but also on *Rhamnus*, *Ulmus*, *Corylus*, *Acer*, and in *Urtica* stands or on umbels of Apiaceae in the vicinity of trees. In floodplain and other humid forests. Widespread, rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded only from the Chvojnice river valley (6863) (STEHLÍK 1943, as *Calocoris schmidti*), Brno – Řečkovice (6765), Brno – Černovice (6865), Třebíč – Podklášteří (6760) (STEHLÍK 1948, as *Calocoris schmidti*), Lednice (Horní les floodplain forest, 7166) (KŘÍSTEK & DOBŠÍK 1985, KŘÍSTEK 1991, as *Calocoris schmidti*), Studénka (Oderský luh floodplain forest, 6274), Polanka nad Odrou (6275) (BRYJA & KMENT 2001), and Budkovice (6964, Budkovický les forest, 6963) (BRYJA *et al.* 2002).

***Miris striatus* (Linnaeus, 1758)**

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Štítná nad Vláří, south-exposed slopes N of the village (74), 22.v.2006, 1 ♂, O. Konvička lgt. (NMPC). Horní Němčí, Drahy NR (117), 23.v.2002, 1 ♀, P. Kment lgt. (PKPC). Lopeník (152), 8.vi.1999, 1 ♀, K. Hradil lgt. et det. (KHMC). Žitková, Hutě NR (164), 9.–29.v.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Radějov, Žerotín NM (188), 14.v.–4.vi.2008, Mt, 2 ♂♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Kútky NR (217), 4.–26.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.v.1998, 3 ♂♂, P. Kment lgt., J. Bryja det. (MHBC, PKPC). Javorník, Jazevčí NNR (232), 12.v.–2.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, loampit (235), 24.v.2002, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 2 ♀♀, J. L. Stehlík lgt. (MMBC). Javorník, Machová NR (259), 8.–28.v.2007, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt., 24.v.–15.vi.2010, Mt, 3 ♂♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 8.–28.v.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 23.v.2002, 1 ♀, P. Kment lgt. (PKPC); 25.v.–15.vi.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 3.–23.vi.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common in the southern part of the area, rare in the central and northern parts. **General distribution:** West Eurosiberian.

Biology and habitat: Zoophytophagous. On deciduous trees (*Crataegus*, *Prunus spinosa*, *Corylus*, *Betula*, *Alnus*, *Rhamnus*, *Salix*, *Malus*, etc.) at sunlit forest margins, hedges, in sparse scrub, and on solitary trees. Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia known from Záhoří bei Prossnitz [= part of Prostějov – Čechovice] (6568), Brunn [= Brno] (6765–66, 6865–66) (SPITZNER 1892), the Chvojnice river valley (6863) (STEHLÍK 1943, as *Pycnopterna striata*; 1948), Křižanovice u Slavkova (6867), Blansko (6665) (STEHLÍK 1948), Divoká Desná (5968–69) (STEHLÍK 1952), the environs of Bruntál (DOBŠÍK 1983), the Poodří PLA (6275) (PAVELKA 1990), and Staříč (Kamenná NM, 6375) (ROHÁČOVÁ 2007a,b).

***Monalocoris (Monalocoris) filicis* (Linnaeus, 1758)**

Material examined. Valašské Klobouky, U Rybníků (38), 2.vii.1999, 5 ♂♂, M. Horský & P. Kment lgt. (PKPC). Poteč, Ploščiny NR (42), 4.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt., 17.viii.2006, 5 ♀♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 23.viii.2002, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC); 13.–16.viii.2007, ypt, 1 ♂, J. Ježek lgt. (NMPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 9.ix.1999, 1 ♀, I. Malenovský lgt. (PKPC). Sidonie, Sidonie NR (87), 5.vii.–11.viii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Komňa, Nový Dvůr (130), 6.vii.2001, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Lopeník, Mikulčín vrch hill (160), spruce forest margin, 24.vii.2005, 3 ♂♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Žitková (163), 11.vi.1999, 2 ♂♂, K. Hradil lgt. et det. (KHMC). Javorník, Jazevčí NNR (232), 25.vi.–15.vii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 13.vii.–10.viii.2010, Mt, 3 ♀♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 25.v.–15.vi.2010, Mt, 1 ♀, 9.vii.–12.viii.2010, Mt, 2 ♀♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 4.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt., 21.viii.2002, 2 ♂♂ 3 ♀♀, P. Kment lgt. (PKPC); 15.vii.–6.viii.2009, Mt, 4 ♀♀, 6.–24.viii.2009, Mt, 1 ♂, 24.viii.–17.ix.2009, Mt, 5 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area in forest undergrowth. **General distribution:** Holopalaearctic. **Biology and habitat:** On Polypodiaceae, most often on *Dryopteris* and *Pteridium*. In undergrowth of deciduous, as

well as coniferous forests, also in humid open habitats (e.g. swamps and banks of streams). Common (WACHMANN *et al.* 2004). **Red List status:** –.

***Myrmecoris gracilis* (R. F. Sahlberg, 1848)**

Material examined. Nedašov, Jalovcová stráň NR (54), 3.vii.1999, 1 ♂ (mi) 1 L, P. Kment & I. Malenovský lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♂ (mi), P. Kment & I. Malenovský lgt. (PKPC). Bylničky, Tarandové hill (80), 24.vi.1982, 1 ♂ (br), P. Lauterer lgt. (MMBC). Horní Němčí, Drahy NR (117), 30.vi.2001, 2 ♂♂ 1 ♀ (mi), P. Kment & I. Malenovský lgt., 21.vii.2002, 1 ♀ (mi), I. Malenovský lgt. (PKPC). Kněždub, Kněždubský háj forest (197), 8.vii.2000, 1 ♂ (br), P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 1 ♀ (br), P. Kment lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 22.viii.–10.ix.2007, 1 ♀ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** Eurosiberian and Central Asiatic. **Biology and habitat:** Zoophytophagous or zoophagous. In xerothermic and mesic, open grassland. Rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded from Mohelno (6863), Pouzdřany (7065) (STEHLÍK 1946b), Hodonín (7168) (HOBERLANDT 1947), three localities in the Hrubý Jeseník Mts. (STEHLÍK 1952), Ostružná (ŠTYS 1956, 1959), Křižanovice (Člupy, 6867), and Sedlec (Skalky, 7266) (MALENOVSKÝ *et al.* 2011).

***Neolygus contaminatus* (Fallén, 1807)**

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Poteč, Ploštiny NR (42), 13.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt., J. Bryja det. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55) and surrounding pastures (53), 3.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Bylničky, Tarandové hill (80), 24.vi.1982, 1 ♂ & ♀♀, P. Lauterer lgt. (MMBC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 1 ♂, P. Kment lgt. (PKPC). Javorník, village (239), 8.viii.2001, 1 ♀, P. Kment lgt., J. Bryja det. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** Holarctic (Eurosiberian and Nearctic). **Biology and habitat:** On *Betula*, rarely on other deciduous trees (*Alnus*, *Salix*, *Corylus*, *Rhamnus*, *Sorbus*), preferring sunlit forest margins and solitary trees. Common (WACHMANN *et al.* 2004). **Red List status:** –.

***Neolygus viridis* (Fallén, 1807)**

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 23.vi.–16.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Javorůvky NR (32), 2.vii.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja revid. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 30.vi.1999, 1 ♀, M. Horský & P. Kment lgt., J. Bryja det. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, village (51), on *Elaeagnus angustifolia*, 17.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 2 ♀♀, P. Kment & I. Malenovský lgt., 16.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55) and surrounding pastures (53), 3.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 2 ♀♀ L. Pospíšilová lgt. (MMBC). Petrůvka, Kladenka brook valley (64), 23.vi.–16.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J.

Macek lgt. (NMPC). Popov (71), 6.viii.1980, 3 ♀♀, J. L. Stehlík lgt. (MMBC). Bylnice, Na Stráži (77), 11.vii.2006, 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Brumov, Holý vrch hill (79), 14.vi.1971, 3 ♂♂ 2 ♀♀, L. Pospíšilová lgt. & J. L. Stehlík lgt. (MMBC). Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR environs (118), 7.vii.1980, 1 ♂, L. Pospíšilová lgt. (MMBC). Horní Němčí, Uvezené NM (120), 10.vii.2009, 1 ♀, Z. Malinka lgt. (ZMOC). Komňa, Nový Dvůr (129), 21.viii.1984, 2 ♀♀, P. Lauterer & P. Raus lgt. (MMBC). Březová, Kalábová NM (137), 4.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Strání Obecnice hill, S slope (145), 2.vii.2001, 1 ♂, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 11.vii.1998, 1 ♀, P. Kment lgt., J. Bryja det. (JBSC); 26.vi.–14.vii.2008, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♀, J. L. Stehlík lgt. (MMBC). Kněždub, Kněždubský háj forest (197), 17.viii.2000, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 17.vi.2000, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Kněždubský háj forest (197) and Radějovka brook valley (198), 17.vi.2000, 1 ♀, P. Kment lgt., J. Bryja det. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 14.vii.–12.viii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 1 ♂, P. Kment lgt. (PKPC). Radějov, Měsíční údolí valley (214), 20.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Velká nad Veličkou, old cemetery (223), on *Thuja* sp., 19.vi.2000, 1 ♂ 3 ♀♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 2 ♂♂ 6 ♀♀, P. Kment lgt. (PKPC). Trnovský Mlýn, along road to Suchovské Mlýny (230), on *Corylus avellana*, 16.viii.2004, 1 ♂, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 5 ♀♀, I. Malenovský lgt. (PKPC); 25.vi.–15.vii.2009, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, village (239), linden alley towards cemetery, on *Tilia* sp., 8.viii.2001, 1 ♂ 3 ♀♀, P. Kment lgt. (PKPC). Javorník, Machová NR (259), 24.v.–15.vi.2010, Mt, 1 ♂, 15.vi.–13.vii.2010, Mt, 1 ♀, 13.vii.–10.viii.2010, Mt, 2 ♂♂, 10.viii.–7.ix.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 2.vii.2001, 3 ♂♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Strání, Javorina NNR, meadow (270), 15.vii.–6.viii.2009, Mt, 1 ♂, 6.–24.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Eurosiberian. **Biology and habitat:** Predominantly on *Tilia*, but also on other deciduous trees (*Alnus*, *Rhamnus*, *Salix*, *Betula*, *Acer*, and *Corylus*), preferring half-shaded to open, mostly humid habitats (forest margins, alluvia), but also on solitary trees. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Notostira elongata (Geoffroy, 1785)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Popov (71), 6.viii.1980, 1 ♀, J. L. Stehlík lgt. (MMBC). Horní Němčí, Drahy NR (117), 10.ix.2002, 4 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Strání, Obecnice hill, at transmission tower (144), 20.vii.2002, 2 ♂♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 5 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 15.vi.–14.vii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, Výzkum hill, restored grassland (208), 25.v.2000, 2 ♂♂, 18.vi.2000, 3 ♂♂ 2 ♀♀, I. Malenovský lgt., 8.vii.2000, 1 ♂ 1 ♀, P. Kment lgt., 27.vii.2000, 1 ♂, I. Malenovský lgt., 4.viii.2000, 1 ♂, 16.viii.2000, 7 ♂♂ 5 ♀♀, P. Kment lgt., 1.x.2000, 1 ♂ 1 ♀, 22.x.2000, 1 ♂, 28.vii.2001, 2 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt., 17.viii.2002, 3 ♂♂ 7 ♀♀, 4.x.2002, 6 ♂♂ 5 ♀♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 16.viii.2000, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 9.–10.ix.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Suchovské Mlýny, sheep pasture (226), 1.ix.2005, 1 ♂, I. Malenovský lgt. (PKPC). Suchovské Mlýny, meadow (227), 1.x.2004, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Trnovský Mlýn, meadow (229), 23.vi.2004, 1 ♀, 1.ix.2005, 2 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 18.viii.2000, 2 ♂♂ 3 ♀♀, P. Kment lgt. (PKPC). Javorník, loampit (235), 10.ix.1998, 1 ♀, I. Malenovský & M. Omesová lgt., 24.v.2002, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 3.v.2001, 2 ♂♂, P. Kment & I. Malenovský lgt., 29.vi.2001, 3 ♂♂, I. Malenovský lgt., 8.viii.2001, 1 ♂, P. Kment lgt., 17.vii.2002, 1 ♂ 1 ♀, 7.ix.2002, 2 ♂♂ 3 ♀♀, 23.vi.2004, 1 ♀, 2.ix.2004, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 7.ix.2002, 2 ♂♂, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common in the southern part of the area, very rare in the northern parts. **General distribution:** Eurosiberian, extending to Maghreb and Lebanon, and Central Asiatic. **Biology and habitat:** On Poaceae (especially *Agropyron*, *Festuca*, *Poa*, *Brachypodium*, *Holcus*, and *Agrostis*). Euryecious, although preferring open, sunny, eutrophic, mesic to dry grassland (road verges, ruderal sites, meadows, and fields). Common (WACHMANN *et al.* 2004). **Red List status:** –.

Notostira erratica (Linnaeus, 1758)

Published records. KMENT (2001), KMENT & MALENOVSKÝ (2008): Kněždub, Čertoryje NNR (202). KMENT & MALENOVSKÝ (2008): Strání, Záhumenice NM (266).

Material examined. Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 1 ♀, M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Brumovská street (30), 9.ix.1999, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 10.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Poteč, Ploščiny NR (42), 4.vii.1999, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt., 13.ix.1999, 5 ♂♂ 1 ♀, I. Malenovský & T. Vymyslický lgt., 24.viii.2002, 5 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC). Brumov, Uhličky (44), 1.ix.2004, 5 ♂♂ 1 ♀, 5.x.2004, 1 ♀, I. Malenovský lgt., 28.vii.2005, 1 ♂ 1 ♀, 4.ix.2005, 5 ♂♂ 5 ♀♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 30.vi.1999, 1 ♂, M. Horsák & P. Kment lgt. (PKPC). Nedašov, Jalovcová stráň NR (54), 25.viii.2002, 2 ♂♂ 1 ♀, P. Kment lgt., 30.vi.2004, 1 ♂, 1.ix.2004, 4 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráň NR (54) and along road to Nedašov (52), 10.ix.1999, 1 ♂ 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, meadow E of Jalovcová stráň NR (59), 30.vi.2004, 3 ♂♂ 4 ♀♀, 6.ix.2005, 1 ♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Popov (71), 6.viii.1980, 1 ♂, J. L. Stehlík lgt. (MMBC). Brumov, Kloboucká street (76), 30.vi.2004, 1 ♂, 5.x.2004, 1 ♂, I. Malenovský lgt. (PKPC). Bylnice (78), 12.ix.1978, 1 ♀, B. Dobšík lgt. (MMBC). Bylnice, Lazy NR and environs (82), 12.ix.1999, 1 ♂ 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Bylnice, railway station environs (83), 11.ix.1999, 4 ♂♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 1.ix.2004, 1 ♀, 6.ix.2005, 4 ♂♂ 4 ♀♀, I. Malenovský lgt. (PKPC). Hluk, Kobylí hlava NM (101), 24.viii.2002, 1 ♀, I. Malenovský lgt. (PKPC). Hluk, Babí hora NM (102), 24.viii.2002, 1 ♀, I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 11.vii.2009, 2 ♂♂, P. Baňaf lgt. et det. (MMBC). Korytná (115), 23.vii.1951, 1 ♂, J. L. Stehlík lgt. (MMBC). Korytná, Břeží (113), 5.vii.2001, 2 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Suchov, Kazivec brook valley (116), 9.ix.1998, 2 ♂♂ 6 ♀♀, I. Malenovský & M. Omesová lgt. (PKPC). Horní Němčí, Drahy NR (117), 10.ix.1998, 2 ♂♂, I. Malenovský & M. Omesová lgt., 30.vi.2001, 3 ♂♂ 6 ♀♀, P. Kment & I. Malenovský lgt., 13.viii.2001, 8 ♂♂ 2 ♀♀ 6 L5, 21.ix.2001, 2 ♂♂ 2 ♀♀, P. Kment lgt., 21.vii.2002, 22 ♂♂ 20 ♀♀, I. Malenovský lgt. (PKPC). Horní Němčí, Uvezené NM (120), 10.x.–5.xii.2002, 1 ♀, I. H. Tuf & J. Tufová lgt. (NMPC). Horní Němčí, Vinohrádky (121), 30.vi.2001, 1 ♂, I. Malenovský lgt., 13.viii.2001, 3 ♂♂, 21.ix.2001, 2 ♂♂ 1 ♀, P. Kment lgt., 20.vii.2002, 10 ♂♂ 7 ♀♀, 10.ix.2002, 12 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Komňa, Nový Dvůr (129), 21.viii.1984, 1 ♀, P. Raus lgt. (MMBC). Strání, Klanečnice brook valley between village and Žabka reservoir (143), 10.ix.1998, 4 ♂♂ 2 ♀♀, I. Malenovský & M. Omesová lgt. (PKPC). Strání, Obecnice hill, at transmission tower (144), 2.vii.2001, 4 ♂♂ 6 ♀♀, P. Kment & I. Malenovský lgt., 9.viii.2001, 1 ♂, P. Kment lgt., 21.ix.2001, 4 ♀♀, I. Malenovský lgt. (PKPC). Lopeník, U Zvonice NM (155), 25.ix.2004, 1 ♀, 24.vii.2005, 1 ♀, I. Malenovský lgt., 3.ix.2005, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 18.viii.2004, 1 ♂ 2 ♀♀, P. Kment lgt., 25.ix.2004, 1 ♂, 24.vii.2005, 1 ♀, I. Malenovský lgt., 3.ix.2005, 2 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♂, 8.viii.2007, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 2 ♂♂, P. Kment lgt. (PKPC). Vápenice, V Krátkých (170), 6.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Výškovce, Pod Hřibovňou NM (176), 25.ix.2004, 2 ♂♂, P. Kment lgt., 3.ix.2005, 2 ♂♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Výškovce Bošačky, cattle pasture (179), 25.ix.2004, 2 ♂♂ 8 ♀♀, P. Kment lgt., 3.ix.2005, 12 ♂♂ 16 ♀♀, I. Malenovský lgt. (PKPC). Výškovce Bošačky, meadow and orchard (180), 25.ix.2004, 2 ♂♂, 24.vii.2005, 1 ♀, P. Kment lgt., 3.ix.2005, 4 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Radějov, Žerotín NM (188), 19.viii.2002, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Radějov, Holý vrch hill (189), 4.vii.1977, 2 ♂♂, L. Pospíšilová & J. L. Stehlík lgt. (MMBC). Kněždub, Čertoryje NNR (202), 8.ix.2000, 3 ♂♂, I. Malenovský lgt., 20.ix.2001, 4 ♂♂, P. Kment lgt., 27.vi.2002, 1 ♀, I. Malenovský lgt.,

17.viii.2002, 2 ♂♂ 5 ♀♀, 4.x.2002, 2 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC). Malá Vrbka, Vojšické louky meadows (207), 17.iv.2000, 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 18.vi.2000, 1 ♂ 2 ♀♀, I. Malenovský lgt., 8.vii.2000, 1 ♂, P. Kment lgt., 27.vii.2000, 13 ♂♂ 10 ♀♀, I. Malenovský lgt., 4.viii.2000, 1 ♂ 2 ♀♀, 16.viii.2000, 11 ♂♂ 9 ♀♀, P. Kment lgt., 22.x.2000, 3 ♀♀, P. Kment & I. Malenovský lgt., 28.vii.2001, 1 ♂, 20.ix.2001, 18 ♂♂ 4 ♀♀, 17.viii.2002, 6 ♂♂ 10 ♀♀, 4.x.2002, 12 ♂♂ 14 ♀♀, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 16.viii.2000, 2 ♂♂, P. Kment lgt. (PKPC). Radějov, Měsíční údolí valley (214), 8.ix.1998, 1 ♀, I. Malenovský & M. Omesová lgt., J. Bryja det., 20.viii.2002, 2 ♀♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 2 ♂♂ 2 ♀♀, 18.viii.2000, 1 ♂ 1 ♀, P. Kment lgt., 9.–10.ix.2000, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Suchovské Mlýny, sheep pasture (226), 16.viii.2004, 1 ♂, 1.x.2004, 1 ♂, 1.ix.2005, 7 ♂♂ 4 ♀♀, I. Malenovský lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 16.viii.2004, 2 ♀♀, P. Kment lgt., 1.x.2004, 1 ♂, 1.ix.2005, 9 ♂♂ 9 ♀♀, I. Malenovský lgt. (PKPC). Trnovský Mlýn, meadow (229), 1.x.2004, 2 ♂♂, 27.vii.2005, 1 ♀, 1.ix.2005, 61 ♂♂ 45 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 1 ♂, I. Malenovský lgt., 18.viii.2000, 6 ♂♂ 6 ♀♀, P. Kment lgt., 10.ix.2000, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Nad Vápenkou NM (236), 7.ix.2002, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Javorník, village (239), 8.viii.2001, 1 ♀, P. Kment lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 3 ♂♂, I. Malenovský lgt., 8.viii.2001, 2 ♂♂, 23.ix.2001, 2 ♂♂ 5 ♀♀, P. Kment lgt., 17.vii.2002, 3 ♂♂ 1 ♀, 7.ix.2002, 33 ♂♂ 38 ♀♀, 2.ix.2004, 10 ♂♂ 12 ♀♀, 1.x.2004, 1 ♂ 1 ♀, 1.ix.2005, 7 ♂♂ 10 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 8.viii.2001, 3 ♂♂, 23.ix.2001, 1 ♂ 2 ♀♀, P. Kment lgt., 7.ix.2002, 1 ♂, 23.vi.2004, 1 ♂, I. Malenovský lgt. (PKPC). Vápenky, Velička brook valley below Hubertova bouda hut (253), 21.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Javorník, Machová NR (259), 9.vii.1998, 1 ♂, P. Kment lgt. (PKPC). Strání, Záhumenice, cattle pasture (265), 2.vii.2001, 1 ♂ 7 ♀♀, I. Malenovský lgt., 9.viii.2001, 1 ♂ 1 ♀, P. Kment lgt., 21.ix.2001, 6 ♂♂ 5 ♀♀, 20.vii.2002, 1 ♂ 4 ♀♀, I. Malenovský lgt. (PKPC). Strání, Záhumenice NM (266), 9.viii.2001, 1 ♂ 1 ♀, P. Kment lgt., 21.ix.2001, 4 ♂♂, 20.vii.2002, 2 ♂♂ 2 ♀♀, 12.ix.2002, 6 ♂♂ 4 ♀♀, I. Malenovský lgt. (PKPC). Strání, Javorina NNR, meadow (270), 4.vii.2001, 3 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt., 21.viii.2002, 7 ♂♂ 4 ♀♀, P. Kment lgt. (PKPC); 3.–23.vi.2009, Mt, 3 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: West Eurosiberian and Central Asiatic. **Biology and habitat:** On Poaceae. Euryecious in open, xerothermic grassland, as well as in humid meadows. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Omphalonotus quadriguttatus (Kirschbaum, 1856)

(VU)

Material examined. Velká nad Veličkou, Zahrady pod Hájem NNR (225), 2.–25.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC).

Additional material examined. MORAVIA: Řeznovice, Skala (6963), steppe on conglomerates, 220–270 m a.s.l., 1 ♀, J. L. Stehlík lgt. (MMBC). Nová Ves u Oslavan (6863), steppe vegetation on small hills *ca.* 300 m W and N of the village, 218–315 m a.s.l., 22.vi.1976, 1 ♀, P. Lauterer lgt. (MMBC). Viničné Šumice (6766), remnants of steppes, 370–400 m a.s.l., 6.ix.1977, 1 ♀ (freshly hatched), L. Pospíšilová lgt. (MMBC). Dolní Kounice (6964), rocky steppe, 200–250 m a.s.l., 11.vii.1984, 1 ♀, P. Raus lgt. (MMBC). Hostěradice, Paseka hill, towards Pustiny (7063d), steppe vegetation, 270–280 m a.s.l., 2.ix.1985, 1 ♂, J. L. Stehlík lgt. (MMBC). Havraníky, Havranické vřesoviště heathland (7161–62), 26.vii.1995, 1 ♂, A. Reiter lgt. (PKPC). Mikulov, Svätý kopeček NR (7165), 27.vi.1962, 1 ♂, P. Lauterer lgt. (MMBC). Milovice (7166), steppe and forest margin, 20.viii.1963, 1 ♂, P. Lauterer lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only once with a Malaise trap. **General distribution:** West Eurosiberian, extending to Transcaucasia. **Biology and habitat:** Probably zoophytophagous. An epigeic species inhabiting xerothermic sites on limestone and sandy ground. Rare (WACHMANN *et al.* 2004). **Red List status:** Vulnerable.

Comments. In Moravia recorded from Mohelno (6863), Nebovídy (6865) (STEHLÍK 1947), Ratiškovice (7068–69), Milotice (Náklo hill, 7068d), Ivančice – Letkovice (68–6964) (WYNIGER 2006a), Nová Ves u Oslavan (6863), Šakvice (7166), Mušov (N of the village, 70–7165), Vevčice (7062) (WYNIGER 2006a,b), and Letonice (Větrníky, 6867b) (WYNIGER 2006b). Here we present additional records from southern Moravia.

Oncotylus (Oncotylus) punctipes Reuter, 1875

Material examined. Slavičín (69), 10.vii.1989, 2 ♂♂ 5 ♀♀, I. Vavřínová lgt. (MMBC). Bylnice, railway station environs (83), 1.vii.1999, 7 ♂♂ 7 ♀♀, P. Kment & M. Omesová lgt., J. Bryja det. (PKPC). Horní Němčí, Lesná hill (123), 24.vii.1980, 6 ♂♂ 7 ♀♀, J. L. Stehlík lgt. (MMBC). Bánov, Skalky hill (125), 21.viii.1984, 7 ♂♂ 5 ♀♀, P. Raus & J. L. Stehlík lgt. (MMBC). Komňa, Nový Dvůr (129), 21.viii.1984, 1 ♀, J. L. Stehlík lgt. (MMBC). Vyškovecké Bošačky, cattle pasture (179), 27.vi.2004, 2 ♂♂ 2 ♀♀, I. Malenovský lgt., 24.vii.2005, 1 ♀, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), on *Tanacetum vulgare*, 19.vi.2000, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., 8.vii.2000, 1 ♀, P. Kment lgt. (PKPC). Strání, Javorina NNR, meadow (270), 3.–23.vi.2009, Mt, 3 ♂♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area in pastures and ruderal sites, quite rare. **General distribution:** Eurosiberian and Central Asiatic. **Biology and habitat:** On *Tanacetum vulgare*, mostly in open, sunlit habitats (common on sands), only rarely in shaded or humid ones. Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded only from Uherské Hradiště (6970), Popovice (6971) (HOBERLANDT 1947), the Rychlebské hory Mts.: Dolní Lipová (5768) (ŠTYS 1956, 1959) and Žulová (5668) (ŠTYS 1959), the Poodří PLA (6274, 6275, 6373) (BRYJA & KMENT 2001), Vyšší Lhoty (Profil Morávky NM, 6376) (ROHÁČOVÁ 2001b), Hukvaldy (Hradní vrch hill, 6375) (ROHÁČOVÁ 2003b), Sviadnov (6275), Ostrava (Zábřeh, 6275) (ROHÁČOVÁ & DROZD 2009), and Huslenky (Pasínek Losový, 6674) (ROHÁČOVÁ 2012).

Oncotylus (Oncotylus) viridiflavus viridiflavus (Goeze, 1778)

Published record. KMENT *et al.* (2005): Malá Vrbka, Výzkum hill, restored grassland (208).

Material examined. Lipov, Pešunk (100), 27.vi.2008, 1 ♂, Z. Malinka lgt. (ZMOC). Blatnička, Milejovské louky meadows (104), 24.v.2009, 11.vii.2009, 1 ♂, P. Baňář lgt. et det. (MMBC). Javorník, Machová NR (259), 9.vii.–2.viii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only in the southern part of the area. **General distribution:** West Eurosiberian, extending to Transcaucasia. **Biology and habitat:** On *Centaurea*, in particular *C. nigra* and *C. jacea*. Often in disturbed habitats, e.g. degraded dry grassland, field margins and alluvial vegetation (WACHMANN *et al.* 2004, KMENT *et al.* 2005, BRYJA & KMENT 2007). **Red List status:** –.

Comments. Rarely recorded in the Czech Republic, most findings are from the Moravian Pannonicum (STEHLÍK 1977, KMENT *et al.* 2005, MALENOVSKÝ *et al.* 2011).

***Orthocephalus brevis* (Panzer, 1798)**

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petřůvka, U Petřůvky NM (14), 13.v.–3.vi.2008, Mt, 1 ♂ (ma), 3.–23.vi.2008, Mt, 1 ♂ (ma), 23.vi.–16.vii.2008, Mt, 1 ♂ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Sidonie, Sidonie NR (87), 25.v.–16.vi.2010, Mt, 1 ♂ (ma), P. Chvojka & J. Macek lgt. (NMPC). Lopeník (152), 8.vi.1999, 1 ♀ (br), K. Hradil lgt. et det. (KHMC). Žitková (163), 11.vi.1999, 1 ♀ (br), K. Hradil lgt. et det. (KHMC). Petrov [as Pavlov u Radějova] (182), vi.1946, 1 ♀ (br), Raušer lgt. (MMBC). Radějov, Žerotín NM (188), 14.vii.–5.viii.2008, Mt, 1 ♂ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Kútky NR (217), 26.vi.–15.vii.2008, Mt, 1 ♂ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 2.–25.vi.2009, Mt, 1 ♂ (ma), P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 26.v.2005, 1 ♂ (ma), I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 29.vi.2001, 1 ♀ (br), P. Kment lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Nová Lhota, Fojtické Mlýny (245), 24.vii.1980, 3 ♀♀ (br), L. Pospíšilová lgt. (MMBC). Javorník, Machová NR (259), 8.–28.v.2007, Mt, 2 ♂♂ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 2.vii.2001, 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC); 15.vi.–9.vii.2010, Mt, 3 ♂♂ (ma), P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, although most records come from its southern part; a characteristic species for species-rich meadows. **General distribution:** Eurosiberian. **Biology and habitat:** On *Campanula*, but also on Asteraceae (*Achillea*, *Artemisia*, *Centaurea*) and Lamiaceae (*Phlomis tuberosa*) (WACHMANN *et al.* 2004, NAMYATOVA & KONSTANTINOV 2009) in dry, open habitats. Rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. Besides the Bílé Karpaty PLA, *O. brevis* has been recorded in Moravia only from Kralice nad Oslavou (the Chvojnice river valley, 6863) (STEHLÍK 1944) and Staříč (Kamenná NM, 6375) (ROHÁČOVÁ 1990b, 2007a,b).

***Orthocephalus coriaceus* (Fabricius, 1777)**

Material examined. Nedašov, Jalovcová stráň NR (54), 3.vii.1999, 1 ♂ (ma), P. Kment & I. Malenovský lgt. (PKPC). Nedašov, meadow E of Jalovcová stráň NR (59), 30.vi.2004, 1 ♂ (ma), I. Malenovský lgt. (PKPC). Nedašov, Na Kopicích, meadow (90), 3.vii.1999, 2 ♂♂ (ma), P. Kment & I. Malenovský lgt. (PKPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 1 ♀ (br), L. Pospíšilová lgt., 1 ♀ (br), J. L. Stehlík lgt. (MMBC). Slavičín (69), 10.vii.1989, 4 ♀♀ (br), I. Vavřínová lgt. (MMBC). Popov (71), 6.viii.1980, 1 ♂ (ma) 1 ♀ (br), J. L. Stehlík lgt. (MMBC). Brumov, Uhlíčky (44), 30.vi.2004, 1 ♂ (ma), P. Kment lgt. (PKPC). Brumov, Kloboucká street (76), 30.vi.2004, 1 ♂ (ma), I. Malenovský lgt. (PKPC). Bylničky, Tarandové hill (80), 24.vi.1982, 3 ♂♂ (ma) 1 ♀ (br), P. Lauterer lgt. (MMBC). Boršice u Blatnice, Boršický potok brook valley (105), 16.viii.1984, 1 ♂ (ma), J. L. Stehlík lgt. (MMBC). Lopeník (152), 8.vi.1999, 3 ♂♂ (ma), K. Hradil lgt. et det. (KHMC). Strání, Dúbrava [= Dúbrava hill] (150), 7.vii.1980, 1 ♂ (ma), L. Pospíšilová lgt. (MMBC). Strání, Záhumenice, cattle pasture (265), 2.vii.2001, 1 ♂ (ma) 1 ♀ (br), I. Malenovský lgt., 20.vii.2002, 1 ♀ (br), I. Malenovský lgt. (PKPC). Strání, Javorina NNR, meadow (270), 3.–23.vi.2009, Mt, 1 ♀ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread in the northern and central parts of the area, in the southern part found only in the environs of the Mt. Velká Javořina. **General distribution:** European, introduced to North America. **Biology and habitat:** On Asteraceae (*Leucanthemum*, *Tanacetum*, *Hieracium*, *Achillea*, *Carduus*, *Centaurea*, *Artemisia*, etc.), but listed also from plants of other families (WACHMANN *et al.* 2004, NAMYATOVA & KONSTANTINOV 2009). In xerothermic, open habitats (e.g. sands, ruderal sites, field and road margins). Common (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded from about 17 localities: Brünn [= Brno] (6765–66, 6865–66), Prossnitz [= Prostějov] (6568), Boskowitz [= Boskovice] (6565–66) (SPITZNER 1892), Kobylí (7067) (HOBERLANDT 1947, as *O. mutabilis*), Dolní Lipová (5768), Žulová (5668) (ŠTYS 1959, as *O. mutabilis*), Mohelno (6863) (ROUBAL 1968), on ruderal vegetation in Brno (6765–66, 6865–66) (RAUS 1990), the Poodří PLA (Ostrava – Poruba, 6174; Bernartice nad Odrou, 6373; Suchdol nad Odrou, 6373) (BRYJA & KMENT 2001), Vyšní Lhoty (Profil Morávky NM, 6376) (ROHÁČOVÁ 2001b), Budkovice (Budkovický les forest, 6963; Budkovické skály rocks, 6964) (BRYJA *et al.* 2002), Staříč (Kamenná NM, 6375) (ROHÁČOVÁ 2007a,b), Ostrava (Hrabová, 6275; Zábřeh, 6175) (ROHÁČOVÁ & DROZD 2009), and Huslenky (Pasínek Losový, 6674) (ROHÁČOVÁ 2012).

***Orthocephalus saltator* (Hahn, 1835)**

Material examined. Petrůvka, U Petrůvky NM (14), 16.vii.–4.viii.2008, Mt, 1 ♂ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 1 ♀ (br), L. Pospíšilová lgt. (MMBC). Horní Němčí, Vínohrádky (121), 20.vii.2002, 1 ♀ (br), I. Malenovský lgt. (PKPC). Bánov, Skalky hill (125), 21.viii.1984, 1 ♀ (br), J. L. Stehlík lgt. (MMBC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 2 ♂♂ (ma) 5 ♀♀ (br), P. Kment lgt. (PKPC). Vápenice, Trstná brook valley (133), meadow, 6.vii.2001, 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Suchov (107), 20.viii.1941, 2 ♀♀ (br), A. Hoffer (NMPC). Javorník (234), 11.viii.1941, 2 ♀♀ (br), A. Hoffer (NMPC). Strání, Záhumenice, cattle pasture (265), 9.viii.2001, 1 ♀ (br), P. Kment lgt., 20.vii.2002, 2 ♀♀ (br), I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, quite rare. **General distribution:** Eurosiberian, introduced to North America. **Biology and habitat:** On various Asteraceae (especially *Hieracium pilosella*), but listed also from plants of other families (WACHMANN *et al.* 2004, NAMYATOVA & KONSTANTINOV 2009). In xerothermic habitats. Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded only from the Hrubý Jeseník Mts.: Altvater [= Praděd] (5969) (ASSMANN 1854, SPITZNER 1892), “Graupathal unter dem Spieglitzer Schneeberge” [= valley of the Krupá rivulet under Mt. Králícký Sněžník] (57–5867) (SPITZNER 1892), the Královský potok brook (exact location unknown) and Moravice (5969) in the Hrubý Jeseník Mts. (STEHLÍK 1952), and Huslenky (Pasínek Losový, 6674) in Hostýnsko-Vsetínská hornatina Mts. (ROHÁČOVÁ 2012).

***Orthocephalus vittipennis* (Herrich-Schaeffer, 1835)**

Material examined. Bánov, Skalky hill (125), 21.viii.1984, 1 ♀ (br), P. Raus lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, not recorded in the course of the recent survey. **General distribution:** Eurosiberian, extending to Anatolia and the Near East, and Central Asiatic. **Biology and habitat:** On Asteraceae (*Chrysanthemum*, *Achillea*, *Artemisia*, *Centaurea*, etc.), but listed also from plants of other families (WACHMANN *et al.* 2004, NAMYATOVA & KONSTANTINOV 2009). In xerothermic habitats. Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded only from the environs of Bzenec (7069) (STEHLÍK 1945a), Mikovice (6971), Čejč (7067), Pouzdřany (7065), Kobylí (7067), Rohatec (7169)

(HOBERLANDT 1947), Ostopovice (6865) (STEHLÍK 1948), on ruderal vegetation in Brno (6765–66, 6865–66) (RAUS 1990), Újezd u Brna (Špice NR, 6866), Křižanovice (Člupy, 6867), Budkovice (Budkovické skály rocks, 6964), and Hustopeče u Brna (Přední kopaniny, 7066) (MALENOVSKÝ *et al.* 2011).

Orthonotus rufifrons (Fallén, 1807)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Valašské Klobouky, U Rybníků (38), 2.vii.1999, 1 ♀, M. Horsák & P. Kment lgt. (PKPC). Návojná, Vrchy hill (45), 12.vii.2006, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 14.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Popov (71), 6.viii.1980, 2 ♂♂ 1 ♀, J. L. Stehlík lgt. (MMBC). Bylnice, railway station environs (83), 1.vii.1999, 1 ♂, P. Kment & M. Omesová lgt., J. Bryja det. (PKPC). Boršice u Blatnice, Boršický potok brook valley (105), 16.viii.1984, 3 ♀♀, J. L. Stehlík lgt. (MMBC). Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Lesná hill (123), 24.vii.1980, 1 ♀, J. L. Stehlík lgt. (MMBC). Komňa, Nový Dvůr (129), 21.viii.1984, 1 ♂ 1 ♀, P. Raus & J. L. Stehlík lgt. (MMBC). Strání, Obecnice hill, at transmission tower (144), 2.vii.2001, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 29.v.–19.vi.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♀ (br), P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 1 ♂, P. Kment lgt. (PKPC). Vápenice, V Krátkých (170), 6.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Radějov, Žerotín NM (188), 4.–26.vi.2008, Mt, 1 ♂, 26.vi.–14.vii.2008, Mt, 3 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Holý vrch hill (189), 4.vii.1977, 4 ♂♂, L. Pospíšilová lgt., 2 ♀♀, J. L. Stehlík lgt. (MMBC). Kněždub, Radějovka brook valley below Čertoryje (198), 17.vi.2000, 2 ♂♂ 1 ♀, 8.vii.2000, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 18.vi.2000, 1 ♂, I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 1 ♂, P. Kment lgt. (PKPC). Radějov, Mandát brook valley below Kútky NR (218), 4.–26.vi.2008, Mt, 1 ♂, 15.vii.–5.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, below Zahrady pod Hájem NNR (221), 19.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 2 ♀♀, P. Kment lgt. (PKPC). Javorník, Jazevěč NNR (232), 19.vi.2000, 5 ♂♂ 6 ♀♀, I. Malenovský lgt. (PKPC); 25.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevěč NNR, left-side tributary of Velička river (241), 2.–25.vi.2009, Mt, 1 ♂, 25.vi.–15.vii.2009, Mt, 3 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Machová NR (259), 28.v.–18.vi.2007, Mt, 1 ♂, 18.vi.–9.vii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt., 15.vi.–13.vii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 2.vii.2001, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: West Eurosiberian, extending to Anatolia and Iran. **Biology and habitat:** On *Urtica dioica*, particularly in moist, shaded places, more rarely on drier, open localities. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Orthops (Orthops) basalis (A. Costa, 1853)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 6.viii.1999, 2 ♀♀, P. Kment lgt., J. Bryja det. (PKPC); 16.vii.–4.viii.2008, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 19.v.1999, 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det., 9.ix.1999, 1 ♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt., J. Bryja

True bugs (Hemiptera: Heteroptera)

revid., 10.ix.1999, 2 ♀♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Královec hill (33), 10.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Valašské Klobouky, NW slope of Královec hill (35) and U Rybníků (38), 10.ix.1999, 1 ♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, U Rybníků (38), 2.vii.1999, 1 ♂ 1 ♀, M. Horsák & P. Kment lgt., J. Bryja det. (PKPC). Poteč, Ploštiny NR (42), 13.ix.1999, 1 ♂ 1 ♀, I. Malenovský & T. Vymyslický lgt., J. Bryja det., 17.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 23.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 3.vii.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja revid., 25.viii.2002, 1 ♂ 1 ♀, P. Kment lgt., 5.x.2004, 5 ♂♂ 5 ♀♀, I. Malenovský lgt., 16.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt., 16.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 1 ♀, L. Pospíšilová lgt. (MMBC). Petřůvka, Kladenka brook valley (64), 4.–25.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Popov (71), 6.viii.1980, 1 ♀, J. L. Stehlík lgt. (MMBC). Bylnice, railway station environs (83), 11.ix.1999, 2 ♂♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 1.ix.2004, 1 ♀, 5.x.2004, 1 ♀, 6.ix.2005, 1 ♂, I. Malenovský lgt. (PKPC). Sidonie, Vlárka brook valley (92), 8.ix.1981, 1 ♂, L. Pospíšilová lgt. (MMBC). Boršice u Blatnice, Boršický potok brook valley (105), 16.viii.1984, 1 ♀, J. L. Stehlík lgt. (MMBC). Horní Němčí, Hornoněmčanský háj forest (108), 10.ix.2002, 1 ♀, I. Malenovský lgt., J. Bryja det. (PKPC). Korytná (115), 23.vii.1951, 1 ♀, J. L. Stehlík lgt. (MMBC). Horní Němčí, Drahy NR (117), 10.ix.1998, 2 ♂♂ 1 ♀, I. Malenovský & M. Omesová lgt., J. Bryja revid. (PKPC). Březová, Cestiska NM (136), 2.x.2007, 2 ♀♀, O. Konvička lgt. (NMPC). Strání, Klanečnice brook valley between village and Žabka reservoir (143), 16.v.1998, 1 ♀, P. Kment lgt., J. Bryja det. (PKPC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 1 ♂, 19.vi.–11.vii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 2 ♂♂ 1 ♀, 8.viii.2007, 1 ♂, 22.ix.2007, 1 ♀, P. Kment lgt. (PKPC). Vyškovecké Bošačky, cattle pasture (179), 3.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 19.viii.2002, 1 ♂, P. Kment lgt. (PKPC); 5.–26.viii.2008, Mt, 3 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Kněždubský háj forest (197), 17.viii.2000, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 8.vii.2000, 1 ♂, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 27.vi.2002, 1 ♀, I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 24.vii.2000, 1 ♂ 1 ♀, I. Malenovský lgt., J. Bryja det., 18.viii.2000, 1 ♀, P. Kment lgt., J. Bryja det., 9.–10.ix.2000, 2 ♂♂, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC); 6.–24.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 16.viii.2004, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Jazevěčí NNR (232), 2.–25.vi.2009, Mt, 1 ♀, 25.vi.–15.vii.2009, Mt, 2 ♂♂ 1 ♀, 5.–24.viii.2009, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, towards Suchovské Mlýny, Velička river valley (233), 6.v.2000, 1 ♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 1 ♀, J. Meduna lgt. (MMBC). Javorník, Jazevěčí NNR, left-side tributary of Velička river (241), 6.iv.–12.v.2009, Mt, 1 ♀, 15.vii.–5.viii.2009, Mt, 1 ♂ 4 ♀♀, 5.–24.viii.2009, Mt, 1 ♂ 4 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Fojtické Mlýny (245), 24.vii.1980, 1 ♂, L. Pospíšilová lgt. (MMBC). Nová Lhota, Hryzlácké Mlýny (246), 22.vi.–15.vii.2009, Mt, 1 ♀, 15.vii.–4.viii.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Vápenky, Porážky NNR (247), 9.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt., J. Bryja det. (PKPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 22.vi.–15.vii.2009, Mt, 2 ♂♂, 5.–24.viii.2009, Mt, 1 ♀, 16.ix.–21.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Vápenky, Velička brook valley below Hubertova bouda hut (253), 21.viii.2002, 2 ♀♀, P. Kment lgt., J. Bryja det. (PKPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 7.iv.–5.v.2010, Mt, 1 ♂, 24.v.–15.vi.2010, Mt, 1 ♀, 15.vi.–13.vii.2010, Mt, 4 ♂♂ 13 ♀♀, 13.vii.–10.viii.2010, Mt, 4 ♂♂ 5 ♀♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 14.v.1998, 1 ♀, P. Kment lgt., J. Bryja det. (PKPC); 28.v.–18.vi.2007, Mt, 2 ♂♂ 2 ♀♀, 18.vi.–9.vii.2007, Mt, 3 ♂♂ 4 ♀♀, 9.vii.–2.viii.2007, Mt, 1 ♂, 2.–22.viii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt., 7.iv.–5.v.2010, Mt, 1 ♀, 15.vi.–13.vii.2010, Mt, 1 ♂ 1 ♀, 13.vii.–10.viii.2010, Mt, 1 ♂ 2 ♀♀, 10.viii.–7.ix.2010, Mt, 2 ♀♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 2.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 25.v.–15.vi.2010, Mt, 3 ♀♀, 15.vi.–9.vii.2010, Mt, 1 ♂ 1 ♀, 9.vii.–12.viii.2010, Mt, 7 ♂♂ 11 ♀♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 4.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: West Palaearctic, introduced to North America. **Biology and habitat:** On Apiaceae. Euryecious, both in xerothermic, open habitats and humid, shaded places. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Orthops (Orthops) campestris (Linnaeus, 1758)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Brumovská street (30), 19.v.1999, 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Valašské Klobouky, U Rybníků (38), 22.v.1999, 1 ♀, P. Kment lgt., J. Bryja det. (PKPC). Poteč, Ploščiny NR (42), under scales of the bark of *Abies alba*, 12.iii.2006, 5 ♂♂ 3 ♀♀, O. Konvička lgt. (PKPC). Brumov, Uhličky (44), 28.vii.2005, 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 30.vi.1999, 1 ♀, M. Horskák & P. Kment lgt., J. Bryja det., 14.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 2 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 20.v.1999, 1 ♂, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Slavičín (69), 10.vii.1989, 1 ♀, I. Vavřínová lgt. (MMBC). Popov (71), 6.viii.1980, 1 ♂ 2 ♀♀, J. L. Stehlík lgt. (MMBC). Štítina nad Vlárí, south-exposed slopes N of the village (74), 10.vii.2006, 1 ♀, O. Konvička lgt. (NMPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Bylnice, between Vlára river and Lazy NR (81), 21.v.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt., J. Bryja det., 1.vii.1999, 1 ♂, P. Kment & M. Omesová lgt., J. Bryja det. (PKPC). Bylnice, Lazy NR and environs (82), 12.ix.1999, 1 ♂ 3 ♀♀, I. Malenovský & T. Vymyslický lgt., J. Bryja det. (PKPC). Sidonie, Sidonie NR (87), 5.vii.–11.viii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Boršice u Blatnice, Boršický potok brook valley (105), 16.viii.1984, 1 ♀, J. L. Stehlík lgt. (MMBC). Korytná, Březí (113), 5.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Bánov, Skalky hill (125), 21.viii.1984, 1 ♀, J. L. Stehlík lgt. (MMBC). Žitková (163), 11.vi.1999, 1 ♂, K. Hradil lgt. et det. (KHMC). Žitková, Hutě NR (164), 11.–31.vii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Radějov, Žerotín NM (188), 14.vii.–5.viii.2008, Mt, 1 ♂, 5.–26.viii.2008, Mt, 1 ♂, 26.viii.–24.ix.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Hrubá Vrbka, football ground (211), 16.viii.2000, 1 ♀, P. Kment lgt. (PKPC). Suhovské Mlýny, sheep pasture (226), 16.viii.2004, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 15.vii.–5.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 1 ♀, J. Meduna lgt. (MMBC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 6.iv.–12.v.2009, Mt, 1 ♀, 15.vii.–5.viii.2009, Mt, 3 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 16.ix.–21.x.2009, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 15.vi.–13.vii.2010, Mt, 1 ♂, 13.vii.–10.viii.2010, Mt, 2 ♂♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 8.v.2000, 1 ♀, I. Malenovský lgt. (PKPC); 7.iv.–5.v.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 9.vii.–2.viii.2007, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 9.vii.–12.viii.2010, Mt, 3 ♂♂, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: West Palaearctic. **Biology and habitat:** On Apiaceae. Mostly in sunny, warm habitats, both wet and dry, also in gardens. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Orthops (Orthops) kalmii (Linnaeus, 1758)

Published records. KMENT (2001): Kněždub, Čertoryje NNR (202). KMENT & MALENOVSKÝ (2008): Nedašov, Jalovcová stráž NR (54).

Material examined. Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 1 ♀, M. Horskák & P. Kment lgt., J. Bryja det., 9.ix.1999, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Brumovská street (30), 9.ix.1999, 1 ♀, I. Malenovský lgt. (PKPC). Poteč, Ploščiny NR (42), 17.viii.2006, 3 ♂♂, P. Kment lgt. (PKPC). Brumov, Uhličky (44), 28.vii.2005, 2 ♂♂ 5 ♀♀, 4.ix.2005, 2 ♂♂ 5 ♀♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 14.viii.2006, 2 ♀♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 25.viii.2002, 1 ♂, P. Kment lgt., 1.ix.2004, 1 ♂ 1 ♀, I. Malenovský lgt., 5.x.2004, 6 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54) and along road to Nedašov (52), 10.ix.1999, 1 ♂ 1 ♀, I. Malenovský & T. Vymyslický lgt., J. Bryja det. (PKPC). Nedašov, Kaňoury NM (55), 2.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt., 16.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006,

True bugs (Hemiptera: Heteroptera)

2 ♂♂ 2 ♀♀, 18.viii.2006, 2 ♂♂ 6 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Bylničky, Tarandové hill (80), 24.vi.1982, 2 ♀♀, P. Lauterer lgt. (MMBC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 1 ♂, P. Kment & M. Omesová lgt., J. Bryja det., 12.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt., J. Bryja det. (PKPC). Bylnice, railway station environs (83), 11.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 6.ix.2005, 3 ♂♂, I. Malenovský lgt. (PKPC). Boršice u Blatnice, Boršický potok brook valley (105), 16.viii.1984, 2 ♂♂ 1 ♀, J. L. Stehlík lgt. (MMBC). Korytná, Březi (113), 5.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 2 ♀♀, P. Kment & I. Malenovský lgt., 13.viii.2001, 2 ♂♂ 3 ♀♀, 21.ix.2001, 1 ♂ 3 ♀♀, P. Kment lgt., J. Bryja det., 21.vii.2002, 1 ♂, I. Malenovský lgt., J. Bryja det., 10.ix.2002, 1 ♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Horní Němčí, Vinohrádky (121), 10.ix.2002, 1 ♂ 1 ♀, I. Malenovský lgt., J. Bryja det. (PKPC). Strání, Klanečnice brook valley between village and Žabka reservoir (143), 16.v.1998, 1 ♂, P. Kment lgt., J. Bryja det. (PKPC). Strání, Obecnice hill, at transmission tower (144), 2.vii.2001, 1 ♀, P. Kment lgt., 9.viii.2001, 1 ♀, P. Kment lgt., 12.ix.2002, 2 ♀♀, I. Malenovský lgt., J. Bryja det. (PKPC). Lopeník, U Zvonice NM (155), 24.vii.2005, 2 ♂♂ 1 ♀, I. Malenovský lgt., 18.viii.2004, 1 ♂, P. Kment lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 18.viii.2004, 2 ♂♂ 1 ♀, P. Kment lgt., 25.ix.2004, 1 ♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 29.v.–19.vi.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 22.ix.2007, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 1 ♂ 2 ♀♀, 8.viii.2007, 2 ♂♂ 2 ♀♀, 22.ix.2007, 3 ♂♂, P. Kment lgt. (PKPC). Výskovec, Pod Hřibovňou NM (176), 19.viii.2004, 1 ♂, P. Kment lgt. (PKPC). Výskovecké Bošačky, cattle pasture (179), 25.ix.2004, 1 ♂, 24.vii.2005, 1 ♂, P. Kment lgt., 3.ix.2005, 3 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Výskovecké Bošačky, meadow and orchard (180), 19.viii.2004, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 19.viii.2002, 1 ♂ 1 ♀, P. Kment lgt. (PKPC); 14.vii.–5.viii.2008, Mt, 2 ♂♂, 5.–26.viii.2008, Mt, 7 ♂♂, 24.ix.–27.x.2008, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Kněždubský háj forest (197), 17.viii.2000, 1 ♂, P. Kment lgt., 28.vii.2001, 2 ♀♀, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 8.vii.2000, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 28.vii.2001, 5 ♀♀, I. Malenovský lgt., J. Bryja det., 20.ix.2001, 1 ♀, 4.x.2002, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 16.viii.2000, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, below Zahrady pod Hájem NNR (221), 19.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, village, Velička river above the weir (224), 9.ix.2000, 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 24.vii.2000, 1 ♂ 2 ♀♀, I. Malenovský lgt., 18.viii.2000, 1 ♀, P. Kment lgt., J. Bryja det., 9.–10.ix.2000, 2 ♂♂, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC); 15.vii.–6.viii.2009, Mt, 2 ♀♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 16.viii.2004, 1 ♀, 1.x.2004, 1 ♂, I. Malenovský lgt. (PKPC). Suchovské Mlýny, meadow (227), 27.vii.2005, 2 ♀♀, I. Malenovský lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 16.viii.2004, 5 ♂♂ 5 ♀♀, P. Kment lgt., 1.x.2004, 3 ♂♂ 4 ♀♀, 27.vii.2005, 1 ♂, 1.ix.2005, 5 ♀♀, I. Malenovský lgt. (PKPC). Trnovský Mlýn, meadow (229), 1.x.2004, 2 ♂♂ 2 ♀♀, 1.ix.2005, 3 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 10.ix.2000, 2 ♂♂ 2 ♀♀, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC); 12.v.–2.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Nad Vápenkou NM (236), 7.ix.2002, 3 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 1 ♀, J. Meduna lgt. (MMBC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♂ 2 ♀♀, I. Malenovský lgt., 8.viii.2001, 1 ♂ 2 ♀♀, P. Kment lgt., J. Bryja det., 17.vii.2002, 1 ♀, I. Malenovský lgt., J. Bryja det., 7.ix.2002, 1 ♀, 27.vii.2005, 2 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 29.vi.2001, 1 ♂, 8.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 7.iv.–5.v.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 18.vi.–9.vii.2007, Mt, 1 ♂, 9.vii.–2.viii.2007, Mt, 5 ♂♂ 1 ♀, 22.viii.–10.ix.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt., 7.iv.–5.v.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 9.viii.2001, 1 ♂ 6 ♀♀, P. Kment lgt., 21.ix.2001, 2 ♂♂ 5 ♀♀, I. Malenovský lgt., J. Bryja det. (PKPC). Strání, Záhumenice NM (266), 21.ix.2001, 2 ♂♂ 2 ♀♀, I. Malenovský lgt., J. Bryja det. (PKPC). Strání, Javorina NNR, meadow (270), 17.ix.–21.x.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: West Palaearctic, extending to the Yenisei river. **Biology and**

habitat: On Apiaceae. Euryecious, in xerothermic, open habitats as well as humid, shaded places. Common (WACHMANN *et al.* 2004). **Red List status:** –.

***Orthotylus (Litocoris) ericetorum ericetorum* (Fallén, 1807) (NT)**

Material examined. Velká nad Veličkou, Zahrady pod Hájem NNR (225), 2.–25.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, only one specimen was collected with a Malaise trap in the Zahrady pod Hájem NNR. Considering the absence of the host plant in natural habitats of the southern part of the Bílé Karpaty PLA, this record is a puzzle; the specimen may have originated in ornamental gardens of the nearby village or may represent a migrating individual. **General distribution:** West Eurosiberian, extending to Maghreb. **Biology and habitat:** On *Calluna vulgaris* and *Erica* spp. in xerothermic heathland, wet moors, as well as in undergrowth of open pine woodland. Locally common (WACHMANN *et al.* 2004). **Red List status:** Near-threatened.

Comments. In Moravia recorded so far only from Senorady (6863) (STEHLÍK & HOBERLANDT 1953) and the Rychlebské hory Mts.: Ostružná (5868), Paprsek or Mt. Palaš (5765) (ŠTYS 1956, 1959, as *Melanotrichus ericetorum*).

***Orthotylus (Orthotylus) flavinervis* (Kirschbaum, 1856)**

Material examined. Kněždub, Radějovka brook valley below Čertoryje (198), 8.vii.2000, 1 ♀, P. Kment lgt., J. Bryja revid. (JBSC).

Additional material examined. MORAVIA: Křižánky, Kyšperský rybník pond (6362, N 49°41'10" E 16°03'33"), 24.vi.2000, 1 ♂, P. Kment lgt. (PKPC). Jedovnice, Budkovan ponds (6666, N 49°19'45" E 16°46'49"), 2.vii.2000, 1 ♂, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only in one locality in the southern part of the area. **General distribution:** European, extending to Transcaucasia. **Biology and habitat:** On *Alnus*, especially *A. glutinosa*, on shores of bodies of water and at forest margins. Widespread but rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. For Moravia recorded only by STEHLÍK (1944) from Studenec (67–6862).

***Orthotylus (Orthotylus) interpositus* Schmidt, 1938**

Material examined. Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 11.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Popov, Havránkův potok brook valley (71), 6.viii.1980, 4 ♂♂ 11 ♀♀, J. L. Stehlík lgt. (MMBC). Bylničky, Tarandové hill (80), 24.vi.1982, 2 ♂♂ 2 ♀♀, P. Lauterer lgt. (MMBC). Bylnice, railway station environs (83), 1.vii.1999, 1 ♀, P. Kment & M. Omesová lgt., J. Bryja det. (PKPC). Nedašov, Na Kopanicách, brook (89), 3.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt., J. Bryja det. (JBSC). Horní Němčí, Drahy NR (117), on *Salix purpurea*, 30.vi.2001, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Strání, Důbrava [= Důbrava hill] (150), 7.vii.1980, 1 ♂ 3 ♀♀, P. Lauterer lgt. (MMBC). Javorník, Jazevčí NNR (232), 19.vi.2000, 2 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, but quite rare. **General distribution:** Eurosiberian. **Biology and habitat:** On *Salix*,

especially *S. purpurea*, but also on other species. Widespread, quite rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia so far known only from the Hrubý Jeseník Mts. (STEHLÍK 1952), the Moravskoslezské Beskydy Mts. (ROHÁČOVÁ 1994, 2001b), and the Poodří PLA (BRYJA & KMENT 2001).

Orthotylus (Orthotylus) marginalis Reuter, 1883

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 2 ♀♀, M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, U Rybníků (38), 2.vii.1999, 1 ♂ 1 ♀, M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 16.vi.2006, 4 ♂♂, I. Malenovský lgt., 11.vii.2006, 2 ♂♂ 8 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, meadow (48), 19.v.1999, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 17.vi.2006, 3 ♂♂, I. Malenovský lgt. (PKPC). Brumov, Holý vrch hill (79), 14.vi.1971, 1 ♂ 4 ♀♀, J. L. Stehlík lgt. (MMBC). Bylničky (80), Tarandové hill, 24.vi.1982, 3 ♀♀, P. Lauterer lgt. (MMBC). Bylnice, railway station environs (83), 1.vii.1999, 3 ♀♀, P. Kment & M. Omesová lgt. (PKPC). Sidonie, Sidonie NR (87), 5.vii.–11.viii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 7 ♂♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Lesná hill (123), 24.vii.1980, 1 ♀, J. L. Stehlík lgt. (MMBC). Lopeník (152), 8.vi.1999, 4 ♂♂, K. Hradil lgt. et det. (KHMC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 24.vii.2005, 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 1 ♂ 4 ♀♀, P. Kment lgt. (PKPC). Vápenice, V Krátkých (170), 6.vii.2001, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 22.vi.2001, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 15.vi.–14.vii.2010, Mt, 7 ♂♂, 14.vii.–12.viii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, village (206), 19.vi.2000, 1 ♂, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Radějov, Kútky NR (217), 4.–26.vi.2008, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 29.vi.2001, 1 ♀, P. Kment lgt. (PKPC); 2.–25.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, towards Suchovské Mlýny, Velička river valley (233), 29.vi.2001, 2 ♂♂ 3 ♀♀, P. Kment lgt. (PKPC). Javorník, loampit (235), 24.v.2002, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 15.vi.–13.vii.2010, Mt, 2 ♀♀, 13.vii.–10.viii.2010, Mt, 1 ♂, 10.viii.–7.ix.2010, Mt, 1 ♀, 7.ix.–21.x.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 18.vi.–9.vii.2007, Mt, 1 ♂, 9.vii.–2.viii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 2.vii.2001, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 15.vi.–9.vii.2010, Mt, 1 ♂ 1 ♀, 9.ix.–22.x.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 4.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Eurosiberian and Central Asiatic. **Biology and habitat:** Zoophytophagous. On deciduous trees, especially *Salix* (*S. cinerea* and *S. purpurea*), more rarely on other trees, such as *Alnus*, *Malus*, *Fraxinus*, *Tilia*, and *Ulmus*. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Orthotylus (Orthotylus) nassatus (Fabricius, 1787)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Malá Vrbka, village (206), on *Tilia* sp., 16.viii.2000, 1 ♀, P. Kment lgt. (PKPC). Javorník, village (239), linden alley towards cemetery, on *Tilia* sp., 8.viii.2001, 1 ♀, P. Kment lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 8.viii.2001, 2 ♂♂, P. Kment lgt. (PKPC).

Additional material examined. MORAVIA: Křižánky, Kyšperský rybník pond (6362, N 49°41'10" E 16°03'33"), 22.vii.2000, on *Tilia* sp., 1 ♂, P. Kment lgt. (PKPC). Brno – Bystrc, housing estate (6765, N 49°13'03" E 16°30'11"), 29.vi.2000, on *Populus tremula*, 1 ♂, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, found only in the central and southern parts of the area. **General distribution:** Eurosiberian and Central Asiatic; introduced to North America. **Biology and habitat:** Probably zoophytophagous. Predominantly on *Tilia*, less frequently on other deciduous trees (*Quercus*, *Fraxinus*, *Alnus*, *Salix*, *Populus*, etc.). Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded from the environs of Brunn [= Brno] (67–6865, 67–6866), Prossnitz [= Prostějov] (6568) (SPITZNER 1892), and Suchdol nad Odrou (6373) (BRYJA & KMENT 2001).

Orthotylus (Orthotylus) prasinus (Fallén, 1826)

Material examined. Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 11.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Návojná, Vrchy hill (45), 12.vii.2006, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt., 16.viii.2006, 2 ♀♀, P. Kment lgt. (PKPC). Popov (71), 6.viii.1980, 3 ♂♂ 6 ♀♀, J. L. Stehlík lgt. (MMBC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 1 ♂, P. Kment lgt. (PKPC). Radějov, Holý vrch hill (189), 4.vii.1977, 6 ♂♂ 4 ♀♀, L. Pospíšilová & J. L. Stehlík lgt. (MMBC). Kněždub, Kněždubský háj forest (197) and Radějovka brook valley (198), 17.vi.2000, 1 ♀, P. Kment lgt., J. Bryja det. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 14.vii.–12.viii.2010, Mt, 2 ♂♂, P. Chvojka & J. Macek lgt. (NMPC). Radějov, Mandát brook valley below Kútky NR (218), 26.vi.–15.vii.2008, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 1 ♂, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 2 ♂♂, I. Malenovský lgt. (JBSC, PKPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 10.viii.–7.ix.2010, Mt, 1 ♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** European. **Biology and habitat:** On deciduous trees, especially on *Ulmus*, but also on other genera (*Corylus*, *Quercus*, *Acer*, *Prunus*, *Salix*, *Fraxinus*, etc.). Widespread but quite rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. For Moravia recorded only by STEHLÍK (1961) from Hranice (6472), Rožnov pod Radhoštěm (6574), and four localities in Brno and its environs (67–6865).

Orthotylus (Orthotylus) tenellus (Fallén, 1807)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Bílé potoky NR (46, 47, 48), 16.vi.2006, 1 ♀, I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 17.vi.2006, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Korytná, Březí (113), 5.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR (117), 3.v.2002, 3 ♂♂, P. Kment lgt. (PKPC). Horní Němčí, Drahy NR env. (118), 7.vii.1980, 1 ♀, L. Pospíšilová lgt. (MMBC). Strání, Důbrava [= Důbrava hill] (150), 7.vii.1980, 1 ♂, P. Lauterer lgt. (MMBC). Radějov, Žerotín NM (188), 10.vi.2000, 1 ♀, J. Bryja lgt. (JBSC). Kněždub, Radějovka brook valley below Čertoryje (198), 22.vi.2001, 1 ♂, P. Kment lgt. (PKPC). Velká nad Veličkou, village (222), 19.vi.2000, on deciduous trees, 1 ♂, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 1 ♂ 2 ♀♀, I. Malenovský lgt. (PKPC); 12.v.–2.vi.2009, Mt, 1 ♂ 2 ♀♀, 2.–25.vi.2009, Mt, 5 ♂♂ 6 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 12.v.–2.vi.2009, Mt, 1 ♀, 5.–24.viii.2009, Mt, 1 ♀, P. Chvojka,

True bugs (Hemiptera: Heteroptera)

J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 2 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 24.v.2002, 1 ♂ 4 ♀♀, P. Kment lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 12.v.–3.vi.2009, Mt, 1 ♀, 3.–22.vi.2009, Mt, 1 ♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 15.vi.–13.vii.2010, Mt, 1 ♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Výzkum hill (258), 10.vi.1982, 5 ♀♀, J. L. Stehlík lgt. (MMBC). Javorník, Machová NR (259), 8.–28.v.2007, Mt, 2 ♂♂, 28.v.–18.vi.2007, Mt, 1 ♂, 18.vi.–9.vii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 8.–28.v.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 2.vii.2001, 2 ♂♂, P. Kment & I. Malenovský lgt., 23.v.2002, 1 ♂, P. Kment lgt. (PKPC); 15.vi.–9.vii.2010, Mt, 2 ♂♂ 2 ♀♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 3.–23.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: West Eurosiberian, extending to Maghreb and Transcaucasia.

Biology and habitat: Zoophytophagous. On deciduous trees, especially *Quercus*, *Fraxinus* and *Corylus*, more rarely on other genera. Common (WACHMANN *et al.* 2004).

Red List status: –.

Orthotylus (Orthotylus) virens (Fallén, 1807)

Material examined. Vápenice, V Krátkých (170), 6.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 18.vi.–9.vii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Additional material examined. MORAVIA: Mosty u Jablunkova, under the former customs house (6478), 475 m a.s.l., 13.vii.1994, 1 ♂ 1 ♀, M. Roháčová lgt. et det., P. Kment revid. (MBFC). Drahonín, Hadůvka brook valley (6563), 26.vii.1978, 1 ♂, J. L. Stehlík lgt. (MMBC). Rychtářov, Malá Haná rivulet valley (6667), 17.viii.1978, 1 ♂, J. L. Stehlík lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected at two sites only.

General distribution: West Eurosiberian. **Biology and habitat:** On narrow-leaved, more rarely also on broad-leaved, *Salix* species. Widespread but rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded only from Horní Bečva (valley of the Mečůvka brook, 6575) in the Moravskoslezské Beskydy Mts. (STEHLÍK & HOBERLANDT 1954), Žulová (5668) in the Rychlebské hory Mts. (ŠTYS 1959), in willow plantation of *S. viminalis* near Skalička (6472) (DOBŠÍK & URBAN 1981), Lednice (Horní les floodplain forest, 7166) (KŘÍSTEK & DOBŠÍK 1985, KŘÍSTEK 1991), and Kozlovice (Rybníky NR, 6475) in the Moravskoslezské Beskydy Mts. (ROHÁČOVÁ 2003a).

Orthotylus (Orthotylus) viridinervis (Kirschbaum, 1856)

Material examined. Petrůvka, Kladenka brook valley (64), 23.vi.–16.vii.2008, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Brumov, Holý vrch hill (79), 14.vi.1971, 1 ♂ J. L. Stehlík lgt. (MMBC). Bylničky, Tarandové hill (80), 24.vi.1982, 1 ♂, P. Lauterer lgt. (MMBC). Horní Němčí, Drahy NR env. (118), 7.vii.1980, 4 ♂♂ 6 ♀♀, P. Lauterer lgt. (MMBC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♂ 1 ♀, J. L. Stehlík lgt. (MMBC). Kněždub, Kněždubský háj forest (197) and Radějovka brook valley (198), 17.vi.2000, 1 ♀, P. Kment lgt., J. Bryja det. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 1 ♂, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 2.–25.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), on *Tilia* sp., 29.vi.2001, 3 ♂♂ 1 ♀, P. Kment & I.

Malenovský lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 3.–22.vi.2009, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** West Eurosiberian, extending to Transcaucasia, introduced to North America. **Biology and habitat:** Zoophytophagous. On deciduous trees, especially *Ulmus*, less frequently on *Tilia* (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. The distribution of *O. viridinervis* in Moravia is poorly known as it was previously recorded only from Zblovice (7060) (STEHLÍK 1971), Kunín (6373), Jeseník nad Odrou (6373) (BRYJA & KMENT 2001), and Horní Bojanovice (Stračí, 7066) (MALENOVSKÝ *et al.* 2011).

Orthotylus (Pinocapsus) fuscescens (Kirschbaum, 1856)

Material examined. Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 12.v.–2.vi.2009, Mt, 1 ♂, 2.–25.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC).

Additional material examined. MORAVIA: Brno – Bystřec, Kuršova street (6765), 16.vi.2007, on *Pinus sylvestris*, 1 ♀, P. Kment lgt. (PKPC). Poštorná, sands at Františkův rybník pond (7267, N 48°43'05" E 16°52'00"), 2.vi.2003, 2 ♀♀, P. Kment lgt., J. Bryja det. (JBSC, PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only at two xerothermic sites in the southern part of the area. **General distribution:** Eurosiberian. **Biology and habitat:** On *Pinus sylvestris*, at higher altitudes also on *Picea abies*. Rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. For Moravia recorded only from Dolní Kounice (6964) (STEHLÍK 1971).

Orthotylus (Pseudorthotylus) bilineatus (Fallén, 1807)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Javorník, Jazevčí NNR (232), 19.vi.2000, 2 ♀♀, I. Malenovský lgt. (JBSC, PKPC); 29.vi.2001, on *Populus tremula*, 1 ♀, P. Kment lgt. (PKPC). Strání, Záhumenice NM (266), 2.vii.2001, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC).

Additional material examined. MORAVIA: Klentnice – Perná (7165), 9.viii.1962, 1 ♀, J. L. Stehlík lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only in the southern part of the area. **General distribution:** Eurosiberian. **Biology and habitat:** On *Populus*, mostly *P. tremula*, but also found on *P. alba*. Very rare (WACHMANN *et al.* 2004, MAGNIEN *et al.* 2010). **Red List status:** –.

Comments. In Moravia, *O. bilineatus* has been recorded so far only from the Hrubý Jeseník Mts.: Divoká Desná (5968–69) (STEHLÍK 1952), the Poodří PLA: Suchdol nad Odrou (6373) (BRYJA & KMENT 2001), and the Čertoryje NNR in the Bílé Karpaty PLA (KMENT 2001). There is an additional record of “*Capsus bilineatus* Fallén” from Altvater [= Mt. Praděd] (5969) in the Hrubý Jeseník Mts. (ASSMANN 1854). However, ASSMANN (1854) provided the following characteristics of the species: “In der Ebene und im

Gebirge, Ende Juni auf den Blüten von *Salvia pratensis* ziemlich häufig ...” [= In lowland and in mountains, at the end of June quite common on flowers of *Salvia pratensis*]. This record was accepted by STEHLÍK (1952) and GORCZYCA (2007), but a misidentification of *Macrotylus herrichi* seems likely, which is supported by the fact that *Capsus bilineatus* is listed just preceding *Capsus* [= *Macrotylus*] *solitarius* in the ASSMANN’s (1854) paper.

***Pantilius (Pantilius) tunicatus* (Fabricius, 1781)**

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Dobšená NM (31), 10.ix.1999, 1 ♂, I. Malenovský lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 10.ix.1999, 1 ♀ 1 spec., I. Malenovský & T. Vymyslický lgt. (PKPC); 24.viii.2002, larvae, P. Kment observ. Poteč, Ploščíny NR (42), 13.ix.1999, 2 ♂♂ 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), on *Alnus glutinosa* and *Corylus avellana*, 23.viii.2002, larvae, P. Kment observ. Bylnice, Lazy NR and environs (82), 12.ix.1999, 1 ♂ 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Březová, Cestiska NM (136), 2.x.2007, 1 ♂, O. Konvička lgt. (NMPC). Lopeník, U Zvonice NM (155), 25.ix.2004, 1 ♀, P. Kment lgt. (PKPC). Vápenice, V Krátkých (171), 14.x.2007, 1 ♂, P. Komzák lgt. (PKBC). Radějov, Žerotín NM (188), 19.viii.2002, 2 L, P. Kment observ. Radějov, Měsíční údolí valley (214), 8.ix.1998, 1 ♂ 1 ♀, I. Malenovský & M. Omesová lgt. (PKPC); 20.viii.2002, on *Alnus glutinosa*, larvae, P. Kment observ. Radějov, Mandát brook valley below Kútky NR (218), 24.ix.–28.x.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 9.–10.ix.2000, 8 ♂♂ 3 ♀♀ 2 L, P. Kment & I. Malenovský lgt. (PKPC); 14.ix.–20.x.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 10.ix.2000, 5 ♂♂ 5 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 14.ix.–22.x.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area.

General distribution: Eurosiberian. **Biology and habitat:** On *Alnus* and *Corylus*, rarely on *Betula* or other deciduous trees. Common (WACHMANN *et al.* 2004). **Red List status:** –.

***Phoenicocoris modestus* (Meyer-Dür, 1843)**

Published record. KMENT & BRYJA (2001): Velká nad Veličkou, Zahrady pod Hájem NNR (225).

Material examined. Petrůvka, Kladenka brook valley (64), 3.–23.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 22.vi.2001, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 22.vi.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 12.v.–2.vi.2009, Mt, 4 ♂♂ 3 ♀♀, 2.–25.vi.2009, Mt, 1 ♂ 1 ♀, 25.vi.–15.vii.2009, Mt, 2 ♀♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Quite rare, most records coming from the southern part of the area. **General distribution:** Eurosiberian. **Biology and habitat:** On *Pinus*, in the Czech Republic on *P. sylvestris* (KMENT & BRYJA 2001, WACHMANN *et al.* 2004). **Red List status:** –.

Comments. Probably a neglected species, known only from a few localities in both Bohemia and Moravia (KMENT & BRYJA 2001).

***Phoenicocoris obscurellus* (Fallén, 1829)**

Material examined. Horní Němčí, Drahy NR (117), 30.vi.2001, 3 ♂♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Komňa, Lom Rasová NM (128), on conifers, 5.vii.2001, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 22.vi.2001, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Javorník, towards Suchovské Mlýny, Velička river valley (233), 29.vi.2001, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only in the southern part of the area. **General distribution:** Eurosiberian. **Biology and habitat:** On *Pinus sylvestris*, and *P. mugo* in mountains, exceptionally also on *Picea abies* and *Juniperus communis*. Widespread but quite rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia known from Mohelno (6863) (STEHLÍK 1948, as *Psallus obscurellus*) and Kurdějov (Kamenný vrch hill, 7066) (MALENOVSKÝ *et al.* 2011).

***Phylus (Phylus) coryli* (Linnaeus, 1758)**

Material examined. Valašské Klobouky, U Rybníků (38), 2.vii.1999, 2 ♀♀, M. Horsák & P. Kment lgt. (PKPC). Poteč, Ploščiny NR (42), 4.vii.1999, 2 ♂♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (MHBC, PKPC). Valašské Klobouky, Královec – Ploščiny ridge (43), 4.vii.1999, 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 16.vi.2006, 1 ♀, I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55) and surrounding pastures (53), 3.vii.1999, 2 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Petruvka, Kladenka brook valley (64), 23.vi.–16.vii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Popov (71), 6.viii.1980, 2 ♀♀, J. L. Stehlík lgt. (MMBC). Brumov, Holý vrch hill (79), 14.vi.1971, 4 ♂♂ 10 ♀♀, L. Pospíšilová lgt., 4 ♂♂ 5 ♀♀, J. L. Stehlík lgt. (MMBC). Bylničky, Tarandové hill (80), 24.vi.1982, 6 ♂♂ 9 ♀♀, P. Lauterer lgt. (MMBC). Horní Němčí, Drahy NR env. (118), 7.vii.1980, 3 ♂♂ 1 ♀, P. Lauterer lgt. (MMBC). Horní Němčí, Lesná hill (123), 24.vii.1980, 2 ♂♂ 3 ♀♀, J. L. Stehlík lgt. (MMBC). Strání, Důbrava hill (150), 7.vii.1980, 1 ♂, L. Pospíšilová lgt. (MMBC). Lopeník, Mikulčín vrch hill (160), 17.vii.1964, 1 ♀, L. Pospíšilová lgt. (MMBC). Žitková (163), 11.vi.1999, 1 ♂ 1 ♀, K. Hradil lgt. et det. (KHMC). Vápenice, V Krátkých (170), 6.vii.2001, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Radějov, Žerotín NM (188), 4.–26.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Holý vrch hill (189), 4.vii.1977, 3 ♀♀, J. L. Stehlík lgt. (MMBC). Kněždub, Radějovka brook valley below Čertoryje (198), 22.vi.2001, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, between village and Výzkum hill (205), on *Corylus avellana*, 19.vi.2000, 1 spec., P. Kment lgt. (PKPC). Radějov, Mandát brook valley below Kútky NR (218), 26.vi.–15.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 3 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 2.–25.vi.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 5 ♀♀, P. Lauterer lgt. (MMBC). Javorník, Výzkum hill (258), 10.vi.1982, 1 ♀, J. L. Stehlík lgt. (MMBC). Strání, Záhumenice NM (266), 2.vii.2001, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 9.vii.–12.viii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** West Eurosiberian, extending to Anatolia and Transcaucasia; introduced to North America. **Biology and habitat:** Zoophytophagous. On *Corylus avellana*. Common (WACHMANN *et al.* 2004). **Red List status:** –.

***Phylus (Phylus) melanocephalus* (Linnaeus, 1767)**

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 1 spec., M. Horsák & P. Kment lgt. (PKPC). Poteč, Ploščiny NR (42), 1.vi.2002, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Valašské

True bugs (Hemiptera: Heteroptera)

Klobouky, Bílé potoky NR (46, 47, 48), 30.vi.1999, 2 ♀♀, M. Horsák & P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 16.vi.2006, 1 ♀, I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 17.vi.2006, 1 ♂ 3 ♀♀, I. Malenovský lgt., 12.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Korytná, Březí (113), 5.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR (117), 23.v.2002, 1 ♀, P. Kment lgt. (PKPC). Žitková (163), 11.vi.1999, 1 ♂ 2 ♀♀, K. Hradil lgt. et det. (KHMC). Vápenice, V Krátkých (170), 6.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Starý Hrozenkov (173), 4.viii.1962, 1 ♀, P. Lauterer lgt. (MMBC). Kněždub, Čertoryje NNR, Radějovka brook (204), 15.vi.–14.vii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Hrubá Vrbka, football ground (211), 8.vii.2000, 1 ♀, P. Kment lgt. (PKPC). Radějov, Kútky NR (217), 4.–26.vi.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Mandát brook valley below Kútky NR (218), 4.–26.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 12.v.–2.vi.2009, Mt, 3 ♂♂ 3 ♀♀, 2.–25.vi.2009, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 24.v.2002, 3 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 12.v.–3.vi.2009, Mt, 2 ♂♂ 2 ♀♀, 3.–22.vi.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 8.–28.v.2007, Mt, 1 ♂ 2 ♀♀, 28.v.–18.vi.2007, Mt, 1 ♀, 18.vi.–9.vii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt., 24.v.–15.vi.2010, Mt, 2 ♂♂ 1 ♀, 15.vi.–13.vii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 2.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt., 23.v.2002, 4 ♂♂ 1 ♀, P. Kment lgt. (PKPC); 25.v.–15.vi.2010, Mt, 2 ♂♂, 15.vi.–9.vii.2010, Mt, 1 ♂ 2 ♀♀, 9.vii.–12.viii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** West Eurosiberian, extending to Transcaucasia. **Biology and habitat:** Zoophytophagous. On *Quercus*. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Phylus (Teratoscopus) plagiatus (Herrich-Schaeffer, 1835)

Material examined. Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 3 ♂♂ 5 ♀♀, M. Horsák & P. Kment lgt., J. Bryja det. (JBSC, PKPC). Bylničky, Tarandové hill (80), 24.vi.1982, 1 ♀, P. Lauterer lgt. (MMBC). Horní Němčí, Drahy NR (117), on *Alnus incana*, 30.vi.2001, 1 ♂ 8 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, towards Suchovské Mlýny, Velička river valley (233), 29.vi.2001, 1 ♂ 1 ♀, P. Kment lgt. (PKPC).

Additional material examined. MORAVIA: Křižánky, Kyšperský rybník pond (6362, N 49°41'10" E 16°03'33"), 24.vi.2000, 12 ♂♂ 18 ♀♀, 22.vii.2000, 1 ♀, P. Kment lgt. (PKPC, MHBC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area except the very south, rare. **General distribution:** Central European. **Biology and habitat:** On *Alnus incana*, rarely on *A. glutinosa* or *Betula*. A mountain species, generally not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded so far only from the Hrubý Jeseník Mts. (STEHLÍK 1952) and Vyšší Lhoty (Profil Morávky NM, 6376) (ROHÁČOVÁ 2001b).

Phytocoris (Exophytocoris) parvulus Reuter, 1880

Material examined. Petrůvka, U Petrůvky NM (14), 4.–25.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Horní Němčí, Drahy NR (117), on *Juniperus communis*, 13.viii.2001, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Radějov, village (194), on *Juniperus sinensis*, 19.viii.2002, 1 spec., P. Kment observ.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area but rare. **General distribution:** Ponto-Mediterranean, extending to central Europe. **Biology and habitat:** Probably zoophytophagous. On *Juniperus communis* and rarely

Larix decidua in natural habitats and on introduced Cupressaceae (*Thuja*, *Chamaecyparis*) in towns and villages. Not rare (STEHLÍK 1998a, WACHMANN *et al.* 2004). **Red List status:** –.

Comments. The Moravian records were summarized by STEHLÍK (1963, 1998a).

***Phytocoris (Ktenocoris) austriacus* Wagner, 1954**

Published records. KMENT & BRYJA (2001): Malá Vrbka, [Výzkum hill], roadside vegetation (205). BRYJA & KMENT (2002): Horní Němčí, Drahy NR (117); Hrubá Vrbka, xerothermic ruderal habitat next to football ground (211); Kněždub, Šumárník hill [= Kněždubský háj forest] (197); Malá Vrbka, along a road on Výzkum hill (205).

Material examined. Nedašov, Jalovcová stráž NR (54), 1.ix.2004, 3 ♂♂ 2 ♀♀, 28.vii.2005, 1 ♂, I. Malenovský lgt., 16.viii.2006, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 5.x.2004, 1 ♂, I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR (117), 13.viii.2001, 1 ♂, P. Kment lgt., J. Bryja det. (PKPC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 4 ♂♂, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 14.vii.–5.viii.2008, Mt, 3 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 2.ix.2004, 1 ♂, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area in xerothermic sites but quite rare. **General distribution:** North Mediterranean, extending to central Europe. **Biology and habitat:** On *Melampyrum pratense*, *Artemisia* and other plants. In open forests, forest clearings, on xerothermic slopes with shrubs, and hedges (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. For a long time it was confused with the similar *P. varipes*. First recorded from Moravia by KMENT & BRYJA (2001) and currently known from several localities within the Pannonicum, the Bílé Karpaty Mts. as well as from central Bohemia (KMENT & BRYJA 2001; BRYJA & KMENT 2002, 2006a,b; BRYJA *et al.* 2002; MALENOVSKÝ *et al.* 2011).

***Phytocoris (Ktenocoris) insignis* Reuter, 1876**

(VU)

Material examined. Radějov, Žerotín NM (188), 4.–26.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Additional material examined. MORAVIA: Sedlec, Liščí vrch NR (7266, N 48°47'29" E 16° 41'34"), steppe, 8.ix.1998, 1 ♀, P. Kment det., J. Bryja det. (JBSC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only with a Malaise trap at a single site on the southern boundary of the area. **General distribution:** Eurosiberian, extending to central Europe. **Biology and habitat:** Zoophagous. Living on dwarf shrubs, e.g. *Calluna vulgaris*, *Erica*, *Cytisus scoparius* or *Artemisia campestris*, preferring warm, sunny sites regardless the substrate, from heathland on sandstone to rocky steppe on limestone. Rare (WACHMANN *et al.* 2004, BRYJA & KMENT 2006a,b). **Red List status:** Vulnerable.

Comments. In Moravia recorded so far only from Mikulov (Svatý kopeček NR, 7165) (STEHLÍK 1971, BRYJA & KMENT 2006a), Uherčice (Hochberk, 7066), and Kurdějov (Kamenný vrch hill, 7066) (MALENOVSKÝ *et al.* 2011).

***Phytocoris (Ktenocoris) nowickyi* Fieber, 1870**

= *Phytocoris (Ktenocoris) singeri* Wagner, 1954 (synonymised by RIEGER 2006).

Material examined. Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 1 ♂, P. Kment lgt. (PKPC).

Additional material examined. MORAVIA: Brno – Bystřec, Kuršova street (6765), at light in a flat, 26.vii.2003, 1 ♂, M. Kment lgt. (PKPC). Dolní Věstonice, Komárek cottage (7165), sandy steppe, 170 m a.s.l., 15.viii.1973, 1 ♂, J. L. Stehlík lgt. (MMBC). Pavlov, left bank of Dyje river (7166), meadows, 167 m a.s.l., 14.viii.1973, 1 ♂, J. L. Stehlík lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only at a single site in the central part of the area. **General distribution:** Eurosiberian. **Biology and habitat:** On herbs (e.g. *Rumex conglomeratus*, *Amaranthus retroflexus*, and *Atriplex*) as well as on deciduous trees (*Salix*), preferring humid ruderal sites. Rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded from Přítluky (Přítlucká hora hill, 7166), Mutěnice (70–7168), Bzenec (7069) (STEHLÍK 1971, as *P. singeri*), and the Poodří PLA (Oderský luh floodplain forest, 6274) (BRYJA & KMENT 2001).

***Phytocoris (Ktenocoris) ulmi* (Linnaeus, 1758)**

Material examined. Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 1 spec., M. Horsák & P. Kment lgt., J. Bryja det. (PKPC). Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Petrůvka, U Petrůvky NM (14), 6.viii.1999, 1 ♂ 1 ♀, P. Kment lgt., J. Bryja det. (PKPC); 23.vi.–16.vii.2008, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nedašov, Jalovcová stráž NR (54), 3.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt., J. Bryja det., 12.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 2 ♂♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Slavičín (69), 10.vii.1989, 1 ♂, I. Vavřínová lgt. (MMBC). Popov (71), 6.viii.1980, 3 ♂♂ 2 ♀♀, J. L. Stehlík lgt. (MMBC). Pitín (72), 20.vii.1957, 1 ♀, Ondřej lgt. (MMBC). Bylnice, Na Stráži (77), 11.vii.2006, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Komňa, Nový Dvůr (129), 21.viii.1984, 2 ♀♀, P. Lauterer & J. L. Stehlík lgt. (MMBC). Žitková, Hutě NR (164), 29.v.–19.vi.2007, Mt, 1 ♂, 19.vi.–11.vii.2007, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov (173), 23.vii.1951, 1 ♂, J. L. Stehlík lgt. (MMBC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 2 ♂♂, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 4.–26.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♂ 3 ♀♀, L. Pospíšilová & J. L. Stehlík lgt. (MMBC). Kněždub, Radějovka brook valley below Čertoryje (198), 17.vi.2000, 1 ♀, P. Kment lgt., J. Bryja det. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 14.vii.–12.viii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Radějov, Kútky NR (217), 26.vi.–15.vii.2008, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 25.vi.–15.vii.2009, Mt, 3 ♂♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 1 ♂ 2 ♀♀, I. Malenovský lgt., J. Bryja det. (PKPC); 25.vi.–15.vii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Hryzácké Mlýny (246), 22.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 18.vi.–9.vii.2007, Mt, 2 ♂♂ 1 ♀, 9.vii.–2.viii.2007, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt., 15.vi.–13.vii.2010, Mt, 2 ♂♂, 13.vii.–10.viii.2010, Mt, 2 ♀♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Záhumenec NM (266), 9.vii.–12.viii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 23.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Eurosiberian, extending to Iraq and Iran. **Biology and habitat:** Zoophytophagous. On deciduous trees and shrubs (*Crataegus*, *Prunus spinosa*, *Corylus*, *Rubus*, *Malus*, *Ribes*, *Salix*, *Cytisus scoparius*, etc.), exceptionally on conifers. Common (STEHLÍK 1998a, WACHMANN *et al.* 2004). **Red List status:** –.

***Phytocoris (Ktenocoris) varipes* Boheman, 1852**

Material examined. Nedašov, Jalovcová stráň NR (54), 1.ix.2004, 1 ♂, I. Malenovský lgt., 28.vii.2005, 4 ♂♂ 5 ♀♀, I. Malenovský lgt. (PKPC). Bánov, Skalky hill (125), 21.viii.1984, 1 ♂ 1 ♀, P. Lauterer & J.L. Stehlík lgt. (MMBC). Hrubá Vrbka, football ground (211), 8.vii.2000, 1 ♂, P. Kment lgt., J. Bryja det., 28.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Malá Vrbka, between village and Výzkum hill (205), 16.viii.2000, 2 ♂♂ 2 ♀♀, P. Kment lgt., J. Bryja det. (PKPC). Strání, Záhumenice, cattle pasture (265), 9.viii.2001, 1 ♂, P. Kment lgt., J. Bryja det. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area on xerothermic sites, quite rare. **General distribution:** European, extending to Transcaucasia and Turkmenistan. **Biology and habitat:** On various Asteraceae, Fabaceae, *Rumex*, *Galium*, and Poaceae in xerothermic habitats. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. For a long time it was confused with the similar *P. austriacus*. Only the records based on examination of male genitalia can be considered as reliable (BRYJA & KMENT 2001, BRYJA *et al.* 2002, MALENOVSKÝ *et al.* 2011).

***Phytocoris (Phytocoris) confusus* Reuter, 1896**

Published record. KMENT *et al.* (2005): Poteč, Ploščiny NR (42).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only at one site in the northern part of the area. **General distribution:** North-Mediterranean, extending to central Europe. **Biology and habitat:** On deciduous trees (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. A rare species with scattered occurrence in western, central and southern Europe. In the Czech Republic it has been known only from two localities in Moravia: Náměšť na Hané (63–6468) (STEHLÍK 1961) and the Ploščiny NR in the Bílé Karpaty PLA.

***Phytocoris (Phytocoris) dimidiatus* Kirschbaum, 1856**

Material examined. Lopeník, U Zvonice NM (155), 25.ix.2004, 1 ♀, P. Kment lgt. (PKPC). Žitková, Hutě NR (164), 2.–31.x.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♂, J. L. Stehlík lgt. (MMBC). Javorník, Machová NR (259), 10.ix.–3.x.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected on three sites in the central and southern parts of the area. **General distribution:** West Eurosiberian, extending to Maghreb, Transcaucasia and Kyrgyzstan; introduced to North America. **Biology and habitat:** Zoophytophagous. On stems and thicker branches of deciduous trees, especially old fruit trees (*Malus*, *Pyrus*, *Prunus*), more rarely on *Quercus*, *Tilia*, *Fagus*, *Fraxinus*, *Salix*, etc. (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded only from Brno (Kohoutovice, 6765; Komárov, 6865; Žlutý kopec hill, 6865) and Jeřmaň near Litovel (6267) (STEHLÍK 1971).

***Phytocoris (Phytocoris) hirsutulus* Flor, 1861**

Material examined. Javorník, Jazevčí NNR (232), 5.–24.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected with a Malaise trap at a single site in the southern part of the area. **General distribution:** A central European species, outside the Czech Republic recorded only from Germany, Latvia (KERZHNER & JOSIFOV 1999), Slovenia (FLOREN & GOGALA 2002), and Estonia (COULIANOS 2005). **Biology and habitat:** Living on stems and thick branches of old fruit trees in orchards (*Malus*, *Pyrus*), as well as of *Quercus* and *Fagus*, covered with moss and lichens. Widespread but rare (WACHMANN *et al.* 2004, HRADIL *et al.* 2008). **Red List status:** Not evaluated; a candidate species for a future edition of the national Red List.

Comments. There has been only one record of *P. hirsutulus* for the Czech Republic: Holovousy (5659) in eastern Bohemia (HRADIL *et al.* 2008). Here we report it for the first time from Moravia.

***Phytocoris (Phytocoris) intricatus* Flor, 1861**

Material examined. Strání, Javorina NNR, meadow (270), 15.vii.–6.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, found only on Mt. Velká Javořina by means of a Malaise trap. **General distribution:** Eurosiberian. **Biology and habitat:** Probably zoophytophagous. On conifers, mostly on old spruce trees (*Picea abies*) covered with lichens, but found also on *Chamaecyparis*, *Larix*, and *Pinus*. Rare, preferring higher altitudes (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. For Moravia recorded by STEHLÍK (1971) from Malé Štáhle (6070), the Moravian Karst (between Křtiny and Jedovnice, 6666), and Grešlové Mýto (Mírovec, Špičák, 7061).

***Phytocoris (Phytocoris) longipennis* Flor, 1861**

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 11.vii.2006, 1 ♂ (freshly hatched), P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 12.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 1 ♀, L. Pospíšilová lgt. (MMBC). Petřůvka, Kladenka brook valley (64), 23.vi.–16.vii.2008, Mt, 1 ♀, 4.–25.viii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Popov (71), 6.viii.1980, 1 ♂ 4 ♀♀, J. L. Stehlík lgt. (MMBC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Svatý Štěpán, Chladný vrch NM (93), 4.vii.–11.viii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 18.viii.2004, on *Corylus avellana*, 1 ♀, P. Kment lgt. (PKPC). Lopeník, Mikulčín vrch hill (160), spruce forest margin, 24.vii.2005, 1 ♀, I. Malenovský lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 28.vii.2001, 2 ♂♂, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Javorník, Jazevčí NNR (232), 18.viii.2000, 2 ♀♀, P. Kment lgt., J. Bryja det. (PKPC); 10.ix.2000, 1 ♀, P. Kment & I. Malenovský lgt., J.

Bryja det. (JBSC); 5.–24.viii.2009, Mt, 1 ♂, 14.ix.–22.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 5.–24.viii.2009, Mt, 2 ♂♂, 24.viii.–14.ix.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 15.vi.–13.vii.2010, Mt, 1 ♂, 13.vii.–10.viii.2010, Mt, 1 ♂, 10.viii.–7.ix.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 9.vii.–2.viii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt., 13.vii.–10.viii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 2.–22.viii.2007, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 9.vii.–12.viii.2010, Mt, 21 ♂♂, 12.viii.–9.ix.2010, Mt, 5 ♂♂ 3 ♀♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 15.vii.–6.viii.2009, Mt, 2 ♂♂, 6.–24.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Eurosiberian, introduced to Canada. **Biology and habitat:** Zoophytophagous. On deciduous trees (*Corylus*, *Quercus*, *Fraxinus*, *Salix*, *Crataegus*, *Alnus*, *Prunus*, *Malus*, *Populus*, etc.), preferring humid habitats, especially floodplain forests. Not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Phytocoris (Phytocoris) pini Kirschbaum, 1856

Material examined. Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt., J. Bryja det. (JBSC). Lopeník, Mikulčín vrch hill (160), spruce forest margin, 24.vii.2005, 1 ♂, I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 27.vii.2000, 1 ♂, I. Malenovský lgt., J. Bryja det. (JBSC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, found only in three localities in the central and southern parts of the area. **General distribution:** Eurosiberian. **Biology and habitat:** Mostly zoophagous. On various conifers, especially *Pinus*, at higher altitudes also on *Picea*, rarely on *Larix*, *Abies*, *Juniperus*, or introduced Cupressaceae (*Chamaecyparis*, *Thuja*). Widespread, not rare (STEHLÍK 1998a, WACHMANN *et al.* 2004). **Red List status:** –.

Comments. The Moravian records were summarized by STEHLÍK (1952, 1998a).

Phytocoris (Phytocoris) populi (Linnaeus, 1758)

Material examined. Nová Lhota, Vápenky, left-side tributary of Velička river (252), 24.viii.–16.ix.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only with a Malaise trap at one site in the southern part of the area. **General distribution:** Eurosiberian, introduced to North America. **Biology and habitat:** Mostly zoophagous. On deciduous trees, preferring Rosaceae (*Crataegus*, *Prunus spinosa*, *Sorbus aucuparia*, *Malus*, *Pyrus*, *Prunus domestica*), more rarely on *Alnus*, *Quercus*, *Salix*, *Betula*, *Ulmus*, etc. Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded from the environs of Brünn [= Brno] (6765–66, 6865–66) (SPITZNER 1892), Brno (STEHLÍK 1948), Lednice (Horní les floodplain forest, 7166) (KŘÍSTEK & DOBŠÍK 1985, KŘÍSTEK 1991), and Staré Hamry (Mazák NNR, 6476) (ROHÁČOVÁ 1990a).

***Phytocoris (Phytocoris) reuteri* Saunders, 1876**

Material examined. Petrůvka, U Petrůvky NM (14), 23.vi.–16.vii.2008, Mt, 1 ♂, 4.–25.viii.2008, Mt, 1 ♂, 25.viii.–23.ix.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Poteč, Ploščiny NR (42), 17.viii.2006, 1 ♂, P. Kment lgt. (JBSC). Valašské Klobouky, Bílé potoky NR, meadow (48), forest margin and solitary trees, 14.viii.2006, 1 ♀, P. Kment lgt. (JBSC). Kněždub, Čertoryje NNR, Radějovka brook (204), 12.viii.–9.ix.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Radějov, Kútky NR (217), 15.vii.–5.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 15.vii.–6.viii.2009, Mt, 1 ♂, 24.viii.–14.ix.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Javorník, Machová NR (259), 18.vi.–9.vii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt., 13.vii.–10.viii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** European. **Biology and habitat:** Mostly zoophagous. On deciduous trees, preferring Rosaceae (*Crataegus*, *Prunus spinosa*, *Sorbus aucuparia*, *Malus*, *Pyrus*), more rarely on *Alnus*, *Quercus*, *Salix*, *Betula*, *Ulmus*, etc. Widespread but quite rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded only from Brno (Žlutý kopec hill, 6865), Kuřim (Zlobice NM, 6665), Orlovice (6768), and Němčičky (Nosperk NR, 7067) (STEHLÍK 1971).

***Phytocoris (Phytocoris) tiliae tiliae* (Fabricius, 1777)**

Material examined. Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Svatý Štěpán, Chladný vrch NM (93), 11.viii.–8.ix.2010, Mt, 2 ♂♂, P. Chvojka & J. Macek lgt. (NMPC). Velká nad Veličkou, old cemetery (223), 18.viii.2000, 1 ♂, P. Kment lgt., J. Bryja det. (PKPC). Javorník, village (239), 8.viii.2001, 1 ♀, P. Kment lgt., J. Bryja det. (PKPC). Javorník, Machová NR (259), 2.–22.viii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt., 7.ix.–21.x.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** West Eurosiberian, extending to Maghreb and Anatolia, introduced to North America. **Biology and habitat:** On deciduous trees, mainly *Tilia*, but also *Quercus*, *Corylus*, *Populus*, *Crataegus*, *Sorbus*, *Fagus*, *Malus*, *Acer*, *Fraxinus*, *Salix*, etc. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia known from Brunn [= Brno] (6765–66, 6865–66), Gewitsch [= Jevíčko] (6366), Prossnitz [= Prostějov] (6568) (SPITZNER 1892), Čebín (Čebínka hill, 6664) and Brno (STEHLÍK 1948), the environs of Bruntál (DOBŠÍK 1983), Lednice (Horní les floodplain forest, 7166) (KŘÍSTEK & DOBŠÍK 1985, KŘÍSTEK 1991), the Poodří PLA (Oderský luh floodplain forest, 6274) (BRYJA & KMENT 2001), Hukvaldy (Hradní vrch hill, 6375) (ROHÁČOVÁ 2003b), Staříč (Kamenná NM, 6375) (ROHÁČOVÁ 2007a,b), Kurdějov (Kamenný vrch hill, 7066), and Úvaly (Kameníky, 7266) (MALENOVSKÝ *et al.* 2011).

***Piezocranum simulans* Horváth, 1877**

(VU)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Lopeník, Velký Lopeník Mt. (181), meadow on the summit, 17.vii.1992, on *Galium verum*, *Hypericum*, and *Rumex*, 1 ♂ 5 ♀♀, M. Roháčová lgt. et det. (MBFC).

Additional material examined. MORAVIA: Havraníky, Havranické vřesoviště heathland (7161–62), steppe with *Calluna vulgaris*, 270–280 m a.s.l., 16.vi.1988, 1 ♂ (ma) 5 ♀♀ (br), 310–335 m a.s.l., 16.vi.1984, 3 ♀♀ (br), P. Lauterer lgt. (MMBC). Konice, Suchý vrch hill (7162), steppe, 250–263 m a.s.l., 9.vii.1984, 1 ♀ (br), P. Lauterer lgt., 16.vi.1988, 3 ♂♂ (ma), J. L. Stehlík lgt. (MMBC). Popice – Havraníky, environs of Suťová pole CHPV [= Popické kopečky NM] (7162), steppe slope, 270–370 m a.s.l., 13.vi.1984, 1 ♂ (ma) 2 ♀♀ (br), P. Lauterer lgt. (MMBC). Sedlešovice, Kraví hora hill (7162), steppe and forest-steppe on sands, 290–322 m a.s.l., 9.vii.1984, 1 ♂ (ma) 5 ♀♀ (br, ma), P. Lauterer & J. L. Stehlík lgt. (MMBC). Poštorná, sands at Františkův rybník pond (7267, N 48°43'05" E 16°52'00"), 2.vi.2003, 1 ♀ (br), P. Kment lgt. (PKPC). Hostěradice, hill above the village (7063), 3.vii.1989, 1 ♂ (ma) 1 ♀ (ma) 2 ♀♀ (br), J. L. Stehlík lgt. (MMBC). Rohatec (7169), 30.vi.1986, 1 ♀ (br), J. Vilimová lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected at two sites in the central and southern parts of the area. **General distribution:** South Eurosiberian. **Biology and habitat:** On *Linaria* (*L. vulgaris* and *L. genistifolia*) in xerothermic, open habitats. Rare (WACHMANN *et al.* 2004). **Red List status:** Vulnerable.

Comments. For Moravia so far published only from the Hrubý Jeseník Mts.: Opavice (5870) (STEHLÍK 1952), the Čertoryje NNR in the Bílé Karpaty Mts. (KMENT 2001), Moravský Krumlov (Florián, 6963) and Budkovice (Krumlovský les forest, 6963) (BRYJA *et al.* 2002).

Pilophorus cinnamopterus (Kirschbaum, 1856)

Material examined. Horní Němčí, Drahy NR (117), on *Pinus sylvestris*, 21.ix.2001, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), on *Pinus sylvestris*, 19.vi.2000, 1 ♀, P. Kment lgt., 18.viii.2000, 1 ♂, P. Kment lgt. (PKPC).

Additional material examined. MORAVIA: Křižánky, Kyšperský rybník pond (6362, N 49°41'10" E 16°03'33"), 20.viii.2000, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Brno – Bystrc, housing estate (6765, N 49°13'03" E 16°30'11"), 29.vi.2000, on *Pinus sylvestris*, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Bzenec, Váté písky NNM (7069, N 48°55'37" E 17°16'15"), 29.vi.1999, 1 ♀, M. Horsák lgt., J. Bryja det. (MHBC). Bzenec, Vojenské cvičiště NM (7069, N 48°57'30" E 17°17'26"), 27.vi.1999, 1 ♀, M. Horsák & J. Nerudová lgt., J. Bryja det. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only in two xerothermic sites in the southern part of the area. **General distribution:** Eurosiberian and Central Asiatic, introduced to Canada. **Biology and habitat:** Zoophytophagous. On *Pinus* (e.g. *P. sylvestris*), rarely also on *Picea* and *Abies*, in closed forests as well as on solitary trees. Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded by SPITZNER (1892) without any exact locality, STEHLÍK (1961) from Střemeníčko (Holý vrch hill, 6367) and Mohelno (6863), BRYJA & KMENT (2001) from Suchdol nad Odrou (6373), and ROHÁČOVÁ (2003a) from Kozlovice (Rybníky NR, 6475).

Pilophorus clavatus (Linnaeus, 1767)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 1 ♂, L. Pospíšilová lgt. (MMBC). Popov (71), 6.viii.1980, 1 ♀, J. L. Stehlík lgt. (MMBC). Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♀, P. Kment & I. Malenovský lgt., 21.ix.2002, 1 ♂, P. Kment lgt. (PKPC). Komňa, Nový Dvůr (129), 21.viii.1984, 1 ♂, P. Raus lgt. (MMBC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Kněždubský háj forest (197), on *Populus tremula*, 8.vii.2000, 1 ♀, P. Kment lgt.

(PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 14.vii.–12.viii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Hrubá Vrbka, football ground (211), on *Populus nigra*, 8.vii.2000, 1 ♂, P. Kment lgt. (PKPC). Radějov, Měsíční údolí valley (214), 20.viii.2002, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 14.ix.–22.x.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, towards Suchovské Mlýny, Velička river valley (233), on *Salix* sp., 8.viii.2001, 1 ♀, P. Kment lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 13.vii.–10.viii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 9.vii.–2.viii.2007, Mt, 1 ♀, Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area.

General distribution: Eurosiberian, extending to Syria; North America (perhaps introduced). **Biology and habitat:** Zoophytophagous. On deciduous trees, especially *Salix*, but also on *Quercus*, *Populus*, *Tilia*, *Betula*, *Alnus*, *Corylus*, and rosaceous trees. Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Pilophorus confusus (Kirschbaum, 1856)

Material examined. Velká nad Veličkou, village, Velička river above the weir (224), 19.vi.2000, 4 ♂♂ 3 ♀♀, P. Kment lgt. (PKPC).

Additional material examined. MORAVIA: Ostopovice, Leskava brook surroundings (6865, N 49°09'52" E 16°33'05"), 230 m a.s.l., 7.ix.2004, 1 ♀, I. Malenovský & L. Dembický lgt. (PKPC). Dolní Věstonice (7165), 8.ix.1957, 1 ♂, P. Lauterer lgt., 6.vii.1959, 1 ♀, J. L. Stehlík lgt. (MMBC). Mikulov (7165), city park, 240 m a.s.l., 7.vii.1989, 1 ♀, P. Lauterer lgt. (MMBC). Bulhary (7166), floodplain forest, 12.vii.1990, 1 ♂, P. Lauterer lgt. (MMBC). Břeclav, Pohansko deer game park (7267), 16.vii.2004, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Lanžhot (7267), floodplain forest margin, 18.vi.1969, 1 ♂, J. L. Stehlík lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only at one site in the southern part of the area. **General distribution:** Eurosiberian and Central Asiatic; introduced to North America. **Biology and habitat:** Zoophytophagous. On deciduous trees, especially *Salix*, but also on other genera (e.g. *Populus*, *Alnus*, and *Crataegus*). Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded only by SPITZNER (1892) from Olmütz [= Olomouc] (63–6469), Prossnitz [= Prostějov] (6568), Wischau [= Vyškov] (6767–68), and Brunn [= Brno] (67–6865).

Pilophorus perplexus Douglas et Scott, 1875

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, village (51), 17.viii.2006, 2 ♀♀, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt., 16.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Popov (71), 6.viii.1980, 1 ♀ 1 L, J. L. Stehlík lgt. (MMBC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, village (109), on *Acer platanoides*, 13.viii.2001, 2 ♀♀, P. Kment lgt. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Bánov, Skalky hill (125), 21.viii.1984, 1 ♀, P. Lauterer lgt. (MMBC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♂, P. Kment lgt. (PKPC). Výškovecké Bošačky, meadow and orchard (180), 19.viii.2004, 1 ♂, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 14.vii.–5.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♂, J. L. Stehlík lgt. (MMBC). Malá Vrbka, between village and Výzkum hill (205), on *Salix* sp., 16.viii.2000, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, village (206), on *Tilia* sp., 16.–17.viii.2000, 3 ♂♂, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top

(210), 18.vi.2000, 3 ♀♀, P. Kment lgt. (PKPC). Velká nad Veličkou, below Zahrady pod Hájem NNR (221), 9.ix.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, old cemetery (223), 18.viii.2000, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 2.–25.vi.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Javorník, village (239), linden alley towards cemetery, on *Tilia* sp., 8.viii.2001, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, although most records come from its southern part. **General distribution:** Eurosiberian, extending to Maghreb, Transcaucasia and Iran; introduced to North America. **Biology and habitat:** Zoophytophagous. On various deciduous trees, rarely on shrubs and conifers. Common (STEHLÍK 1998a, WACHMANN *et al.* 2004). **Red List status:** –.

Pinalitus atomarius (Meyer-Dür, 1843)

Material examined. Bylnice, Hložecké údolí valley (23), under scales of the bark of *Abies alba*, 24.xi.2006, 2 ♂♂, O. Konvička lgt. (NMPC). Poteč, Ploštiny NR (42), under scales of the bark of *Abies alba*, 12.iii.2006, 5 ♂♂ 2 ♀♀, O. Konvička lgt., 17.viii.2006, beaten from *Abies alba*, 4 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Svatý Štěpán, below quarry downhill of Okrouhlá NM (98), under scales of the bark of *Abies alba*, 19.xii.2006, 1 ♀, O. Konvička lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only in the northern part of the area. **General distribution:** European, extending to Maghreb and Anatolia. **Biology and habitat:** On conifers (*Picea*, *Pinus*, *Abies*). A boreo-montane species, preferring higher altitudes. Quite rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded “um Brünn” [= in the environs of Brno] (67–6865, 67–6866) (SPITZNER 1892, as *Hadrodema atomaria*), in Třebíč (Terůvky, 6860) (STEHLÍK 1948, as *Lygus atomarius*), and several localities in the district of Vsetín, where overwintering adults were regularly found under the bark of fir trees (*Abies alba*) (SPITZER *et al.* 2010).

Pinalitus cervinus (Herrich-Schaeffer, 1841)

Material examined. Valašské Klobouky, Bílé potoky NR (46, 47, 48), 14.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Nedašov, village (51), on *Buxus sempervirens*, 17.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt., 16.viii.2006, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Brumov, Holý vrch hill (79), 14.vi.1971, 1 ♀, J. L. Stehlík lgt. (MMBC). Bylnice, Lazy NR and environs (82), 12.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt., J. Bryja det. (JBSC). Horní Němčí, village (109), on *Tilia* sp. and *Acer platanoides*, 13.viii.2001, 1 ♂ 3 ♀♀, P. Kment lgt. (PKPC). Horní Němčí, Drahy NR env. (118), 7.vii.1980, 1 ♀, P. Lauterer lgt. (MMBC). Lopeník, U Zvonice NM (155), on *Salix caprea*, 18.viii.2004, 1 ♂, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 11.vii.1998, 3 ♂♂, P. Kment lgt., J. Bryja det. (JBSC, PKBC); 19.viii.2002, 1 ♀, P. Kment lgt. (PKPC); 14.vii.–5.viii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Mandát brook valley below Kútky NR (218), 24.ix.–28.x.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 9.–10.ix.2000, 2 ♂♂, P. Kment & I. Malenovský lgt. (PKPC); 14.ix.–20.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 18.viii.2000, 2 ♀♀, P. Kment lgt. (PKPC); 12.v.–2.vi.2009, Mt, 1 ♀, 15.vii.–5.viii.2009, Mt, 1 ♂, 14.ix.–22.x.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, village (239), on *Buxus sempervirens*, 8.viii.2001, 4 ♀♀, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 12.v.–2.vi.2009, Mt, 1 ♂ 1 ♀, 24.viii.–14.ix.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 8.viii.2001, 1 ♀, P. Kment

Igt. (PKPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 15.vii.–5.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek Igt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 24.v.–15.vi.2010, Mt, 1 ♂ 1 ♀, 13.vii.–10.viii.2010, Mt, 2 ♂♂, 10.viii.–7.ix.2010, Mt, 1 ♂ 1 ♀, 7.ix.–21.x.2010, Mt, 1 ♂, P. Chvojka & J. Macek Igt. (NMPC). Javorník, Machová NR (259), 9.vii.–2.viii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek Igt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 18.vi.–9.vii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek Igt. (NMPC). Strání, Javorina NNR, meadow (270), 15.vii.–6.viii.2009, Mt, 3 ♂♂ 1 ♀, 24.viii.–17.ix.2009, Mt, 1 ♂ 1 ♀, 17.ix.–21.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek Igt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: West Eurosiberian, extending to Maghreb and Anatolia. **Biology and habitat:** On deciduous trees, especially *Tilia*, *Fraxinus*, and *Corylus*, also on *Buxus sempervirens*, rarely on other trees. Common (WACHMANN *et al.* 2004). **Red List status:** –.

***Pinalitus coccineus* (Horváth, 1898)**

(VU)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Kněždub, Čertoryje NNR (202), 19.vi.1980, 8 ♂♂ 12 ♀♀ 6 L, P. Lauterer & J. L. Stehlík Igt. (MMBC). Strání, Záhumenice NM (266), 2.vii.2001, 1 ♀, P. Kment & I. Malenovský Igt. (PKPC).

Additional material examined. MORAVIA: Žarošice (6967), forest margin, 320–330 m a.s.l., 3.vii.1962, 1 ♀, P. Lauterer Igt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only in two localities in the southern part of the area. **General distribution:** Balkan-Pannonian species. Recorded from Austria, Bulgaria, Czech Republic, Greece, Hungary, Serbia, Slovakia, and Ukraine (the Carpathians) (KERZHNER & JOSIFOV 1999, LINNAVUORI 1999, PROTIC 1998). **Biology and habitat:** On *Loranthus europaeus* parasitising on oak trees. Rare (ŠTYS 1970, WACHMANN *et al.* 2004). **Red List status:** Vulnerable.

Comments. In the Czech Republic recorded so far only from southern Moravia: Lednice (71–7266) (ŠTYS 1970), the Čertoryje NNR in the Bílé Karpaty Mts. (KMENT 2001), and Mikulov (Svatý kopeček NR, 7165) (BRYJA & KMENT 2006a).

***Pinalitus rubricatus* (Fallén, 1807)**

Material examined. Popov, Havránkův potok brook valley (71), 6.viii.1980, 1 ♂, J. L. Stehlík Igt. (MMBC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♂ 4 ♀♀, P. Kment & I. Malenovský Igt. (PKPC). Lopeník, Mikulčín vrch hill (160), 17.vii.1964, 2 ♂♂, J. L. Stehlík Igt. (MMBC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), on *Pinus sylvestris*, 19.vi.2000, 1 ♂, P. Kment Igt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** Eurosiberian, extending to Maghreb, introduced to North America. **Biology and habitat:** On conifers, especially *Picea*, but also on *Pinus*, *Abies*, and *Larix*. In mountain regions as well as on conifers planted in lowlands. Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia so far recorded only from the Hrubý Jeseník Mts. (FIEBER 1861, as *Lygus rubricatus* var. α ; SPITZNER 1892; STEHLÍK 1952), Prossnitz [= Prostějov] (6568), Lultsch [= Luleč] (6767) (SPITZNER 1892), the Rychlebské hory Mts. (ŠTYS

1959), the Poodří PLA (BRYJA & KMENT 2001), and the Moravskoslezské Beskydy Mts. (ROHÁČOVÁ 2001a, 2003a). Also known from the Polish side of the Gl. Schneeberg [= Mt. Králický Sněžník] (5766–67) (POLENTZ 1944, as *Lygus rubricatus*).

***Pithanus maerkelii* (Herrich-Schaeffer, 1838)**

Material examined. Strání, Javorina NNR, meadow (270), 4.vii.2001, 1 ♂ (mi), P. Kment & I. Malenovský lgt. (PKPC).

Additional material examined. MORAVIA: Vranov nad Dyjí, 1 km W towards Lančov (7060), 400–415 m a.s.l., forest margin and mesophilous meadow, 28.ix.1976, 1 ♀, J. L. Stehlík lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected in one locality, on Mt. Velká Javořina. **General distribution:** West Eurosiberian, introduced to North America. **Biology and habitat:** On Poaceae (*Agrostis*, *Festuca*, *Nardus*, *Deschampsia*), Cyperaceae (*Carex*, *Scirpus*), and Juncaceae (*Juncus*) in dry to humid habitats such as open grassland, forest clearings and forest margins. Rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded from Strážnice (70–7169), Bzenec (7069) (HOBERLANDT 1947), Poušov near Třebíč (6760), Brno-Bystrc (6765) (STEHLÍK 1945a), Pouzdřany (7065) (STEHLÍK 1948), Královský potok brook (precise location unknown) in the Hrubý Jeseník Mts. (STEHLÍK 1952), Nové Vilémovice (5667) and Javorník (Račí údolí valley, 5667) in the Rychlebské hory Mts. (ŠTYS 1959), Bernartice nad Odrou (6373) (BRYJA & KMENT 2001), Hodějice (Rašovický zlom – Chobot, 6867) (MALENOVSKÝ *et al.* 2011), and Krásná pod Lysou horou (Obidová NM, 6477) (ROHÁČOVÁ 2011). Also known from the Polish side of the Gl. Schneeberg [= Mt. Králický Sněžník] (5766–67) (POLENTZ 1944).

***Placochilus seladonicus seladonicus* (Fallén, 1807) (VU) (Fig. 6)**

Material examined. Nedašov, Jalovcová stráž NR (54), 28.vii.2005, 3 ♀♀, I. Malenovský lgt., 12.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 1 ♂, L. Pospíšilová lgt. (MMBC). Popov, Havránkův potok brook valley (71), 6.viii.1980, 1 ♀, L. Pospíšilová lgt. (MMBC). Bylnice, Na Stráži (77), 11.vii.2006, 2 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Bánov, Skalky hill (125), 21.viii.1984, 2 ♂♂ 6 ♀♀, P. Lauterer lgt. (MMBC). Lopeník, U Zvonice NM (155), 27.vi.2004, 1 ♂ (freshly hatched), I. Malenovský lgt. (PKPC). Žitková (163), 11.vi.1999, 1 ♂, K. Hradil lgt. et det. (KHMC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 1 ♂, P. Kment lgt. (PKPC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♂ 3 ♀♀, J. L. Stehlík lgt. (MMBC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 13.vii.1998, 1 ♀, P. Kment lgt., J. Bryja det. (PKPC). Suchovské Mlýny, meadow (227), 23.vi.2004, 2 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 1 ♂ 2 ♀♀, I. Malenovský lgt., J. Bryja det. (JBSC, PKPC); 29.vi.2001, 3 ♂♂, P. Kment lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 29.vi.2001, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Nová Lhota, Fojtické Mlýny (245), 24.vii.1980, 11 ♂♂ 13 ♀♀ 1 spec. (freshly hatched), L. Pospíšilová lgt. (MMBC). Javorník, Machová NR (259), 9.vii.1998, 2 ♀♀, P. Kment lgt., J. Bryja det. (JBSC, PKPC); 28.v.–18.vi.2007, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 2.vii.2001, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, a characteristic species for species-rich meadows. **General distribution:** West

Eurosiberian, extending to Anatolia and Iran. **Biology and habitat:** On *Knautia arvensis* and *Scabiosa* in open xerothermic habitats on sandy as well as limestone substrates (WACHMANN *et al.* 2004). **Red List status:** Vulnerable.

Comments. In Moravia characteristic for species-rich plant communities, especially in dry to mesic meadows. However, its distribution here is still poorly known with only few published records (see MALENOVSKÝ *et al.* 2011).

Plagiognathus (Plagiognathus) arbustorum arbustorum (Fabricius, 1794)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 6.viii.1999, 2 ♀♀, P. Kment lgt., J. Bryja det. (PKPC); 3.–23.vi.2008, Mt, 1 ♀, 23.vi.–16.vii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 7 ♂♂ 6 ♀♀, M. Horsák & P. Kment lgt. (MHBC). Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 3 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt., J. Bryja revid. (MUBC, PKPC). Valašské Klobouky, Javorůvky NR (32), 2.vii.1999, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Královec hill (33), 17.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, U Rybníků (38), 2.vii.1999, 1 ♂ 2 ♀♀, M. Horsák & P. Kment lgt. (PKPC). Poteč, Ploščiny NR (42), 4.vii.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., 1.vi.2002, 3 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Královec – Ploščiny ridge (43), 4.vii.1999, 4 ♂♂ 6 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Brumov, Uhličky (44), 28.vii.2005, 20 ♂♂ 11 ♀♀, P. Kment lgt. (PKPC). Návojná, Vrchy hill (45), 12.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 30.vi.1999, 6 ♂♂ 2 ♀♀, M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráň NR (54), 3.vii.1999, 2 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55) and surrounding pastures (53), 3.vii.1999, 2 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 1 ♂ 2 ♀♀, L. Pospíšilová lgt. (MMBC). Slavičín (69), 10.vii.1989, 1 ♀, I. Vavřínová lgt. (MMBC). Štítná nad Vláří, south-exposed slopes N of the village (74), 10.vii.2006, 2 ♀♀, O. Konvička lgt. (NMPC). Brumov, Kloboucká street (76), 30.vi.2004, 3 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Brumov, Holý vrch hill (79), 14.vi.1971, 1 ♂, J. L. Stehlík lgt. (MMBC). Bylničky, Tarandové hill (80), 24.vi.1982, 6 ♀♀, P. Lauterer lgt. (MMBC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 3 ♀♀, P. Kment & M. Omesová lgt. (PKPC). Bylnice, railway station environs (83), 1.vii.1999, 4 ♂♂ 5 ♀♀, P. Kment & M. Omesová lgt., J. Bryja revid. (MHBC, MUBC, PKPC). Sidonie, Sidonie NR (87), 5.vii.–11.viii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Sidonie, Vlárka brook valley (92), 8.ix.1981, 3 ♀♀, L. Pospíšilová lgt. (MMBC). Blatnička, Milejovské louky meadows (104), 24.v.2009, 5 ♂♂ 3 ♀♀, P. Baňar lgt. et det. (MMBC). Boršice u Blatnice, Boršický potok brook valley (105), 16.viii.1984, 1 ♀, J. L. Stehlík lgt. (MMBC). Korytná, Březí (113), 5.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, between village and Drahy NR (114), 13.viii.2001, 3 ♀♀, P. Kment lgt. (PKPC). Korytná (115), 23.vii.1951, 3 ♂♂ 3 ♀♀, J. L. Stehlík lgt. (MMBC). Horní Němčí, Drahy NR (117), 30.vi.2001, 3 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Lesná hill (123), 24.vii.1980, 1 ♀, J. L. Stehlík lgt. (MMBC). Bánov, Skalky hill (125), 21.viii.1984, 1 ♂ 3 ♀♀, P. Lauterer & P. Raus lgt. (MMBC). Komňa, Lom Rasová NM (128), 5.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Komňa, Nový Dvůr (129), 21.viii.1984, 3 ♂♂ 3 ♀♀, P. Raus lgt. (MMBC). Strání, Obecnice hill, at transmission tower (144), 2.vii.2001, 5 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Strání, Obecnice hill, S slope (145), 2.vii.2001, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Strání, Důbrava hill (150), 7.vii.1980, 1 ♀, P. Lauterer lgt. (MMBC). Lopeník, U Zvonice NM (155), 24.vii.2005, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Lopeník, Mikulčín vrch hill (160), spruce forest margin, 24.vii.2005, 1 ♂, I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 19.vi.–11.vii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 12 ♂♂ 16 ♀♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 3 ♂♂ 4 ♀♀, P. Kment lgt. (PKPC). Vápenice, V Krátkých (170), 6.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Výškovec, Pod Hřibovňou NM (176), 24.vii.2005, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Výškovecké Bošačky, meadow and orchard (180), 27.vi.2004, 1 ♂ 1 ♀, I. Malenovský lgt., 19.viii.2004, 2 ♀♀, P. Kment lgt. (PKPC). Radějov,

Holý vrch hill (189), 4.vii.1977, 3 ♂♂ 4 ♀♀, L. Pospíšilová lgt., 1 ♀, J. L. Stehlík lgt. (MMBC). Kněždub, Kněždubský háj forest (197), 28.vii.2001, 2 ♂♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Kněždub, Kněždubský háj forest (197) and Radějovka brook valley (198), 17.vi.2000, 13 ♂♂ 13 ♀♀ (1 ♂ freshly hatched), 8.vii.2000, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 22.vi.2001, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 14.vii.–12.viii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, Výzkum hill, restored grassland (208), 25.v.2000, 1 ♂, P. Kment lgt., 18.vi.2000, 28 ♂♂ 11 ♀♀, I. Malenovský lgt., 22.vi.2001, 1 ♂ 5 ♀♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 2 ♂♂ 4 ♀♀, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 19.vi.2000, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Radějov, Měsíční údolí valley (214), along road to Radějov, 16.viii.2009, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 5 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 14 ♂♂ 4 ♀♀, I. Malenovský lgt. (PKPC); 2.–25.vi.2009, Mt, 1 ♀, 25.vi.–15.vii.2009, Mt, 2 ♂♂ 3 ♀♀, 15.vii.–5.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, towards Suchovské Mlýny, Velička river valley (233), 29.vi.2001, 1 ♀, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 25.vi.–15.vii.2009, Mt, 1 ♂, 15.vii.–5.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Hryzlácké Mlýny (246), 3.–22.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 15.vi.–13.vii.2010, Mt, 2 ♀♀, 13.vii.–10.viii.2010, Mt, 2 ♀♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 18.vi.–9.vii.2007, Mt, 1 ♂ 1 ♀, 9.vii.–2.viii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt., 15.vi.–13.vii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 28.v.–18.vi.2007, Mt, 4 ♂♂ 2 ♀♀, 18.vi.–9.vii.2007, Mt, 2 ♂♂ 1 ♀♀, 9.vii.–2.viii.2007, Mt, 4 ♂♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 2.vii.2001, 4 ♂♂ 5 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 15.vi.–9.vii.2010, Mt, 1 ♂ 3 ♀♀, 9.vii.–12.viii.2010, Mt, 4 ♀♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 4.vii.2001, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 15.vii.–6.viii.2009, Mt, 2 ♂♂ 3 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Eurosiberian and Central Asiatic, introduced to North America.

Biology and habitat: A polyphagous zoophytophage. On various herbs (Asteraceae, Lamiaceae, Urticaceae, Fabaceae, Rosaceae, Apiaceae, etc.) in dry to humid habitats, preferring shaded or half-shaded places on nutrient-rich substrates, such as alluvial meadows and ruderal sites. Very common (WACHMANN *et al.* 2004). **Red List status:** –.

Plagiognathus (Plagiognathus) bipunctatus Reuter, 1883

Material examined. Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 25.v.2000, 4 ♂♂ 4 ♀♀, P. Kment & I. Malenovský lgt., J. Bryja det. (JBSC, PKPC); 18.vi.2000, 3 ♂♂ 1 ♀, 8.vii.2000, 1 ♂, 27.vii.2000, 1 ♂, I. Malenovský lgt., 16.viii.2000, 2 ♀♀, 22.vi.2001, 2 ♀♀, P. Kment lgt., 28.vii.2001, 2 ♂♂ 2 ♀♀, P. Kment & I. Malenovský lgt., 27.vi.2002, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC).

Additional material examined. MORAVIA: Bílovice nad Svitavou, Hádecká planinka NNR (6766), 9.ix.1997, 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Poštorná, sands at Františkův rybník pond (7267, N 48°43'05" E 16°52'00"), 29.v.1999, 1 ♀, M. Horsák, P. Kment & J. Nerudová lgt., J. Bryja det. (JBSC); 30.vi.2000, 1 ♀, P. Kment lgt. (PKPC); 2.vi.2003, 1 ♀, P. Kment lgt., J. Bryja det. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only at two sites in the southern part of the area. **General distribution:** West Palaearctic (except North Africa). **Biology and habitat:** A polyphagous phytophage. On various herbs (e.g. *Salvia*, *Marrubium*, *Verbascum*, and *Echium*) in open xerothermic habitats, often in ruderal sites. Quite rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded only from Brno (Stránská skála hill, 6866) (STEHLÍK & HOBERLANDT 1954), ruderal vegetation in Brno (6765–66, 6865–66) (RAUS 1990), Rokytná (6963) (BRYJA *et al.* 2002), Mikulov (Svatý kopeček NR, 7165) (BRYJA & KMENT 2006a), Kurdějov (Kamenný vrch hill, 7066), and Sedlec (Skalky, 7266) (MALENOVSKÝ *et al.* 2011).

***Plagiognathus (Plagiognathus) chrysanthemii* (Wolff, 1804)**

Published records. KMENT (2001): Kněždub, Čertoryje NNR (202). KMENT & MALENOVSKÝ (2008): Nedašov, Jalovcová stráž NR (54); Strání, Záhumenice NM (266).

Material examined. Petrůvka, U Petrůvky NM (14), 6.viii.1999, 1 ♂, P. Kment lgt., J. Bryja det. (PKPC); 16.vii.–4.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 20 ♂♂ 10 ♀♀, M. Horsák & P. Kment lgt. (MUBC). Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 11 ♂♂ 4 ♀♀, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Valašské Klobouky, Javorůvky NR (32), 2.vii.1999, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Královec hill (33), 17.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Valašské Klobouky, U Rybníků (38), 2.vii.1999, 1 ♂, M. Horsák & P. Kment lgt. (PKPC). Poteč, Ploštiny NR (42), 4.vii.1999, 2 ♂♂, P. Kment & I. Malenovský lgt., 1.vi.2002, 1 ♂, I. Malenovský lgt. (PKPC). Valašské Klobouky, Královec – Ploštiny ridge (43), 4.vii.1999, 2 ♂♂ 4 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Brumov, Uhlíčky (44), 1.ix.2004, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 30.vi.1999, 2 ♂♂, M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 5 ♂♂ 4 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 3.vii.1999, 23 ♂♂ 12 ♀♀, P. Kment & I. Malenovský lgt., 1.ix.2004, 1 ♂ 3 ♀♀, 28.vii.2005, 13 ♂♂ 6 ♀♀, I. Malenovský lgt., 12.vii.2006, 4 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 5 ♂♂ 7 ♀♀, P. Kment & I. Malenovský lgt., 16.viii.2006, 3 ♀♀, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55) and surrounding pastures (53), 3.vii.1999, 3 ♂♂ 3 ♀♀ (1 ♀ freshly hatched), P. Kment & I. Malenovský lgt. (PKPC). Nedašov, meadow E of Jalovcová stráž NR (59), 30.vi.2004, 9 ♂♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 2 ♂♂ 5 ♀♀, L. Pospíšilová lgt. (MMBC). Slavičín (69), 10.vii.1989, 1 ♂, I. Vavřínová lgt. (MMBC). Popov, Havránkův potok brook valley (71), 6.viii.1980, 1 ♀, J. L. Stehlík lgt. (MMBC). Štítná nad Vláří, south-exposed slopes N of the village (74), 10.vii.2006, 3 ♀♀, O. Konvička lgt. (NMPC). Brumov, Kloboucká street (76), 30.vi.2004, 1 ♂, I. Malenovský lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 5 ♂♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Bylničky, Tarandov hill (80), 24.vi.1982, 10 ♂♂ 2 ♀♀, P. Lauterer lgt. (MMBC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 5 ♂♂ 4 ♀♀, P. Kment & M. Omesová lgt. (PKPC). Bylnice, railway station environs (83), 1.vii.1999, 7 ♂♂ 4 ♀♀, P. Kment & M. Omesová lgt., J. Bryja revid., 11.ix.1999, 1. Malenovský & T. Vymyslický lgt., J. Bryja revid. (PKPC). Nedašov, Pod Cigánem NM (91), 1.ix.2004, 1 ♂ 3 ♀♀, 28.vii.2005, 8 ♂♂ 7 ♀♀, I. Malenovský lgt. (PKPC). Lipov, Pešunk (100), 27.vi.2008, 1 ♂ 2 ♀♀, 10.vii.2009, 1 ♀, Z. Malinka lgt. (ZMOC). Blatnička, Milejovské louky meadows (104), 24.v.2009, 6 ♂♂ 2 ♀♀, 11.vii.2009, 5 ♂♂ 3 ♀♀, P. Baňar lgt. et det. (MMBC). Boršice u Blatnice, Boršický potok brook valley (105), 16.viii.1984, 1 ♂ 3 ♀♀, P. Lauterer lgt. (MMBC). Korytná (115), 23.vii.1951, 2 ♀♀, J. L. Stehlík lgt. (MMBC). Horní Němčí, Drahy NR (117), 30.vi.2001, 266 ♂♂ 151 ♀♀, P. Kment & I. Malenovský lgt., 13.viii.2001, 3 ♂♂ 3 ♀♀, P. Kment lgt., 21.vii.2002, 14 ♂♂ 32 ♀♀, I. Malenovský lgt. (PKPC); 13.viii.2001, on *Echium vulgare* along the road, 1 ♂, J. Bryja det. (PKPC). Horní Němčí, Drahy NR env. (118), 7.vii.1980, 1 ♂, P. Lauterer lgt. (MMBC). Horní Němčí, Vinohrádky (121), 30.vi.2001, 6 ♂♂ 1 ♀, I. Malenovský lgt., 13.viii.2001, 2 ♂♂, P. Kment lgt., 20.vii.2002, 1 ♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Horní Němčí, Lesná hill (123), 23.vii.1951, 2 ♂♂, J. L. Stehlík lgt. (MMBC). Bánov, Skalky hill (125), 21.viii.1984, 2 ♂♂ 3 ♀♀, P. Lauterer & P. Raus lgt. (MMBC). Komňa, Lom Rasová NM (128), 5.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Komňa, Nový Dvůr (129), 21.viii.1984, 1 ♂, J. L. Stehlík lgt. (MMBC). Strání, Obecnice hill, at transmission tower (144), 23.v.2002, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Strání, Obecnice hill, S slope (145), 2.vii.2001, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Strání, Důbrava [= Důbrava hill] (150), 7.vii.1980, 1 ♂, L. Pospíšilová lgt. (MMBC). Lopeník, U Zvonice NM (155), 24.vii.2005, 41 ♂♂ 55 ♀♀, I. Malenovský lgt., 3.ix.2005, 1 ♀, P. Kment lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 18.viii.2004, 3 ♂♂ 8 ♀♀, P. Kment

lgt., 24.vii.2005, 21 ♂♂ 11 ♀♀, I. Malenovský lgt. (PKPC). Lopeník, Mikulčín vrch hill (160), 17.vii.1964, 2 ♀♀, L. Pospíšilová lgt. (MMBC); 24.vii.2005, spruce forest margin, 1 ♂, I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 29.v.–19.vi.2007, Mt, 2 ♂♂ 1 ♀, 19.vi.–11.vii.2007, Mt, 1 ♂, 11.–31.vii.2007, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 16 ♂♂, P. Kment lgt. (PKPC). Vápenice, V Krátkých (170), 6.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Starý Hrozenkov (173), 4.viii.1962, 1 ♀, P. Lauterer lgt. (MMBC). Výškovce, Pod Hřibovňou NM (176), 28.vi.2004, 6 ♂♂, I. Malenovský lgt., 24.vii.2005, 69 ♂♂ 94 ♀♀, P. Kment lgt., 3.ix.2005, 2 ♀♀, I. Malenovský lgt. (PKPC). Výškovecké Bošačky, cattle pasture (179), 27.vi.2004, 22 ♂♂ 7 ♀♀, I. Malenovský lgt., 24.vii.2005, 32 ♂♂ 28 ♀♀, P. Kment lgt. (PKPC). Výškovecké Bošačky, meadow and orchard (180), 27.vi.2004, 2 ♂♂ 3 ♀♀, I. Malenovský lgt., 19.viii.2004, 1 ♂ 1 ♀, 24.vii.2005, 17 ♂♂ 15 ♀♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 11.vii.1998, 3 ♂♂, P. Kment lgt. (PKBC); 4.–26.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♂, J. L. Stehlík lgt. (MMBC). Kněždub, Kněždubský háj forest (197) and Radějovka brook valley (198), 17.vi.2000, 1 ♂, 8.vii.2000, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 27.vi.2002, 4 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 18.vi.2000, 95 ♂♂ 67 ♀♀, I. Malenovský lgt., 8.vii.2000, 1 ♂ 3 ♀♀, P. Kment lgt., 27.vii.2000, 3 ♀♀, P. Kment & I. Malenovský lgt., 4.viii.2000, 1 ♂ 1 ♀, P. Kment lgt., 22.vi.2001, 22 ♂♂ 6 ♀♀, 28.vii.2001, 18 ♂♂ 28 ♀♀, P. Kment & I. Malenovský lgt., 27.vi.2002, 41 ♂♂ 37 ♀♀, I. Malenovský lgt. (PKPC). Hrubá Vrbka, football ground (211), 19.vi.2000, 1 ♂, P. Kment & I. Malenovský lgt., 8.vii.2000, 1 ♀, P. Kment lgt., J. Bryja det., 28.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Hrubá Vrbka, village (212), 27.–29.vi.2008, 2 ♂♂, Z. Malinka lgt. (ZMOC). Velká nad Veličkou, below Zahrady pod Hájem NNR (221), 19.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 14 ♂♂ 13 ♀♀, P. Kment lgt. (PKPC); 12.v.–2.vi.2009, Mt, 1 ♂, 2.–25.vi.2009, Mt, 3 ♂♂ 4 ♀♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 16.viii.2004, on *Mentha longifolia*, 1 ♂, P. Kment lgt., 27.vii.2005, 7 ♂♂, I. Malenovský lgt. (PKPC). Suchovské Mlýny, meadow (227), 23.vi.2004, 7 ♂♂ 2 ♀♀, 27.vii.2005, 36 ♂♂ 50 ♀♀, I. Malenovský lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 16.viii.2004, spring fen, 2 ♀♀, P. Kment lgt., 27.vii.2005, 5 ♂♂, I. Malenovský lgt. (PKPC). Trnovský Mlýn, meadow (229), 27.vii.2005, 7 ♂♂ 4 ♀♀, I. Malenovský lgt. (PKPC). Javorník, village (239), 8.viii.2001, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 29 ♂♂ 15 ♀♀, I. Malenovský lgt., 18.viii.2000, 1 ♀, 29.vi.2001, 1 ♂, P. Kment lgt. (PKPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 1 ♂ 2 ♀♀, P. Lauterer lgt. (MMBC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 15.vii.–5.viii.2009, Mt, 6 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 42 ♂♂ 23 ♀♀, 17.vii.2002, 4 ♂♂ 2 ♀♀, 23.vi.2004, 2 ♂♂ 1 ♀, 27.vii.2005, 8 ♂♂ 6 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 29.vi.2001, 59 ♂♂ 17 ♀♀, 8.viii.2001, 1 ♀, P. Kment lgt., 24.v.2002, 3 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt., 23.vi.2004, 22 ♂♂ 7 ♀♀, I. Malenovský lgt. (PKPC). Nová Lhota, Fojtické Mlýny (245), 7.vii.1980, 1 ♂, L. Pospíšilová lgt. (MMBC). Nová Lhota, Hryzlácké Mlýny (246), 3.–22.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 9.vii.1998, 2 ♂♂ 1 ♀, P. Kment lgt., J. Bryja det. (PKPC); 8.–28.v.2007, Mt, 1 ♂, 28.v.–18.vi.2007, Mt, 1 ♂ 1 ♀, 18.vi.–9.vii.2007, Mt, 4 ♂♂ 2 ♀♀, 9.vii.–2.viii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt., 24.v.–15.vi.2010, Mt, 1 ♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 18.vi.–9.vii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 2.vii.2001, 136 ♂♂ 78 ♀♀, I. Malenovský lgt., 9.viii.2001, 6 ♂♂ 4 ♀♀, P. Kment lgt., 20.vii.2002, 7 ♂♂ 11 ♀♀, I. Malenovský lgt. (PKPC). Strání, Záhumenice NM (266), 2.vii.2001, 11 ♂♂ 10 ♀♀, P. Kment & I. Malenovský lgt., 9.viii.2001, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Strání, Javorina NNR, meadow (270), 4.vii.2001, 3 ♂♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 15.vii.–6.viii.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Holopalaeartic (except North Africa), introduced to North America.

Biology and habitat: A polyphagous phytophage. On various herbs (especially Asteraceae and Fabaceae) in dry to slightly humid, open habitats, regardless of substrate.

Very common (WACHMANN *et al.* 2004). **Red List status:** –.

***Plagiognathus (Plagiognathus) fulvipennis* (Kirschbaum, 1856)**

Material examined. Radějov, Žerotín NM (188), 26.vi.–14.vii.2008, Mt, 1 ♂ 1 ♀ (NMPC). Malá Vrbka, between village and Výzkum hill (205), 18.vi.2000, 2 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only in two localities in the southern part of the area. **General distribution:** North Mediterranean, extending to central Europe and Iran. **Biology and habitat:** On Boraginaceae, especially on *Echium vulgare*, inhabiting xerothermic habitats, mostly on sandy grounds. Rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. Its known distribution in Moravia was reviewed by MALENOVSKÝ *et al.* (2011).

***Plagiognathus (Plagiognathus) vitellinus* (Scholz, 1847)**

Material examined. Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 2 ♂♂, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Valašské Klobouky, Javorůvky NR (32), on *Picea abies*, 14.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Bylničky, Tarandové hill (80), 24.vi.1982, 1 ♂, P. Lauterer lgt. (MMBC). Svätý Štěpán, Chladný vrch NM (93), 16.vi.–4.vii.2010, Mt, 2 ♂♂, P. Chvojka & J. Macek lgt. (NMPC). Horní Němčí, Lesná hill (123), 24.vii.1980, 3 ♂♂ 1 ♀, J. L. Stehlík lgt. (MMBC). Strání, village (147), 2.vii.2001, 1 ♂, P. Kment lgt. (PKPC). Radějov, Holý vrch hill (189), 4.vii.1977, 3 ♂♂ 3 ♀♀, L. Pospíšilová & J. L. Stehlík lgt. (MMBC). Kněždub, Radějovka brook valley below Čertoryje (198), 17.vi.2000, on *Larix decidua*, 1 ♀, 22.vi.2001, on *Picea abies*, 3 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC). Radějov, Kútky NR (217), 4.–26.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, village (222), at railway station, on *Picea abies*, 29.vi.2001, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), on *Larix decidua*, 19.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Javorník, Jazevečí NNR (232), 2.–25.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, towards Suchovské Mlýny, Velička river valley (233), 29.vi.2001, on conifers, 2 ♂♂ 3 ♀♀, P. Kment lgt. (PKPC). Nová Lhota, Fojtické Mlýny (245), 7.vii.1980, 2 ♂♂ 2 ♀♀, L. Pospíšilová lgt. (MMBC). Javorník, Výzkum hill (258), 10.vi.1982, 1 ♀, J. L. Stehlík lgt. (MMBC). Strání, Záhumenice NM (266), 15.vi.–9.vii.2010, Mt, 4 ♂♂, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** Eurosiberian; introduced to North America. **Biology and habitat:** Zoophytophagous. On conifers, especially on *Picea abies* and *Larix decidua*, rarely on *Pinus sylvestris*, in closed woodland as well as on solitary trees. Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

***Plesiodema pinetella* (Zetterstedt, 1828)**

Material examined. Poteč, Ploščiny NR (42), 1.vi.2002, 1 ♂, I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR (117), 23.v.2002, 1 ♂, P. Kment & I. Malenovský lgt. (JBSC). Kněždub, Radějovka brook valley below Čertoryje (198), on *Picea abies* and *Pinus sylvestris*, 22.vi.2001, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 12.v.–2.vi.2009, Mt, 3 ♂♂ 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC).

Additional material examined. MORAVIA: Bransouze, along road to Chlum (6660), on *Pinus sylvestris*, 5.vi.2008, 2 ♀♀, P. Kment lgt. (PKPC). Nevojice (6868), 29.v.1983, 1 ♀, J. Meduna lgt. (MMBC). Ohrozim, Čubernice (6568), pine forest on S exposed slope, 290–330 m a.s.l., 15.vi.1982, 2 ♀♀, P. Lauterer lgt., J. Bryja det. (MMBC). Poštorná, Boří Les from railway station towards Františkův rybník pond (7267), 29.v.1999, 1 ♀, M. Horsák, P. Kment & J. Nerudová lgt., J. Bryja det. (JBSC). Poštorná, sands at Františkův rybník pond (7267, N 48°43'05" E 16°52'00"), 2.vi.2003, 1 ♀, P. Kment lgt. et det., J. Bryja revid. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, although widespread throughout the area. **General distribution:** Eurosiberian, extending to Maghreb. **Biology and habitat:** Possibly zoophytophagous. On conifers, mostly *Pinus* (*P. sylvestris*, *P. nigra*, *P. mugo*), less frequently on *Picea* and *Larix*. Widespread, but quite rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia known only from Jedovnice (6666) so far (STEHLÍK 1979).

Polymerus (Poeciloscytus) microphthalmus (Wagner, 1951)

Published records. KMENT & BRYJA (2001): Petrůvka, U Petrůvky NM (14). BRYJA & KMENT (2002): Hrubá Vrbka, football ground (211); Javorník, Jazevěčí NNR (232); Velká nad Veličkou, shore growth of the Velička river in the village (224).

Material examined. Petrůvka, U Petrůvky NM (14), 3.–23.vi.2008, Mt, 1 ♂, 16.vii.–4.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Brumov, Kloboucká street (76), 2.ix.2004, 3 ♂♂, 28.v.2005, 3 ♂♂ 1 ♀, I. Malenovský lgt., 4.ix.2005, 1 ♂, P. Kment lgt. (PKPC). Bylnice, railway station environs (83), 11.ix.1999, 1 ♂ 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Žitková, Hutě NR (164), 9.–29.v.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Vyškovecké Bošačky, cattle pasture (179), 24.vii.2005, 1 ♂, P. Kment lgt. (PKPC). Vyškovecké Bošačky, meadow and orchard (180), 19.viii.2004, 3 ♂♂ 3 ♀♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 28.vii.2001, 1 ♂, P. Kment lgt., J. Bryja det. (PKPC). Hrubá Vrbka, football ground (211), 8.vii.2000, 1 ♂ 3 ♀♀, P. Kment lgt., J. Bryja det., 16.viii.2000, 1 ♂, P. Kment lgt. et det., 20.ix.2001, 1 ♀, P. Kment lgt., J. Bryja det. (PKPC). Velká nad Veličkou, village, Velička river above the weir (224), 9.ix.2000, 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Suchovské Mlýny, sheep pasture (226), 26.v.2005, 2 ♂♂, I. Malenovský lgt. (PKPC). Javorník, Jazevěčí NNR (232), 15.vii.1998, 2 ♀♀, I. Malenovský & M. Omesová lgt., J. Bryja det. as *P. palustris*, P. Kment revid. (PKPC); 18.viii.2000, 1 ♂, 29.vi.2001, 1 ♀, P. Kment lgt., J. Bryja det. (PKPC); 12.v.–2.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 8.viii.2001, 1 ♂, P. Kment lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 2.–22.viii.2007, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** Eurosiberian. **Biology and habitat:** On *Galium verum* and *G. mollugo* in dry as well as humid habitats (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. First recorded for the Czech Republic from the Bílé Karpaty Mts. by KMENT & BRYJA (2001), later followed by additional records from both Moravia and Bohemia (BRYJA & KMENT 2002, MALENOVSKÝ *et al.* 2011). The specimens were identified using the coloration, morphometric characters, and structure of the aedeagus according to RINNE (1989).

Polymerus (Poeciloscytus) palustris (Reuter, 1907)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Vápenice, V Krátkých (170), 6.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only in two sites in the central and southern parts of the area. **General distribution:** Eurosiberian. **Biology and habitat:** On *Galium* (*G. palustre*, *G. boreale*, *G. aparine*) in open as well as shaded, humid habitats (e.g. wet meadows, swamps). Widespread, but rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia known from Strážnice (HOBERLANDT 1947), Senorady (6863), Horákov u Brna (6766), Radostice (6864), Střelice (6865) (STEHLÍK 1948), the Poodří PLA (Oderský luh floodplain forest, 6275) (BRYJA & KMENT 2001), and Kozlovice (Rybníky NR, 6475) (ROHÁČOVÁ 2003a). The specimen was identified using the coloration and morphometric characters according to RINNE (1989).

Polymerus (Poeciloscytus) unifasciatus (Fabricius, 1794)

Published records. KMENT (2001): Kněždub, Čertoryje NNR (202). KMENT & MALENOVSKÝ (2008): Nedašov, Jalovcová stráž NR (54).

Material examined. Petrůvka, U Petrůvky NM (14), 6.viii.1999, 1 ♂, P. Kment lgt., J. Bryja det. (PKPC); 3.–23.vi.2008, Mt, 2 ♂♂, 23.vi.–16.vii.2008, Mt, 2 ♂♂, 4.–25.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 9.ix.1999, 1 ♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Nedašov, Jalovcová stráž NR (54), 3.vii.1999, 1 ♂ 4 ♀♀, P. Kment & I. Malenovský lgt., 30.vi.2004, 1 ♀, 1.ix.2004, 6 ♂♂ 8 ♀♀, 28.v.2005, 2 ♂♂ 1 ♀, 28.vii.2005, 3 ♂♂ 6 ♀♀, 6.ix.2005, 1 ♂ 1 ♀, 16.vi.2006, 2 ♂♂ 2 ♀♀, I. Malenovský lgt., 12.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54) and along road to Nedašov (52), 10.ix.1999, 2 ♀♀, I. Malenovský & T. Vymyslický lgt., J. Bryja det. (PKPC). Nedašov, Kaňoury NM (55), 17.vi.2006, 8 ♂♂ 6 ♀♀ (3 ♂♂ 3 ♀♀ freshly hatched), I. Malenovský lgt., 12.vii.2006, 1 ♂ 5 ♀♀, P. Kment & I. Malenovský lgt., 16.viii.2006, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55) and surrounding pastures (53), 3.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 1 ♀, J. L. Stehlík lgt. (MMBC). Pitín (72), 20.vii.1957, 1 ♂, Ondřej lgt. (MMBC). Štítná nad Vláří, south-exposed slopes N of the village (74), 10.vii.2006, 1 ♀, O. Konvička lgt. (NMPC). Brumov, Kloboucká street (76), 30.vi.2004, 1 ♂ 1 ♀, 2.ix.2004, 5 ♂♂ 1 ♀, I. Malenovský lgt., 4.ix.2005, 1 ♂ 3 ♀♀, P. Kment lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♂ 2 ♀♀, 18.viii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Bylničky, Tarandové hill (80), 24.vi.1982, 2 ♀♀, P. Lauterer lgt. (MMBC). Bylnice, railway station environs (83), 1.vii.1999, 1 ♂ 1 ♀, P. Kment & M. Omesová lgt., J. Bryja det. (PKPC). Hluk, Babí hora NM (102), 24.viii.2002, 1 ♂, I. Malenovský lgt. (PKPC). Korytná (115), 23.vii.1951, 3 ♂♂ 3 ♀♀, J. L. Stehlík lgt. (MMBC). Horní Němčí, Drahy NR (117), 30.vi.2001, 2 ♂♂ 6 ♀♀, P. Kment & I. Malenovský lgt., 13.viii.2001, 10 ♂♂ 9 ♀♀, 23.v.2005, 6 ♂♂ 6 ♀♀, P. Kment lgt., 21.vii.2002, 11 ♂♂ 17 ♀♀, 10.ix.2002, 2 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Horní Němčí, Lesná hill (123), 24.vii.1980, 1 ♀, J. L. Stehlík lgt. (MMBC). Bánov, Skalky hill (125), 21.viii.1984, 4 ♂♂ 7 ♀♀, P. Raus & J. L. Stehlík lgt. (MMBC). Strání, Obecnice hill, at transmission tower (144), 23.v.2002, 2 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Strání, Obecnice hill, S slope (145), 2.vii.2001, 1 ♂, P. Kment lgt., J. Bryja det. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 11.vii.1998, 1 ♀, P. Kment lgt., J. Bryja det. (NMPC). Radějov, Holý vrch hill (189), 4.vii.1977, 2 ♂♂ 1 ♀, L. Pospíšilová & J. L. Stehlík lgt. (MMBC). Kněždub, Čertoryje NNR (202), 19.vi.1980, 3 ♀♀, P. Lauterer, L. Pospíšilová & J. L. Stehlík lgt., J. Bryja det. (*partim*) (MMBC). Malá Vrbka, Výzkum hill, restored grassland (208), 8.vii.2000, 1 ♂, 22.vi.2001, 1 ♀, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 8.vii.2000, 2 ♂♂, P. Kment lgt., J. Bryja det., 16.viii.2000, 1 ♂ 9 ♀♀, P. Kment lgt. (PKPC). Velká nad Veličkou, village, Velička river above the weir (224), 9.ix.2000, 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 13.vii.1998, 2 ♂♂, 18.viii.2000, 2 ♀♀, P. Kment lgt., J. Bryja det. (NMPC). Suchovské Mlýny, sheep pasture (226), 16.viii.2004, 7 ♂♂ 3 ♀♀, 27.vii.2005, 6 ♂♂ 1 ♀, 1.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 16.viii.2004, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Trnovský Mlýn, meadow (229), 1.ix.2005, 2 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 18.viii.2000, 1 ♂ 2 ♀♀, P. Kment lgt., J. Bryja det., 10.ix.2000, 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC); 5.–24.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 5 ♂♂ 8 ♀♀, P. Lauterer, J. Meduna & J. L. Stehlík lgt. (MMBC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♂, I. Malenovský lgt., 8.viii.2001, 1 ♂, P. Kment lgt., 24.v.2002, 1 ♀, 17.vii.2002, 1 ♂ 4 ♀♀, 7.ix.2002, 2 ♂♂ 4 ♀♀, 2.ix.2004, 2 ♂♂ 3 ♀♀, 1.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 8.viii.2001, 1 ♂ 1 ♀, P. Kment lgt. et det., 23.ix.2001, 1 ♀, P. Kment lgt., J. Bryja det.;

24.v.2002, 2 ♂♂, 23.vi.2004, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Výzkum hill (258), 10.vi.1982, 3 ♂♂ 6 ♀♀, P. Lauterer, J. Meduna & J. L. Stehlík lgt. (MMBC). Javorník, Machová NR (259), 15.vi.–13.vii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 9.viii.2001, 1 ♂ 1 ♀, P. Kment lgt., J. Bryja det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Holarctic (Holopalaeartic and Nearctic). **Biology and habitat:** On *Galium*, especially *G. verum* and *G. mollugo*, in xerothermic, less frequently more humid, localities. A generally common species (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. The specimens examined were identified using the coloration, morphometric characters, and structure of the aedeagus according to RINNE (1989). Some small female specimens fitted to the size range of *P. lammesi* Rinne, 1989 (body length 4.55–4.88 mm); however, the examination of the male genitalia of the associated males revealed that the material invariably belonged to *P. unifasciatus*.

Polymerus (Polymerus) holosericeus Hahn, 1831

Material examined. Popov (71), 6.viii.1980, 1 ♂ 1 ♀ 1 L, J. L. Stehlík lgt. (MMBC). Boršice u Blatnice, Boršický potok brook valley (105), 16.viii.1984, 1 ♀, J. L. Stehlík lgt. (MMBC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 28.v.–18.vi.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** West Eurosiberian, extending to Transcaucasia. **Biology and habitat:** On *Galium*. Euryecious, occurring in dry and warm, as well as humid and half-shaded habitats. Generally not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded only from Mutěnice (70–7168) (STEHLÍK 1945a, HOBERLANDT 1947), the Poodří PLA: Košatka (6274), Studénka (6274), Oderský luh floodplain forest (6274) (BRYJA & KMENT 2001), Újezd u Brna (Špice, 6866), Uherčice (Hochberk, 7066), and Hustopeče u Brna (Přední kopaniny, 7066) (MALENOVSKÝ *et al.* 2011).

Polymerus (Polymerus) nigrita (Fallén, 1807)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 3.–23.vi.2008, Mt, 1 ♀, 23.vi.–16.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Petrůvka, Kladenska brook valley (64), 3.–23.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Horní Němčí, Drahy NR environs (118), 7.vii.1980, 1 samice, L. Pospíšilová lgt. (MMBC). Štítná nad Vláří, south-exposed slopes N of the village (74), 10.vii.2006, 1 ♀, O. Konvička lgt. (NMPC). Strání, Obecnice hill, S slope (146), 2.vii.2001, 1 ♂, P. Kment lgt. (PKPC). Strání, Důbrava hill (150), 7.vii.1980, 1 ♂, L. Pospíšilová lgt. (MMBC). Radějov, Žerotín NM (188), 4.–26.vi.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Holý vrch hill (189), 4.vii.1977, 2 ♂♂ 1 ♀, L. Pospíšilová & J. L. Stehlík lgt. (MMBC). Kněždub, Radějovka brook valley below Čertoryje (198), 22.vi.2001, 1 ♂, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 25.v.2000, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Radějov, Kútky NR (217), 4.–26.vi.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 2 ♂♂ 4 ♀♀, I. Malenovský lgt. (PKPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 3.–22.vi.2009, Mt, 2 ♂♂, 22.vi.–15.vii.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 28.v.–18.vi.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill

(260), 28.v.–18.vi.2007, Mt, 3 ♂♂ 1 ♀, 18.vi.–9.vii.2007, Mt, 4 ♂♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 4.vii.2001, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** Eurosiberian. **Biology and habitat:** On *Galium* (*G. mollugo*, *G. palustre*, *G. verum*, *G. boreale*, *G. aparine*). Euryecious, in open dry as well as humid habitats. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded from the Říčka river valley near Brno (6766), Brno-Bystrc (6765) (STEHLÍK 1945a), the Bobrava river valley (6864–65) (STEHLÍK 1948), on ruderal vegetation in Brno (6765–66, 6865–66) (RAUS 1990), the Poodří PLA: Košatka (6274) and Studénka (6274) (BRYJA & KMENT 2001), Rokytná (6963) (BRYJA *et al.* 2002), Rašovice (Rašovický zlom – Chobot, 6867), and Dolní Dubňany (Ve Žlebě, 6963) (MALENOVSKÝ *et al.* 2011).

Psallus (Apocremnus) montanus Josifov, 1973

Published records. RIEGER & RABITSCH (2006): Horní Němčí (7170); Javorník (7171); HRADIL *et al.* (2008): Nedašov, Kaňoury NM (55); Bylnice, Bylnický potok brook, Na Tatrách [= Bylničky, Tarandové hill] (80); Horní Němčí, Drahy NR (117); Javorník, village (239); Strání, Záhumenice NM (266).

Material examined. Bylničky, Tarandové hill (80), 24.vi.1982, 5 ♀♀, P. Lauterer lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** West Eurosiberian (data deficient); North America (perhaps introduced). **Biology and habitat:** Zoophytophagous. On *Betula*, rarely on *Salix* and *Alnus* (WACHMANN *et al.* 2004, together with *P. betuleti*). **Red List status:** Not evaluated.

Comments. Previously largely confused with the similar species, *Psallus betuleti* (Fallén, 1826), and regarded merely as a subspecies of the latter, distributed only in the mountains of Bulgaria and the Alps. Its independent status, diagnostic characters and a worldwide distribution were discussed by RIEGER & RABITSCH (2006). The distribution of both *P. betuleti* and *P. montanus* in the Czech Republic was reviewed by HRADIL *et al.* (2008), *P. montanus* being the more common species.

Psallus (Hylopsallus) assimilis Stichel, 1956

Published record. KMENT & BRYJA (2001): Malá Vrbka, Výzkum hill (210).

Material examined. Petrůvka, U Petrůvky NM (14), 3.–23.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Brumov, Holý vrch hill (79), 14.vi.1971, 1 ♂, L. Pospíšilová lgt., 3 ♀♀, J. L. Stehlík lgt. (MMBC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 3.–22.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Additional material examined. MORAVIA: Přebice (7065), 22.vi.1973, 1 ♂ 1 ♀, Z. Jindra lgt. (ZJPC). Valtice, Ladénská alej alley (7266, N 48°45'15" E 16°46'40"), 4.vi.2001, 1 ♂, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** European. **Biology and habitat:** On *Acer campestre* (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. Probably a neglected species. First recorded from the Czech Republic by KMENT & BRYJA (2001) from Brno – Líšeň (Hornek, 6766), and Malá Vrbka in the Bílé

Karpaty Mts., with additional records published from Budkovice (6964) (BRYJA *et al.* 2002) and Mikulov (Svatý kopeček NR, 7165) (BRYJA & KMENT 2006a).

Psallus (Hylopsallus) perrisi (Mulsant et Rey, 1852)

Published records. KMENT (2001): Kněždub, Čertoryje NNR (202). KMENT & BRYJA (2001): Valašské Klobouky, Dobšená NM (31).

Material examined. Brumov, Holý vrch hill (79), 14.vi.1971, 2 ♂♂, J. L. Stehlík lgt. (MMBC). Svatý Štěpán, Chladný vrch NM (93), 24.v.–16.vi.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Horní Němčí, Drahy NR (117), 23.v.2002, 1 ♂, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 14.v.–4.vi.2008, Mt, 3 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Čertoryje NNR (202), 19.vi.1980, 1 ♂, P. Lauterer lgt. (MMBC). Kněždub, Čertoryje NNR, Radějovka brook (204), 25.v.–15.vi.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Radějov, Kútky NR (217), 4.–26.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 6.iv.–12.v.2009, Mt, 1 ♂, 12.v.–2.vi.2009, Mt, 1 ♂, 2.–25.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 12.v.–2.vi.2009, Mt, 4 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 2 ♂♂, J. L. Stehlík lgt. (MMBC). Javorník, Petruchovy Mlýny, meadow (243), 24.v.2002, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 3.–22.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 3.–22.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Výzkum hill (258), 10.vi.1982, 4 ♂♂, J. L. Stehlík lgt. (MMBC). Javorník, Machová NR (259), 8.–28.v.2007, Mt, 6 ♂♂, 18.vi.–9.vii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt., 24.v.–15.vi.2010, Mt, 3 ♂♂, P. Chvojka & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 25.v.–15.vi.2010, Mt, 1 ♂, 15.vi.–9.vii.2010, Mt, 3 ♂♂, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, though more frequent in its southern part. **General distribution:** European, extending to the Near East and Transcaucasia. **Biology and habitat:** On *Quercus* (especially *Q. robur*), rarely on other deciduous trees (e.g. *Crataegus*, *Acer*, and *Tilia*). Widespread, quite common (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. Previously largely confused with similar species. For Moravia first recorded by KMENT & BRYJA (2001), with additional records from the Čertoryje NNR (KMENT 2001) and Mikulov (Svatý kopeček NR, 7165) (BRYJA & KMENT 2006a).

Psallus (Hylopsallus) variabilis (Fallén, 1807)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, Kladenska brook valley (64), 13.v.–3.vi.2008, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Horní Němčí, Drahy NR env. (118), 7.vii.1980, 3 ♂♂ 11 ♀♀, P. Lauterer lgt. (MMBC). Kněždub, Čertoryje NNR (202), 19.vi.1980, 6 ♂♂ 10 ♀♀, P. Lauterer lgt. (MMBC). Radějov, Mandát brook valley below Kútky NR (218), 14.v.–4.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 12.v.–2.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, SW slopes of Háj hill (238), 19.vi.1980, 1 ♀, P. Lauterer lgt. (MMBC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 10 ♂♂ 4 ♀♀, J. L. Stehlík lgt. (MMBC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 12.v.–2.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Fojtické Mlýny (245), 24.vii.1980, 1 ♂ 1 ♀, L. Pospíšilová lgt., (MMBC). Nová Lhota, Hryzlácké Mlýny (246), 12.v.–3.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 3.–22.vi.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 15.vi.–13.vii.2010, Mt, 2 ♂♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Výzkum hill (258), 10.vi.1982, 11 ♂♂ 14 ♀♀, J. L. Stehlík lgt. (MMBC). Strání, Záhumenice NM (266), 15.vi.–9.vii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common in the southern part of the area, rare elsewhere. **General distribution:** West Eurosiberian, extending to Transcaucasia and Iran; introduced to North America. **Biology and habitat:** On *Quercus*, rarely on other trees (*Crataegus*, *Tilia*, *Acer*, *Alnus*, *Corylus*). Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. Previously largely confused with similar species. Verified records from Moravia were reviewed by MALENOVSKÝ *et al.* (2011).

Psallus (Hylopsallus) wagneri Ossiannilsson, 1953

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Brumov, Holý vrch hill (79), 14.vi.1971, 1 ♂, J. L. Stehlík lgt. (MMBC). Kněždub, Čertoryje NNR, Radějovka brook (204), 25.v.–15.vi.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 12.v.–2.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 12.v.–2.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 1 ♂, P. Lauterer lgt., 1 ♂, J. L. Stehlík lgt. (MMBC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 12.v.–2.vi.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Hryzlácké Mlýny (246), 12.v.–3.vi.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Výzkum hill (258), 10.vi.1982, 1 ♂, J. L. Stehlík lgt. (MMBC). Javorník, Machová NR (259), 8.–28.v.2007, Mt, 4 ♂♂, 28.v.–18.vi.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt., 24.v.–15.vi.2010, Mt, 3 ♂♂, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common in the southern part of the area, rare elsewhere. **General distribution:** European, extending to Transcaucasia. **Biology and habitat:** On *Quercus* (especially *Q. robur*), rarely on *Crataegus*. Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. Previously largely confused with similar species. Verified records from Moravia were reviewed by MALENOVSKÝ *et al.* (2011).

Psallus (Mesopsallus) ambiguus (Fallén, 1807)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 1 ♀, M. Horsák & P. Kment lgt., J. Bryja det. (PKPC). Valašské Klobouky, Javorůvky NR (32), 2.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Valašské Klobouky, U Rybníků (38), 2.vii.1999, 1 ♂, M. Horsák & P. Kment lgt., J. Bryja det. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 16.vi.2006, 2 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 30.vi.1999, 2 ♀♀, M. Horsák & P. Kment lgt., J. Bryja det. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 2 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Bylničky, Tarandové hill (80), 24.vi.1982, 1 ♂ 4 ♀♀, P. Lauterer lgt. (MMBC). Bylnice, railway station environs (83), 1.vii.1999, 1 ♂ 1 ♀, P. Kment & M. Omesová lgt., J. Bryja det. (PKPC). Nedašov, Na Kopicích, brook (89), 3.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 2 ♂♂ 4 ♀♀, P. Kment & I. Malenovský lgt., 23.v.2002, 8 ♂♂, P. Kment lgt., J. Bryja det. (PKPC). Žitková (163), 11.vi.1999, 1 ♂, K. Hradil lgt. et det. (KHMC). Žitková, Hutě NR (164), 9.–29.v.2007, Mt, 1 ♂, 29.v.–19.vi.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 22.vi.2001, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 25.v.–15.vi.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Radějov, Měsíční údolí valley (214), 2.vi.1979, 1 ♂ 2 ♀♀, P. Lauterer lgt. (MMBC). Javorník, towards Suchovské Mlýny, Velička river valley (233), 29.vi.2001, 1 ♂, P. Kment lgt. (PKPC). Javorník, loampit (235), 24.v.2002, 1 ♂, P. Kment & I. Malenovský lgt., J. Bryja det. (PKPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 4 ♂♂ 3 ♀♀, P. Lauterer lgt. (MMBC). Javorník, Machová NR, Rybnický potok brook N of

Machová hill (256), 15.vi.–13.vii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 8.–28.v.2007, Mt, 3 ♂♂ 4 ♀♀, 28.v.–18.vi.2007, Mt, 2 ♂♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt., 24.v.–15.vi.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** West Eurosiberian, extending to Anatolia and Iran. **Biology and habitat:** Zoophytophagous. On various deciduous trees, preferring Rosaceae (*Malus*, *Crataegus*, *Pyrus*, *Prunus spinosa*, *Sorbus aucuparia*), more rarely also on *Alnus*, *Salix*, *Betula*, *Quercus*, etc. In dry as well as humid habitats, tolerant of shade. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Psallus (Pityopsallus) lapponicus (Fieber, 1861)

Material examined. Horní Němčí, Lesná hill (123), 24.vii.1980, 6 ♂♂ 1 ♀, J. L. Stehlík lgt. (MMBC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♂ 1 ♀, J. L. Stehlík lgt. (MMBC).

Additional material examined. MORAVIA: Křižánky, Kyšperský rybník pond (6362, N 49°41'10" E 16°03'33"), 24.vi.2000, 2 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, not collected in the course of the recent survey. **General distribution:** European; USA (perhaps introduced). **Biology and habitat:** On *Larix*, less frequently on *Picea* and *Abies*. Quite rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. *Psallus lapponicus* was listed from Moravia by HOBERLANDT (1977b), but we did not succeed in tracing any earlier published record. BRYJA & KMENT (2001) recorded it from Jeseník nad Odrou (6373) as *P. cf. luridus* (for a correction, see KMENT *et al.* 2005: 181). Also known from the Polish side of the Gl. Schneeberg [= Mt. Králícký Sněžník] (5766–67) (POLENTZ 1944).

Psallus (Pityopsallus) luridus Reuter, 1878

Material examined. Javorník, Machová NR (259), 28.v.–18.vi.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, found only in one site in the southern part of the area with a Malaise trap. **General distribution:** Eurosiberian. **Biology and habitat:** Mostly zoophagous. On *Larix*, occasionally found on *Picea*, preferring trees infested with aphids and scale insects. Preferring higher altitudes, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia known from several localities in northern and central regions: Homole [= Mt. Strážiště] (5667) in the Rychlebské hory Mts. (ŠTYS 1959), Kouty [nad Desnou] (5868), Chrástice (5867), Malé Štáhle (6070), and Smržice (6468) (STEHLÍK 1961).

Psallus (Pityopsallus) vittatus (Fieber, 1861)

Material examined. Velká nad Veličkou, Zahrady pod Hájem NNR (225), on *Larix decidua*, 19.vi.2000, 1 ♂ 3 ♀♀, P. Kment lgt. (PKPC).

Additional material examined. MORAVIA: Křižánky, Kyšperský rybník pond (6362, N 49°41'10" E 16°03'33"), 24.vi.2000, 1 ♂, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, found only at one site in the southern part of the area. **General distribution:** Eurosiberian. **Biology and habitat:** Zoophytophagous. On *Larix decidua*. Quite rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded only from Malé Štáhle (6070) (STEHLÍK 1961) and Jeseník nad Odrou (6373) (BRYJA & KMENT 2001).

***Psallus (Psallus) albicinctus* (Kirschbaum, 1856)**

Material examined. Javorník, Petruchovy Mlýny, meadow (243), 24.v.2002, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Machová NR (259), 8.–28.v.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 23.v.2002, 1 ♂, P. Kment lgt., J. Bryja det. (PKPC); 25.v.–15.vi.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only in the southern part of the area. **General distribution:** European. **Biology and habitat:** On *Quercus* in sunlit places. Widespread, rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia known only from Větkovice (6273) and Sedlec (7266) (KMENT & BRYJA 2001).

***Psallus (Psallus) asthenicus* Seidenstücker, 1966**

Published record. WYNIĞER & KMENT (2006): Kněždub, Čertoryje NNR (202).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only at one site in the southern part of the area. **General distribution:** Ponto-Mediterranean (Asian part of Turkey, Greece, Bulgaria) (SEIDENSTÜCKER 1966, JOSIFOV 1974), extending to the Pannonicum. **Biology and habitat:** On *Quercus* (*Q. cerris*, *Q. pubescens*) (SEIDENSTÜCKER 1966, JOSIFOV 1974). **Red List status:** Not evaluated.

Comments. The single female from the Čertoryje NNR was collected together with *P. cruentatus* and identified based on a dissection of the female genitalia by D. Wyniger; this is the only record of *P. asthenicus* in central Europe (WYNIĞER & KMENT 2006).

***Psallus (Psallus) confusus* Rieger, 1981**

Material examined. Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 3 ♂♂ 2 ♀♀, P. Lauterer & J. L. Stehlik lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only at one site in the southern part of the area; not recorded in the course of the recent survey. **General distribution:** European. **Biology and habitat:** On *Quercus*. Widespread, rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. First recorded in Moravia from Ostrava-Poruba (6175), Loštice (6267), Kojetín (6669), and Klentnice (Tabulová hora NNR, 7165) by KMENT *et al.* (2003).

Psallus (Psallus) cruentatus (Mulsant et Rey, 1852) (VU)

Published record. KMENT & BRYJA (2001), KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Velká nad Veličkou, Zahrady pod Hájem NNR (225), 2.–25.vi.2009, Mt, 1 ♂, 25.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 2.–25.vi.2009, Mt, 3 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Hryzlácké Mlýny (246), 12.v.–3.vi.2009, Mt, 1 ♂, 3.–22.vi.2009, Mt, 1 ♂, 22.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 8.–28.v.2007, Mt, 2 ♂♂, 28.v.–18.vi.2007, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only in a few sites in the southern part of the area. **General distribution:** North Mediterranean, extending to central Europe and Iran. **Biology and habitat:** On *Quercus*, especially *Q. pubescens*. Rare (KMENT & BRYJA 2001, WACHMANN *et al.* 2004). **Red List status:** Vulnerable.

Comments. The species reaches its northernmost limit of distribution in southern Moravia (KMENT & BRYJA 2001). It has been recorded so far from Brno – Líšeň (Velká Klajdovka NM, 6766) (KMENT & BRYJA 2001), the Čertoryje NNR in the Bílé Karpaty Mts. (KMENT & BRYJA 2001, KMENT 2001), and Mikulov (Svatý kopeček NR, 7165) (BRYJA & KMENT 2006a).

Psallus (Psallus) falleni Reuter, 1883

Material examined. Nedašov, Jalovcová stráň NR (54), 16.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Javorník, Machová NR (259), 8.–28.v.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread but rare, found only in two sites. **General distribution:** Holarctic (Eurosiberian and Nearctic). **Biology and habitat:** On *Betula (B. pendula)*. Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded from Březník (6863) (STEHLÍK 1944) and Kozlovice (Rybníky NR, 6475) (ROHÁČOVÁ 2003a).

Psallus (Psallus) flavellus Stichel, 1933

Material examined. Bylničky, Tarandové hill (80), 24.vi.1982, 4 ♂♂ 2 ♀♀, P. Lauterer lgt. (MMBC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 13.vii.–10.viii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread but rare, found only in two sites. **General distribution:** West Eurosiberian, extending to Maghreb and Transcaucasia; introduced to North America. **Biology and habitat:** On *Fraxinus excelsior*. Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded so far only from Lednice (Horní les floodplain forest, 7166) (KŘÍSTEK & DOBŠÍK 1985, KŘÍSTEK 1991) and the Poodří PLA (BRYJA & KMENT 2001).

Psallus (Psallus) haematodes (Gmelin, 1790)

Material examined. Komňa, Nový Dvůr (129), 21.viii.1984, 2 ♂♂, P. Raus lgt. (MMBC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 18.viii.2004, on *Salix caprea*, 2 ♂♂, P. Kment lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 22.viii.–10.ix.2007, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Additional material examined. MORAVIA: Křižánky, Kyšperský rybník pond (6362, N 49°41'10" E 16°03'33"), 22.vii.2000, on shrubs of *Salix*, 3 ♂♂, P. Kment lgt. (PKPC). Havraníky, Pustý kopec hill (7162), steppe and ruderal habitats, 23.vii.1969, 1 ♂, L. Pospíšilová lgt. (MMBC). Klentnice – Perná (7165), 9.viii.1962, 2 ♀♀, P. Lauterer lgt. (MMBC). Sedlec, Na Mušlově (7266), surroundings of the mill, swamp, 25.vii.1968, 1 ♀, P. Lauterer lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected in the central and southern parts of the area. **General distribution:** Eurosiberian; introduced to North America. **Biology and habitat:** On broad-leaved *Salix* (e.g. *S. caprea*, *S. aurita*, and *S. cinerea*), rarely also on narrow-leaved species (*S. viminalis*), in sunlit to shaded habitats, such as swamps and shores of waters, as well as drier sites. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia so far recorded only from the Hrubý Jeseník Mts. (STEHLÍK 1952, as *P. roseus*), Mt. Palaš (5765) in the Rychlebské hory Mts. (ŠTYS 1959, as *P. roseus*), and the Poodří PLA: Bernartice nad Odrou (6373), Odra – Malý les forest (6373) (BRYJA & KMENT 2001).

Psallus (Psallus) lepidus Fieber, 1858

Material examined. Bylničky, Tarandové hill (80), 24.vi.1982, 5 ♂♂, P. Lauterer lgt. (MMBC). Kněždub, Radějovka brook valley below Čertoryje (198), 17.vi.2000, 1 ♂, P. Kment lgt., J. Bryja det. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 25.v.2000, 2 ♂♂, P. Kment & I. Malenovský lgt., J. Bryja det. (JBSC, PKPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 15.vi.–13.vii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC).

Additional material examined. MORAVIA: Křižánky, Kyšperský rybník pond (6362, N 49°41'10" E 16°03'33"), 24.vi.2000, 3 ♂♂ 3 ♀♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** European, extending to Transcaucasia; introduced to North America. **Biology and habitat:** On *Fraxinus excelsior*. Widespread but quite rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. For Moravia, there is a doubtful record from Štramberk (6474) by ROUBAL (1955) and reliable records from Lednice (Horní les floodplain forest, 7166) (KŘÍSTEK & DOBŠÍK 1985, KŘÍSTEK 1991) and Mikulov (Svatý kopeček NR, 7165) (BRYJA & KMENT 2006a).

Psallus (Psallus) mollis (Mulsant et Rey, 1852)

Published records. KMENT & BRYJA (2001): Poteč, Ploščiny NR (42); Valašské Klobouky, Bílé potoky NR, meadow (48).

Material examined. Nedašov, Jalovcová stráž NR (54), 16.vi.2006, 2 ♂♂, I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Brumov, Holý

vrch hill (79), 14.vi.1971, 1 ♂ 3 ♀♀, J. L. Stehlík lgt. (MMBC). Radějov, Žerotín NM (188), 14.v.–4.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Holý vrch hill (189), 4.vii.1977, 3 ♂♂ 3 ♀♀, L. Pospíšilová & J. L. Stehlík lgt. (MMBC). Javorník, Jazevčí NNR (232), 12.v.–2.vi.2009, Mt, 10 ♂♂, 2.–25.vi.2009, Mt, 6 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Hryzlácké Mlýny (246), 12.v.–3.vi.2009, Mt, 4 ♂♂, 3.–22.vi.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 28.v.–18.vi.2007, Mt, 2 ♂♂, 18.vi.–9.vii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 2.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC); 15.vi.–9.vii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area.

General distribution: West Eurosiberian, extending to Anatolia and Syria. **Biology and habitat:** On *Quercus* (WACHMANN *et al.* 2004). Not rare. **Red List status:** –.

Comments. Until recently, *P. mollis* has been a neglected species in the Czech fauna (BRYJA & KMENT 2001, KMENT & BRYJA 2001, BRYJA & KMENT 2006a).

Psallus (Psallus) salicis (Herrich-Schaeffer, 1841)

Material examined. Boršice u Blatnice, Boršický potok brook valley (105), 16.viii.1984, 1 ♂, J. L. Stehlík lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only at a single site in the southern part of the area; not recorded in the course of the recent survey.

General distribution: Eurosiberian and Nearctic (USA, perhaps introduced). **Biology and habitat:** On *Alnus* (*A. glutinosa*, *A. incana*) and *Salix cinerea*. Widespread but rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded from Lešná (6473), Ocmanice (6762), Stálkov (6957) (BRYJA & KMENT 2002), and Krásná pod Lysou horou (Obidová NM, 6477) (ROHÁČOVÁ 2011).

Psallus (Psallus) varians varians (Herrich-Schaeffer, 1841)

Material examined. Petrůvka, U Petrůvky NM (14), 13.v.–3.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Poteč, Ploščíny NR (42), 1.vi.2002, 15 ♂♂ 14 ♀♀, I. Malenovský lgt. (PKPC). Nedašov, Hrušovka brook (57), 10.vi.2005, 1 ♂, P. Chvojka lgt. (NMPC). Bylničky, Tarandové hill (80), 24.vi.1982, 1 ♂ 1 ♀, P. Lauterer lgt. (MMBC). Sidonie, Sidonie NR (87), 25.v.–16.vi.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Horní Němčí, Drahy NR (117), 3.v.2002, 1 ♂, P. Kment lgt., J. Bryja det. (PKPC). Horní Němčí, Horní kopec hill (119), on *Ulmus*, 23.v.2002, 1 ♂, I. Malenovský lgt., J. Bryja det. (PKPC). Strání, Důbrava [= Důbrava hill] (150), 7.vii.1980, 1 ♂, P. Lauterer lgt. (MMBC). Žitková, Hutě NR (164), 29.v.–19.vi.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 1 ♀, P. Kment lgt. (PKPC). Výskovecké Bošačky, cattle pasture (179), 27.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 4 ♂♂, J. L. Stehlík lgt. (MMBC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 12.v.–3.vi.2009, Mt, 1 ♂, 3.–22.vi.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Výzkum hill (258), 10.vi.1982, 7 ♂♂, J. L. Stehlík lgt. (MMBC). Javorník, Machová NR (259), 8.–28.v.2007, Mt, 1 ♂, 28.v.–18.vi.2007, Mt, 1 ♂, 18.vi.–9.vii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 23.v.2002, 1 ♂, P. Kment lgt., J. Bryja det. (PKPC). Strání, Javorina NNR, meadow (270), 3.–23.vi.2009, Mt, 55 ♂♂, 23.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area.

General distribution: European, extending to Anatolia and Iran. **Biology and habitat:**

Predominantly on *Quercus*, but also on many other deciduous trees (e.g. *Fagus*, *Salix*, *Betula*, *Sorbus*, *Corylus*, *Alnus*, and *Fraxinus*). Common (WACHMANN *et al.* 2004). **Red List status:** –.

***Pseudoloxops coccineus* (Meyer-Dür, 1843)**

Material examined. Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 13.vii.–10.viii.2010, Mt, 1 ♂, 10.viii.–7.ix.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC).

Additional material examined. MORAVIA: Ocmanice – Placký Dvůr (6762), 21.vii.1969, 1 ♂, J. L. Stehlik lgt. (MMBC). Rebešovice, Velké Drůždavy NM (6865), 225.5 m a.s.l., 24.vii.1978, 2 ♂♂ 5 ♀♀, 27.vii.1977, 6 ♂♂ 13 ♀♀ (1 couple in copula), 3 spec. (freshly hatched), J. L. Stehlik lgt. (MMBC). Starý Poddvorov (7167), xerothermic deciduous forest and steppe, 240–260 m a.s.l., 27.vi.1979, 1 ♀, J. L. Stehlik lgt. (MMBC). Uherský Brod, Tyršovy sady park (6971), 30.vi.2001, 1 ♀ (freshly hatched), P. Kment lgt. (PKPC). Klentnice, Kotelná [= Kotel hill] (7165), steppe and forest margin, 29.vi.1964, 1 ♂, L. Pospíšilová lgt. (MMBC). Mikulov, Svátý kopeček NR (7165), 2.viii.1962, 1 ♀, P. Lauterer lgt. (MMBC). Nejdeč, floodplain forest and meadows (7166), 162 m a.s.l., 20.vii.1977, 1 ♀, J. L. Stehlik lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only with a Malaise trap at one site in the southern part of the area. **General distribution:** European and Holomediterranean, introduced to North America. **Biology and habitat:** Mostly zoophagous. On fertile *Fraxinus excelsior* and *F. ornus* in humid and shaded floodplain forests as well as on solitary trees in dry sites. Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded only from Tršice (6470) (BLATNÝ *et al.* 1950).

***Reuteria marqueti* Puton, 1875**

Material examined. Nedašov, Kaňoury NM (55), 16.viii.2006, 3 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Petrůvka, Kladenka brook valley (64), 16.vii.–4.viii.2008, Mt, 1 ♀, 4.–25.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Horní Němčí, Drahy NR (117), on *Corylus avellana*, 13.viii.2001, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, village (206), on *Tilia* sp., 28.vii.2001, 1 ♂, P. Kment lgt. (PKPC). Javorník, village (239), linden alley towards cemetery, on *Tilia* sp., 8.viii.2001, 1 ♂, P. Kment lgt. (PKPC).

Additional material examined. MORAVIA: Brno – Staré Brno, Rybářská ulice street (6865), alley of *Tilia cordata* at Letohrádek Mitrovských summer pavilion, 27.vi.2003, 8 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC). Charvátská Nová Ves, Boří les forest (7267), 170 m a.s.l., 15.viii.1983, 9 ♂♂ 22 ♀♀ 1 L, P. Lauterer lgt. (MMBC, PKPC); 180 m a.s.l., 16.viii.1995, 1 ♂, P. Lauterer lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area but rare. **General distribution:** North Mediterranean, extending to central Europe. **Biology and habitat:** Mostly zoophagous. On deciduous trees (especially *Quercus*, *Tilia* and *Ulmus*, rarely also on *Alnus*, *Fraxinus*, *Prunus*, *Carpinus*, *Corylus*, or *Rubus*). In warm habitats, such as south-exposed forest margins and hedges. Widespread, quite rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. For Moravia previously recorded only by STEHLÍK (1961, as *R. irrorata*) from Brno (Žlutý kopec hill, 6865). In Bohemia known only from Praha (Stromovka, 5852) and Lhota – Dolní Břežany (6052) (HRADIL *et al.* 2002).

***Rhabdomiris striatellus striatellus* (Fabricius, 1794)**

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Javorůvky NR (32), 22.v.1999, 1 ♀ (freshly hatched), P. Kment & I. Malenovský lgt. (PKPC). Bylnice, between Vlára river and Lazy NR (81), 21.v.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Svatý Štěpán, Nadřičí (94), 1 ♂, 21.v.1999, P. Kment lgt. (PKPC). Horní Němčí, Drahy NR (117), 23.v.2002, 1 ♀, P. Kment lgt. (PKPC). Horní Němčí, Horní kopec hill (119), on *Ulmus*, 23.v.2002, 1 ♀, I. Malenovský lgt., J. Bryja det. (PKPC). Žitková (163), 11.vi.1999, 1 ♀, K. Hradil lgt. et det. (KHMC). Radějov, Žerotín NM (188), 14.v.–4.vi.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 6.v.2000, 2 ♂♂, I. Malenovský lgt. (PKPC); 12.v.–2.vi.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.v.1998, 2 ♂♂, P. Kment lgt., J. Bryja det. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 24.v.2002, 1 ♂ 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Machová NR (259), 8.v.2000, 2 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Strání, Záhumenice NM (266), 23.v.2002, 2 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area.

General distribution: West Eurosiberian, extending to Iran and northern China. **Biology and habitat:** Zoophytophagous. On *Quercus* in closed forests as well as on solitary trees. Common (WACHMANN *et al.* 2004). **Red List status:** –.

***Salicarus (Salicarus) roseri* (Herrich-Schaeffer, 1838)**

Material examined. Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 1 ♀, L. Pospíšilová lgt. (MMBC). Bylnice, railway station environs (83), 1.vii.1999, 5 ♂♂, P. Kment & M. Omesová lgt., J. Bryja revid. (MHBC, PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 4 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 22.vi.2001, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 3 ♂♂ 7 ♀♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** Eurosiberian and Central Asiatic. **Biology and habitat:** On *Salix*, particularly *S. alba* and *S. purpurea*, more rarely on other species as well, e.g. *S. caprea*, *S. cinerea*, *S. fragilis*, and *S. elaeagnos*. Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia known from Vladislav (6761–62) (STEHLÍK 1948, as *Sthenarus roseri*, f. *immaculata*) and Dolní Dubňany (Ve Žlebě, 6963) (MALENOVSKÝ *et al.* 2011).

***Stenodema (Brachystira) calcarata* (Fallén, 1807)**

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Luhačovice (11), 25.v.1969, 1 spec., Šustek lgt., J. Bryja det. (MZLU). Petrůvka, U Petrůvky NM (14), 6.viii.1999, 1 ♀ (freshly hatched), P. Kment lgt. (PKPC); 13.v.–3.vi.2008, Mt, 1 ♂, 3.–23.vi.2008, Mt, 1 ♀, 23.vi.–16.vii.2008, Mt, 2 ♂♂ 3 ♀♀, 16.vii.–4.viii.2008, Mt, 2 ♂♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Suchý vrch hill (24), 21.v.1999, 1 ♀, M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Brumovka brook valley (29), 19.v.1999, 3 ♀♀, P. Kment & I. Malenovský lgt., 30.vi.1999, 2 ♂♂ 3 ♀♀, M. Horsák & P. Kment lgt. (MUBC). Valašské Klobouky, Javorůvky NR (32), 10.ix.1999, 2 ♂♂, I. Malenovský & T. Vymyslický lgt. (MUBC). Valašské Klobouky, Na Nivách (34), 9.ix.1999, 3 ♂♂ 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Valašské Klobouky, U Rybníků (38), 22.v.1999, 1 ♂, P. Kment lgt., 2.vii.1999, 2 ♂♂, M. Horsák & P. Kment lgt. (PKPC). Brumov, Uhličky (44), 28.vii.2005, 1 ♂, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, meadow (48), 19.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Hrušová dolina valley (53), 20.v.1999, 1 ♂, 3.vii.1999, 2 ♂♂

True bugs (Hemiptera: Heteroptera)

1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 20.v.1999, 6 ♂♂ 1 ♀, 3.vii.1999, 2 ♀♀, P. Kment & I. Malenovský lgt., 25.viii.2002, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54) and along road to Nedašov (52), 10.ix.1999, 3 ♂♂ 3 ♀♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Kaňoury NM (55), 20.v.1999, 3 ♂♂, P. Kment & I. Malenovský lgt., 17.vi.2006, 1 ♀, I. Malenovský lgt. (PKPC). Nedašov, meadow E of Jalovcová stráž NR (59), 30.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 1 ♂, L. Pospíšilová lgt. (MMBC). Bylnice, Lazy NR and environs (82), 12.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Bylnice, railway station environs (83), 1.vii.1999, 1 ♂, P. Kment & M. Omesová lgt.; 11.ix.1999, 3 ♀♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Sidonie, Sidonie NR (87), 16.vi.–5.vii.2010, Mt, 1 ♂, 5.vii.–11.viii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Nedašov, Pod Cigánem NM (91), 5.x.2004, 1 ♂, 28.v.2005, 1 ♀, 28.vii.2005, 1 ♀, I. Malenovský lgt. (PKPC). Sidonie, Vlárka brook valley (92), 8.ix.1981, 1 ♂, L. Pospíšilová lgt. (MMBC). Suchov, Kazivec brook valley (116), 15.v.1998, 1 ♀, P. Kment lgt., J. Bryja det. (PKPC). Horní Němčí, Drahy NR (117), 21.vii.2002, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR env. (118), 7.vii.1980, 1 ♂, P. Lauterer lgt. (MMBC). Horní Němčí, Lesná hill (123), 23.vii.1951, 1 ♂, J. L. Stehlík lgt. (MMBC). Komňa, Nový Dvůr (129), 21.viii.1984, 2 ♂♂, P. Raus lgt. (MMBC). Strání, Obecnice hill, at transmission tower (144), 2.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt., 20.vii.2002, 1 ♀, I. Malenovský lgt. (PKPC). Strání, Důbrava hill (150), 7.vii.1980, 5 ♂♂ 2 ♀♀, P. Lauterer & L. Pospíšilová lgt. (MMBC). Lopeník, U Zvonice NM (155), 24.vii.2005, 1 ♂, I. Malenovský lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 18.viii.2004, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Žitková (163), 11.vi.1999, 1 ♀, K. Hradil lgt. et det. (KHMC). Žitková, Hutě NR (164), 19.vi.–11.vii.2007, Mt, 1 ♂, 11.–31.vii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♂ 1 ♀, 8.viii.2007, 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 1 ♂ 1 ♀, 8.viii.2007, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Vyškovec, Pod Hřibovňou NM (176), 21.v.2005, 1 ♂ 1 ♀, 24.vii.2005, 2 ♂♂, P. Kment lgt., 3.ix.2005, 1 ♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 5.–26.viii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Kněždubský háj forest (197), 28.vii.2001, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Kněždub, Kněždubský háj forest (197) and Radějovka brook valley (198), 17.vi.2000, 1 ♀, 8.vii.2000, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Tvarožná Lhota, Lučina reservoir (199), 13.v.1998, 1 ♂, P. Kment lgt., J. Bryja det. (PKPC). Kněždub, Čertoryje NNR (202), 28.vii.2001, 2 ♀♀, P. Kment lgt., 27.vi.2002, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 5.–25.v.2010, Mt, 1 ♂, 25.v.–15.vi.2010, Mt, 3 ♀♀, 15.vi.–14.vii.2010, Mt, 6 ♂♂ 9 ♀♀, 14.vii.–12.viii.2010, Mt, 7 ♂♂ 7 ♀♀, 12.viii.–9.ix.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, Vojšické louky meadows (207), 17.iv.2000, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 5.v.2000, 1 ♂ 7 ♀♀, 25.v.2000, 1 ♀, 18.vi.2000, 10 ♂♂ 9 ♀♀, 27.vii.2000, 2 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 2 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC). Radějov, Kútky NR (217), 26.vi.–15.vii.2008, Mt, 3 ♂♂, 15.vii.–5.viii.2008, Mt, 8 ♂♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Mandát brook valley below Kútky NR (218), 15.vii.–5.viii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, below Zahrady pod Hájem NNR (221), 18.ii.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 13.vii.1998, 1 ♂, P. Kment lgt., J. Bryja det., 18.iv.2000, 2 ♂♂ 6 ♀♀, P. Kment & I. Malenovský lgt., 24.vii.2000, 1 ♀, I. Malenovský lgt. (PKPC); 25.vi.–15.vii.2009, Mt, 1 ♂, 14.ix.–20.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, meadow (227), 27.vii.2005, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 16.viii.2004, 1 ♂, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 6.v.2000, 3 ♂♂ 7 ♀♀, 19.vi.2000, 5 ♂♂ 3 ♀♀, I. Malenovský lgt., 10.ix.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC); 6.iv.–12.v.2009, Mt, 1 ♂ 1 ♀, 25.vi.–15.vii.2009, Mt, 7 ♂♂ 11 ♀♀, 15.vii.–5.viii.2009, Mt, 3 ♂♂ 4 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, towards Suchovské Mlýny, Velička river valley (233), on *Phragmites australis*, 6.v.2000, 2 ♂♂, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 6.iv.–12.v.2009, Mt, 3 ♂♂, 25.vi.–15.vii.2009, Mt, 2 ♂♂ 1 ♀, 15.vii.–5.viii.2009, Mt, 4 ♂♂ 5 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 3.v.2001, 1 ♂, P. Kment & I. Malenovský lgt., 17.vii.2002, 4 ♂♂ 1 ♀, 23.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 3.v.2001, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., 29.vi.2001, 1 ♂, P. Kment lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 7.iv.–12.v.2009, Mt, 4 ♂♂ 1 ♀, 22.vi.–15.vii.2009, Mt, 2 ♂♂, 15.vii.–4.viii.2009, Mt, 23 ♂♂ 4 ♀♀, 4.–24.viii.2009, Mt, 2 ♂♂ 4 ♀♀, 24.viii.–16.ix.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Vápenky, Porážky NNR (247), 9.ix.1998, 1 ♀, I. Malenovský & M. Omesová lgt. (PKPC).

Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 15.vi.–13.vii.2010, Mt, 2 ♂♂ 1 ♀, 13.vii.–10.viii.2010, Mt, 1 ♂, 10.viii.–7.ix.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 14.v.1998, 1 ♀, P. Kment lgt., J. Bryja det., 8.v.2000, 3 ♂♂ 5 ♀♀, I. Malenovský lgt. (PKPC); 18.vi.–9.vii.2007, Mt, 3 ♂♂ 1 ♀, 9.vii.–2.viii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt., 15.vi.–13.vii.2010, Mt, 1 ♂ 1 ♀, 13.vii.–10.viii.2010, Mt, 11 ♂ 3 ♀♀, 10.viii.–7.ix.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 12.iv.–8.v.2007, Mt, 1 ♂, 9.vii.–2.viii.2007, Mt, 3 ♂♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 9.vii.–12.viii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 4.vii.2001, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 3.–23.vi.2009, Mt, 3 ♂♂, 23.vi.–15.vii.2009, Mt, 1 ♂, 15.vii.–6.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Holopalaeartic. **Biology and habitat:** On Poaceae (*Agrostis tenuis*, *Alopecurus pratensis*, *Festuca*, *Molinia caerulea*), possibly also on Cyperaceae and Juncaceae. Hygrophilous, preferring humid to damp grassland (peat bogs, inundation zones, wet meadows, banks of bodies of water, etc.), rarely also in dry habitats. Very common (WACHMANN *et al.* 2004). **Red List status:** –.

Stenodema (Stenodema) holsata (Fabricius, 1787)

Material examined. Valašské Klobouky, Javorůvky NR (32), 22.v.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Královec hill (33), 10.ix.1999, 1 ♂ 3 ♀♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Valašské Klobouky, Na Nivách (34), 9.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Valašské Klobouky, NW slope of Královec hill (35) and U Rybníků (38), 10.ix.1999, 1 ♂, I. Malenovský lgt. (PKPC). Poteč, Ploščíny NR (42), 4.vii.1999, 4 ♀♀, P. Kment & I. Malenovský lgt., J. Bryja det., 13.ix.1999, 4 ♂♂ 3 ♀♀, I. Malenovský & T. Vymyslický lgt., 17.viii.2006, 1 ♂ 4 ♀♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 19.v.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Hrušová dolina valley (53), 20.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Bylničky, Tarandové hill (80), 24.vi.1982, 1 ♀, P. Lauterer lgt. (MMBC). Nedašov, Pod Cigánem NM (91), 6.ix.2005, 1 ♂, I. Malenovský lgt. (PKPC). Sidonie, Vlárka brook valley (92), 8.ix.1981, 2 ♂♂ 4 ♀♀, L. Pospíšilová lgt. (MMBC). Lopeník, U Zvonice NM (155), 24.vii.2005, 1 ♂ 1 ♀, I. Malenovský lgt., 3.ix.2005, 1 ♂, P. Kment lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 21.v.2005, 1 ♂, I. Malenovský lgt. (PKPC). Vyškovec, Pod Hřibovňou NM (176), 25.ix.2004, 1 ♀, 24.vii.2005, 3 ♂♂ 6 ♀♀, P. Kment lgt., 3.ix.2005, 5 ♀♀, I. Malenovský lgt. (PKPC). Vápenky, Velička brook valley below Hubertova bouda hut (253), 21.viii.2002, 3 ♂♂, P. Kment lgt. (PKPC). Nová Lhota, Hryzácké Mlýny (246), 7.iv.–12.v.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 21.viii.2002, 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread in the northern part of the area, confined to higher altitudes in the central and southern parts. **General distribution:** Eurosiberian. **Biology and habitat:** On Poaceae (*Phleum*, *Molinia*, *Poa*, *Holcus*, *Calamagrostis*, *Deschampsia*, *Agrostis*, etc.) and Juncaceae (*Luzula*, *Juncus*) in humid meadows and forests, at medium and high altitudes. Common (WACHMANN *et al.* 2004). **Red List status:** –.

Stenodema (Stenodema) laevigata (Linnaeus, 1758)

Published records. KMENT (2001), KMENT & MALENOVSKÝ (2008): Kněždub, Čertoryje NNR (202). KMENT & MALENOVSKÝ (2008): Nedašov, Jalovcová stráž NR (54).

Material examined. Petrůvka, U Petrůvky NM (14), 6.viii.1999, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC); 16.vii.–4.viii.2008, Mt, 1 ♀, 4.–25.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 19.v.1999, 1 ♂ 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské

True bugs (Hemiptera: Heteroptera)

Klobouky, Brumovská street (30), 19.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 22.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 22.v.1999, 1 ♂ 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Poteč, Ploštiny NR (42), 4.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt., 13.ix.1999, 3 ♀♀, I. Malenovský & T. Vymyslický lgt., 1.vi.2002, 1 ♀, I. Malenovský lgt., 17.viii.2006, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Brumov, Uhlíčky (44), 28.v.2005, 1 ♀, I. Malenovský lgt. (PKPC). Brumov, Uhlíčky (44) and Kloboucká street (76), 8.v.2004, 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 23.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 14.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, meadow (48), 19.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 20.v.1999, 4 ♀♀, 3.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt., 1.ix.2004, 4 ♂♂ 6 ♀♀, 5.x.2004, 1 ♀, 28.v.2005, 12 ♀♀, 28.vii.2005, 3 ♂♂ 7 ♀♀, I. Malenovský lgt., 16.viii.2006, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55), 20.v.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., 17.vi.2006, 1 ♀, I. Malenovský lgt., 16.viii.2006, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Nedašov, meadow E of Jalovcová stráž NR (59), 30.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 1 ♀ 1 L, L. Pospíšilová lgt. (MMBC). Petrůvka, Kladenka brook valley (64), 16.vii.–4.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Hostětín (70), 10.viii.1970, 1 ♀ 1 L, L. Pospíšilová lgt. (MMBC). Bylnice, Na Stráži (77), 11.vii.2006, 3 ♂♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Brumov, Holý vrch hill (79), 14.vi.1971, 1 ♀, L. Pospíšilová lgt. (MMBC). Bylnice, between Vlára river and Lazy NR (81), 21.v.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Bylnice, Lazy NR and environs (82), 12.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 1.ix.2004, 2 ♂♂ 1 ♀, 5.x.2004, 1 ♂, 28.v.2005, 1 ♀, 28.vii.2005, 2 ♂♂ (1 ♂ freshly hatched), I. Malenovský lgt. (PKPC). Svatý Štěpán, Nadřičí (94), 21.v.1999, 1 ♀, P. Kment lgt. (PKPC). Horní Němčí, Hornoněmčanský háj forest (108), 10.ix.2002, 1 ♂, I. Malenovský lgt. (PKPC). Suchov, Kazivec brook valley (116), 15.v.1998, 1 ♂ 1 ♀, P. Kment lgt., J. Bryja det. (PKPC). Horní Němčí, Drahy NR (117), 21.vii.2002, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Bánov, Skalky hill (125), 21.viii.1984, 1 ♀, P. Lauterer lgt. (MMBC). Strání, Klanečnické brook valley between village and Žabka reservoir (143), 16.v.1998, 2 ♀♀, P. Kment lgt., J. Bryja det. (MHBC, PKPC). Strání, Obecnice hill, at transmission tower (144), 20.vii.2002, 1 ♀, I. Malenovský lgt. (PKPC). Strání, Důbrava hill (150), 7.vii.1980, 1 ♀, P. Lauterer lgt., 2 ♀♀ L. Pospíšilová lgt. (MMBC). Lopeník, U Zvonice NM (155), 24.vii.2005, 1 ♀, I. Malenovský lgt. (PKPC). Lopeník, Mikulčín vrch hill (160), 17.vii.1964, 1 ♀, L. Pospíšilová lgt. (MMBC). Žitková (163), 11.vi.1999, 1 ♀, K. Hradil lgt. et det. (KHMC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 8.viii.2007, 4 ♂♂, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov (173), 23.vii.1951, 1 ♂, J. L. Stehlík lgt. (MMBC). Vyškovec, Pod Hřibovnou NM (176), 28.vi.2004, 1 ♀, I. Malenovský lgt., 21.v.2005, 1 ♀, 24.vii.2005, 1 ♂ 6 ♀♀, P. Kment lgt., 3.ix.2005, 3 ♂♂ 8 ♀♀, I. Malenovský lgt. (PKPC). Vyškovec, Ve Vlčí NR (177), 22.v.2005, 2 ♀♀, I. Malenovský lgt. (PKPC). Vyškovecské Bošačky, cattle pasture (179), 24.vii.2005, 4 ♂♂ 4 ♀♀, P. Kment lgt. (PKPC). Vyškovecské Bošačky, meadow and orchard (180), 27.vi.2004, 1 ♀, I. Malenovský lgt., 19.viii.2004, 2 ♂♂ 2 ♀♀, P. Kment lgt., 21.v.2005, 2 ♀♀, I. Malenovský lgt. (PKPC). Radějov, Holý vrch hill (189), 4.vii.1977, 2 ♀♀, L. Pospíšilová lgt., 2 ♀♀, J. L. Stehlík lgt. (MMBC). Kněždub, Kněždubský háj forest (197), 28.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Kněždub, Kněždubský háj forest (197) and Radějovka brook valley (198), 17.vi.2000, 1 ♀, 8.vii.2000, 2 ♀♀, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 27.vi.2002, 2 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 5.v.2000, 1 ♂ 3 ♀♀, I. Malenovský lgt., 25.v.2000, 4 ♀♀, P. Kment & I. Malenovský lgt., 18.vi.2000, 2 ♂♂ 3 ♀♀, 27.vii.2000, 1 ♀, I. Malenovský lgt., 16.viii.2000, 1 ♀, P. Kment lgt., 2.v.2001, 1 ♂ 2 ♀♀, 28.vii.2001, 6 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt., 18.v.2002, 1 ♀, 27.vi.2002, 3 ♂♂, I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Radějov, Měsíční údolí valley (214), along road to Radějov, 16.viii.2009, 1 ♂, P. Kment lgt. (PKPC). Radějov, Kútky NR (217), 26.vi.–15.vii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Mandát brook valley below Kútky NR (218), 26.vi.–15.vii.2008, Mt, 1 ♀, 24.ix.–28.x.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.v.1998, 1 ♀, P. Kment lgt., J. Bryja det., 9.–10.ix.2000, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Suchovské Mlýny, sheep pasture (226), 27.vii.2005, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Suchovské Mlýny, meadow (227), 23.vi.2004, 1 ♀, 26.v.2005, 1 ♀, 27.vii.2005, 1 ♀, I. Malenovský lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 27.vii.2005, 1 ♂, I. Malenovský lgt. (PKPC). Trnovský Mlýn, meadow (229), 27.vii.2005, 1 ♀,

I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 6.v.2000, 3 ♀♀, I. Malenovský lgt., 18.viii.2000, 4 ♂♂ 12 ♀♀, P. Kment lgt., 10.ix.2000, 1 ♀, 3.v.2001, 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, village (239), 8.viii.2001, 1 ♂, P. Kment lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 3.v.2001, 2 ♀♀, P. Kment & I. Malenovský lgt., 23.ix.2001, 1 ♀, P. Kment lgt., 17.vii.2002, 3 ♂♂, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 3.v.2001, 5 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 7.iv.–12.v.2009, Mt, 2 ♂♂, 15.vii.–4.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 7.iv.–12.v.2009, Mt, 3 ♀♀, 12.v.–3.vi.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 14.v.1998, 1 ♂ 1 ♀, P. Kment lgt., J. Bryja det., 8.v.2000, 1 ♀, I. Malenovský lgt. (PKPC); 9.vii.–2.viii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt., 10.viii.–7.ix.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 28.v.–18.vi.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 24.v.2001, 1 ♀, I. Malenovský lgt. (PKPC). Strání, Záhumenice NM (266), 9.viii.2001, 1 ♂, 23.v.2002, 4 ♀♀, P. Kment lgt. (PKPC); 9.vii.–12.viii.2010, Mt, 1 ♂ 2 ♀♀, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Holopalaearctic. **Biology and habitat:** On Poaceae (e.g. *Alopecurus*, *Dactylis*, *Festuca*, *Holcus*, *Agrostis*, *Deschampsia*, *Triticum*, *Secale*). Euryecious, inhabiting various types of grassland, open as well as half-shaded, including forest undergrowth, less frequently in humid places as well. Very common (WACHMANN *et al.* 2004). **Red List status:** –.

Stenodema (Stenodema) virens (Linnaeus, 1767)

Material examined. Korytná (115), 23.vii.1951, 2 ♂♂, J. L. Stehlík lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, not recorded in the course of the recent survey. **General distribution:** Eurosiberian and Central Asiatic. **Biology and habitat:** On various Poaceae in slightly humid to dry grassland, as well as open forests. Widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia so far recorded only from Štramberk (Kotouč hill, 6474) (SPITZNER 1889, as *Miris virens* f. *flavus*; ROUBAL 1956), Prossnitz [= Prostějov] (6568), Freiberg [= Příbor] (6374), Frankstadt [= Nový Malín (6068) or Frenštát pod Radhoštěm (6475)] (SPITZNER 1892), the Hrubý Jeseník Mts. (STEHLÍK 1952), Dolní Lipová (5768) in the Rychlebské hory Mts. (ŠTYS 1959), the Polanská niva (6275) in the Poodří PLA (BRYJA & KMENT 2001), and Mikulov (Svatý kopeček NR, 7165) (BRYJA & KMENT 2006a).

Stenotus binotatus (Fabricius, 1794)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 23.vi.–16.vii.2008, Mt, 1 ♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 4 ♂♂ 6 ♀♀, M. Horsák & P. Kment lgt. (MUBC). Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 5 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 2.vii.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, U Rybníků (38), 2.vii.1999, 3 ♂♂ 4 ♀♀, M. Horsák & P. Kment lgt. (PKPC). Poteč, Ploščíny NR (42), 4.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Královec – Ploščíny ridge (43), 4.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 30.vi.1999, 2 ♂♂ 3 ♀♀, M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov,

True bugs (Hemiptera: Heteroptera)

Jalovcová stráň NR (54), 3.vii.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., 28.vii.2005, 1 ♂ 10 ♀♀, I. Malenovský lgt., 12.vii.2006, 2 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 1 ♂ 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, meadow E of Jalovcová stráň NR (59), 30.vi.2004, 2 ♂♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 1 ♀, L. Pospíšilová lgt. (MMBC). Petrůvka, Kladenska brook valley (64), 3.–23.vi.2008, Mt, 1 ♀, 23.vi.–16.vii.2008, Mt, 2 ♂♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Slavičín (69), 10.vii.1989, 5 ♀♀, I. Vavřínová lgt. (MMBC). Štítná nad Vláří, south-exposed slopes N of the village (74), 10.vii.2006, 1 ♀, O. Konvička lgt. (NMPC). Brumov, Kloboucká street (76), 30.vi.2004, 5 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Bylničky, Tarandové hill (80), 24.vi.1982, 2 ♂♂ 1 ♀, P. Lauterer lgt. (MMBC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 2 ♂♂ 2 ♀♀, P. Kment & M. Omesová lgt. (PKPC). Bylnice, railway station environs (83), 1.vii.1999, 1 ♂, P. Kment & M. Omesová lgt. (PKPC). Lipov, Pešunk (100), 27.vi.2008, 2 ♀♀, 10.vii.2009, 1 ♀, Z. Malinka lgt. (ZMOC). Korytná (115), 23.vii.1951, 8 ♂♂ 52 ♀♀, J. L. Stehlík lgt. (MMBC). Horní Němčí, Drahy NR (117), 30.vi.2001, 3 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR env. (118), 7.vii.1980, 1 ♀, P. Lauterer lgt. (MMBC). Horní Němčí, Lesná hill (123), 23.vii.1951, 1 ♂ 18 ♀♀, 24.vii.1980, 1 ♂, J. L. Stehlík lgt. (MMBC). Březová, Kalábová NM (137), 4.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Lopeník, U Zvonice NM (155), 24.vii.2005, 1 ♀, I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 29.v.–19.vi.2007, Mt, 1 ♀, 19.vi.–11.vii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 3 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Výškovec, Pod Hribovňou NM (176), 28.vi.2004, 1 ♂ (freshly hatched), I. Malenovský lgt., 24.vii.2005, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Výškovcecké Bošačky, cattle pasture (179), 27.vi.2004, 4 ♂♂ 2 ♀♀ (2 ♂♂ 2 ♀♀ freshly hatched), I. Malenovský lgt., 24.vii.2005, 1 ♂, P. Kment lgt. (PKPC). Výškovcecké Bošačky, meadow and orchard (180), 19.viii.2004, 1 ♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 4.–26.vi.2008, Mt, 1 ♂ 5 ♀♀, 26.vi.–14.vii.2008, Mt, 6 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♂ 1 ♀, L. Pospíšilová lgt., 3 ♂♂ 1 ♀, J. L. Stehlík lgt. (MMBC). Kněždub, Radějovka brook valley below Čertoryje (198), 17.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 22.vi.2001, 3 ♂♂ 2 ♀♀, P. Kment lgt., 27.vi.2002, 2 ♀♀, I. Malenovský lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 15.vi.–14.vii.2010, Mt, 1 ♂, 14.vii.–12.viii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, Výzkum hill, restored grassland (208), 25.v.2000, 1 ♂, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 19.vi.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Radějov, Kútky NR (217), 25.vi.2010, 1 ♂, J. Ch. Vávra lgt. (OMOC); 4.–26.vi.2008, Mt, 1 ♂, 26.vi.–15.vii.2008, Mt, 1 ♂, 15.vii.–5.viii.2008, Mt, 3 ♂♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Mandát brook valley below Kútky NR (218), 4.–26.vi.2008, Mt, 1 ♂, 26.vi.–15.vii.2008, Mt, 3 ♂♂, 15.vii.–5.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 23.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Jazevečí NNR (232), 19.vi.2000, 2 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC); 2.–25.vi.2009, Mt, 1 ♂, 25.vi.–15.vii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevečí NNR, left-side tributary of Velička river (241), 2.–25.vi.2009, Mt, 2 ♂♂, 25.vi.–15.vii.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 4 ♂♂ 5 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 29.vi.2001, 11 ♂♂ 16 ♀♀, P. Kment lgt., 23.vi.2004, 8 ♂♂ 12 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 15.vi.–13.vii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 9.vii.1998, 3 ♂♂ 2 ♀♀, P. Kment lgt., J. Bryja det. (MHBC, PKPC); 28.v.–18.vi.2007, Mt, 1 ♂, 18.vi.–9.vii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt., 15.vi.–13.vii.2010, Mt, 2 ♂♂ 1 ♀, 13.vii.–10.viii.2010, Mt, 1 ♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 28.v.–18.vi.2007, Mt, 2 ♀♀, 18.vi.–9.vii.2007, Mt, 1 ♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 2.vii.2001, 2 ♂♂ 6 ♀♀, 20.vii.2002, 1 ♂, I. Malenovský lgt. (PKPC). Strání, Záhumenice NM (266), 2.vii.2001, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Eurosiberian, introduced to North America, Hawaii and New Zealand. **Biology and habitat:** On Poaceae. Euryecious but preferring humid and half-shaded habitats, less frequently in open, drier sites as well. Common (WACHMANN *et al.* 2004). **Red List status:** –.

***Sthenarus rotermundi* (Scholz, 1847)**

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Kněždub, Kněždubský háj forest (197), on *Populus alba*, 17.vi.2000, 1 ♂ 3 ♀♀, 22.vi.2001, 1 ♀, P. Kment lgt. (MHBC, PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 22.vi.2001, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, below Zahrady pod Hájem NNR (221), 19.vi.2000, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only in the southern part of the area. **General distribution:** West Eurosiberian, extending to Transcaucasia and Iran; introduced to North America. **Biology and habitat:** Zoophytophagous. On *Populus alba* and *P. canescens*. In humid (e.g. floodplain forests) as well as drier habitats. Generally widespread, not rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded only from Brno ([Kníničská] přehrada dam, 6765) (STEHLÍK & HOBERLANDT 1954) and Lednice (Horní les floodplain forest, 7166) (KŘÍSTEK & DOBŠÍK 1985).

***Strongylocoris leucocephalus* (Linnaeus, 1758)**

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Poteč, Ploštiny NR (42), 13.ix.1999, 2 ♀♀, I. Malenovský & T. Vymyslický lgt., 1.vi.2002, 4 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráň NR (54), 3.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt., 30.vi.2004, 1 ♂, 16.vi.2006, 2 ♂♂, I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, meadow E of Jalovcová stráň NR (59), 30.vi.2004, 3 ♀♀, I. Malenovský lgt. (PKPC). Popov (71), 6.viii.1980, 1 ♂, J. L. Stehlík lgt. (MMBC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Korytná (115), 23.vii.1951, 1 ♀, J. L. Stehlík lgt. (MMBC). Strání, Důbrava hill (150), 7.vii.1980, 1 ♀, P. Lauterer lgt. (MMBC). Výskovecké Bošačky, meadow and orchard (180), 21.v.2005, 1 L, I. Malenovský lgt., 24.vii.2005, 2 ♂♂, P. Kment lgt. (PKPC). Žitková (163), 11.vi.1999, 1 ♂ 1 ♀, K. Hradil lgt. et det. (KHMC). Žitková, Hutě NR (164), 9.–29.v.2007, Mt, 1 ♂, 29.v.–19.vi.2007, Mt, 8 ♂♂ 1 ♀, 19.vi.–11.vii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♂, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 14.v.–4.vi.2008, Mt, 1 ♂, 4.–26.vi.2008, Mt, 3 ♂♂ 1 ♀, 26.vi.–14.vii.2008, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Čertoryje NNR (202), U Pomníčku, 27.vi.2002, 1 ♂, I. Malenovský lgt., 1 ♂, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 25.v.–15.vi.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Radějov, Kútky NR (217), 4.–26.vi.2008, Mt, 1 ♂, 26.vi.–15.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Mandát brook valley below Kútky NR (218), 4.–26.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 12.v.–2.vi.2009, Mt, 1 ♀, 2.–25.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 26.v.2005, 3 ♂♂, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 15.vii.1998, 1 ♀, I. Malenovský & M. Omesová lgt., J. Bryja det., 6.v.2000, 2 ♂♂ 1 ♀, 19.vi.2000, 1 ♂, I. Malenovský lgt., 29.vi.2001, 1 ♂, P. Kment lgt. (PKPC); 12.v.–2.vi.2009, Mt, 1 ♂, 2.–25.vi.2009, Mt, 4 ♂♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, loampit (235), 24.v.2002, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 1 ♂ 1 ♀, J. L. Stehlík lgt. (MMBC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 25.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 9.vii.1998, 1 ♀, P. Kment lgt., J. Bryja det. (PKPC); 18.vi.–9.vii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt., 15.vi.–13.vii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 23.vi.–15.vii.2009, Mt, 1 ♂, 15.vii.–6.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area; a characteristic species of species-rich meadow communities. **General distribution:** Holopalaeartic. **Biology and habitat:** On *Campanula* (*C. rotundifolia*, *C.*

rapunculoides) but also other plants (*Galium*, *Helianthemum*, *Lotus*, *Trifolium*) in open to half-shaded, xerothermic habitats with rich herbaceous vegetation. Not rare (WACHMANN *et al.* 2004). **Red List status:** –.

***Strongylocoris niger* (Herrich-Schaeffer, 1835) (VU)**

Material examined. Kněždub, Čertoryje NNR (202), U Pomníčku, 27.vi.2002, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♂, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only at two localities in the southern part of the area. **General distribution:** West Eurosiberian, extending to the Near East and Iran. **Biology and habitat:** On Apiaceae (*Meum athamanthicum*, *Peucedanum oreoselinum*, *P. palustre*) in open, mesic to humid habitats (WACHMANN *et al.* 2004). **Red List status:** Vulnerable.

Comments. Rare in Moravia, previously known from only five localities (MALENOVSKÝ *et al.* 2011).

***Systemonotus triguttatus* (Linnaeus, 1767)**

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Vyškovské Bošacky, cattle pasture (179), 27.vi.2004, 2 ♂♂ (ma), I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♂ (ma), P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 12.v.–2.vi.2009, Mt, 1 ♂ (ma), P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 23.vi.2004, 1 ♂ (ma), 26.v.2005, 1 ♀ (br), 27.vii.2005, 3 ♂♂ (ma), I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 12.v.–2.vi.2009, Mt, 1 ♂ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, SW slopes of Háj hill (238), 19.vi.1980, 1 ♂ (ma), P. Lauterer lgt. (MMBC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 1 ♂ (ma), J. L. Stehlik lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Rare. Found in several xerothermic sites in the central and southern parts of the area, with an affinity to pastures. **General distribution:** West Eurosiberian, extending to Transcaucasia. **Biology and habitat:** Zoophytophagous. Epigeic, often occurring associated with ants of the genus *Lasius* in dry, open places within various habitats, such as xerothermic sites on sand or limestone, heathland and ruderal sites, as well as fens (WACHMANN *et al.* 2004). Rarely collected. **Red List status:** –.

Comments. Previous records from Moravia were summarized by MALENOVSKÝ *et al.* (2011). There is one additional overlooked record (Nové Vilémovice, 5667) by ŠTYS (1959).

***Teratocoris antennatus* (Boheman, 1852) (NT)**

Material examined. Valašské Klobouky, U Rybníků (38), 2.vii.1999, 1 ♀, M. Horsák & P. Kment lgt. (PKPC).

Additional material examined. BOHEMIA: Lysá nad Labem, Hrabanovská černava NNR, pool on the west margin of the reserve (5754, N 50°12'50.47" E 14°49'38.10"), 2.vi.2000, 1 ♀, P. Kment lgt. (PKPC). **MORAVIA:** Březejc, Pod Sopouškem [= U Studně] pond (6662, N 49°20'36.45" E 16°05'49.76"), tufts of *Carex* sticking from water, 5.vii.1999, 2 ♂♂, P. Kment lgt. (PKPC). Brno – Chrlice (6865), abandoned field, sweeping of *Bolboschoenus maritimus*, 23.vi.1999, 1 ♀, I. Malenovský lgt. (PKPC). Dolní Věstonice, towards Pouzdřany (7165), Caricetum in open swamps, 168 m a.s.l., 28.x.1978, 1 ♀ (freshly hatched), P. Lauterer lgt.

(MMBC). Hrabětice, Trávní Dvůr (7264, N 48°47'19.8" E 16°25'41.0"), wetland meadows, 14.v.2011, numerous adults and few larvae on *Bolboschoenus maritimus*, P. Kment lgt. et observ. (1 ♂ 4 ♀♀ in NMPC). Sedlec, Slanisko u Nesytu NNR (7266), salt marsh, 21.viii.1986, 1 ♂ 34 ♀♀ (MMBC, PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, found at only one locality in the northern part of the territory. **General distribution:** Eurosiberian, extending to Maghreb, and Central Asiatic. **Biology and habitat:** On *Phragmites australis*, *Phalaris arundinacea*, and also on *Glyceria*, *Scirpus*, *Juncus*, and *Carex* species (WACHMANN *et al.* 2004). We observed adults sucking on *Bolboschoenus maritimus* in a salt meadow in Trávní Dvůr (P. Kment, pers. observ.). In dense reed and sedge stands on shores of waters, in salt marshes, and swamps. Widespread, but quite rare (WACHMANN *et al.* 2004). **Red List status:** Near-threatened.

Comments. In Moravia recorded so far only from Dolní Věstonice (7165) (STEHLÍK 1961) and the Poodří PLA (Oderský luh floodplain forest, 6274) (BRYJA & KMENT 2001).

Tinicephalus (Tinicephalus) hortulanus (Meyer-Dür, 1843)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Nedašov, Kaňoury NM (55), 17.vi.2006, 4 ♂♂ 3 ♀♀ (1 ♂ 3 ♀♀ freshly hatched), I. Malenovský lgt. (PKPC). Poteč, Ploštiny NR (42), 1.vi.2002, 1 ♂, I. Malenovský lgt. (PKPC). Bylničky, Tarandové hill (80), 24.vi.1982, 1 ♂, P. Lauterer lgt. (MMBC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♂, J. L. Stehlik lgt. (MMBC). Kněždub, Čertoryje NNR (202), 19.vi.1980, 1 ♂ 1 ♀, P. Lauterer lgt. (MMBC); 18.v.2002, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, SW slopes of Háj hill (238), 19.vi.1980, 2 ♂♂ 1 ♀, P. Lauterer lgt. (MMBC). Nová Lhota, Fojtické Mlýny (245), 7.vii.1980, 1 ♂, L. Pospíšilová lgt. (MMBC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 1 ♂ 1 ♀, P. Lauterer & J. L. Stehlik lgt. (MMBC). Javorník, Výzkum hill (258), 10.vi.1982, 3 ♂♂ 3 ♀♀, P. Lauterer & J. L. Stehlik lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, but confined to xerothermic grassland sites and quite rare. **General distribution:** North Mediterranean, extending to western and central Europe, Maghreb and Transcaucasia. **Biology and habitat:** On *Helianthemum nummularium*. In sunlit, dry habitats, often on limestone. Generally quite rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded from Štramberk (Kotouč hill, 6474) (ROUBAL 1956), Vladislav (6761–62) (STEHLÍK 1971, as *T. brevipes*), and the Čertoryje NNR (KMENT 2001).

Trigonotylus caelestialium (Kirkaldy, 1902)

Published records. KMENT (2001): Kněždub, Čertoryje NNR (202). KMENT & MALENOVSKÝ (2008): Strání, Záhumenice NM (266).

Material examined. Valašské Klobouky, Brumovka brook valley (29), 9.ix.1999, 1 ♀, I. Malenovský lgt. (PKPC). Poteč, Ploštiny NR (42), 4.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt., 13.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt., J. Bryja det., 1.vi.2002, 3 ♂♂ 6 ♀♀, I. Malenovský lgt., 24.viii.2002, 3 ♂♂ 1 ♀, 17.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Brumov, Uhličky (44), 1.ix.2004, 13 ♂♂ 13 ♀♀, I. Malenovský lgt., 28.vii.2005, 11 ♂♂ 1 ♀, 4.ix.2005, 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 14.viii.2006, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 25.viii.2002, 1 ♂, P. Kment lgt., 30.vi.2004, 1 ♀, I. Malenovský lgt., 16.viii.2006, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Nedašov,

True bugs (Hemiptera: Heteroptera)

Kaňoury NM (55), 16.viii.2006, 5 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC). Popov (71), 6.viii.1980, 1 ♀, J. L. Stehlík lgt. (MMBC). Brumov, Kloboucká street (76), 2.ix.2004, 1 ♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Bylnice, railway station environs (83), 1.vii.1999, 1 ♀, P. Kment & M. Omesová lgt.; 11.ix.1999, 2 ♂♂ 1 ♀, I. Malenovský & T. Výmyslický lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 1.ix.2004, 4 ♀♀, 28.vii.2005, 2 ♂♂, I. Malenovský lgt. (PKPC). Hluk, Babi hora NM (102), 24.viii.2002, 1 ♂, I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 11.vii.2009, 4 ♂♂ 5 ♀♀, P. Baňář lgt. et det. (MMBC). Boršice u Blatnice, Boršický potok brook valley (105), 16.viii.1984, 1 ♂ 3 ♀♀, J. L. Stehlík lgt. (MMBC). Korytná, Březi (113), 5.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR (117), 13.viii.2001, 1 ♀, P. Kment lgt., 21.vii.2002, 50 ♂♂ 31 ♀♀, I. Malenovský lgt. (PKPC). Bánov, Skalky hill (125), 21.viii.1984, 3 ♂♂ 3 ♀♀, P. Lauterer & P. Raus lgt. (MMBC). Komňa, Nový Dvůr (129), 21.viii.1984, 1 ♂, P. Lauterer lgt. (MMBC). Strání, Obecnice hill, at transmission tower (144), 9.viii.2001, 4 ♂♂ 5 ♀♀, P. Kment lgt., 23.v.2002, 1 ♂, P. Kment & I. Malenovský lgt., 20.vii.2002, 24 ♂♂ 16 ♀♀, 12.ix.2002, 2 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Strání, Důbrava hill (150), 7.vii.1980, 1 ♀, L. Pospíšilová lgt. (MMBC). Lopeník, U Zvonice NM (155), 24.vii.2005, 2 ♂♂ 1 ♀, I. Malenovský lgt., 3.ix.2005, 1 ♀, P. Kment lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 18.viii.2004, 5 ♂♂ 5 ♀♀, P. Kment lgt., 25.ix.2004, 1 ♀, 24.vii.2005, 1 ♂, I. Malenovský lgt., 3.ix.2005, 2 ♀♀, P. Kment lgt. (PKPC). Lopeník, Mikulčin vrch hill (160), spruce forest margin, 24.vii.2005, 1 ♀, I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 19.vi.–11.vii.2007, Mt, 1 ♀, 31.vii.–21.viii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 2 ♂♂ 2 ♀♀, 8.viii.2007, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 2 ♂♂ 3 ♀♀, 8.viii.2007, 1 ♂ 3 ♀♀, P. Kment lgt. (PKPC). Vápenice, V Krátkých (170), 6.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Výskovec, Pod Hřibovňou NM (176), 24.vii.2005, 1 ♂ 1 ♀, P. Kment lgt., 3.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Výskovecké Bošačky, cattle pasture (179), 24.vii.2005, 3 ♂♂ 2 ♀♀, P. Kment lgt., 3.ix.2005, 2 ♂♂ 4 ♀♀, I. Malenovský lgt. (PKPC). Výskovecké Bošačky, meadow and orchard (180), 19.viii.2004, 5 ♂♂ 5 ♀♀, P. Kment lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 26.vi.–14.vii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Kněždubský háj forest (197), 28.vii.2001, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Kněždub, Kněždubský háj forest (197) and Radějovka brook valley (198), 17.vi.2000, 5 ♀♀, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 8.ix.2000, 1 ♂ 1 ♀, I. Malenovský lgt., 28.vii.2001, 1 ♂ 2 ♀♀, 20.ix.2001, 1 ♂ 1 ♀, P. Kment lgt., 27.vi.2002, 1 ♀, I. Malenovský lgt., 17.viii.2002, 1 ♂ 5 ♀♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 25.v.2000, 27 ♂♂ 34 ♀♀, P. Kment & I. Malenovský lgt., 18.vi.2000, 1 ♀, I. Malenovský lgt., 8.vii.2000, 2 ♂♂ 2 ♀♀, P. Kment lgt., 27.vii.2000, 53 ♂♂ 23 ♀♀, P. Kment & I. Malenovský lgt., 4.viii.2000, 4 ♂♂, 16.viii.2000, 9 ♂♂ 13 ♀♀, P. Kment lgt., 28.vii.2001, 37 ♂♂ 29 ♀♀, I. Malenovský lgt., 20.ix.2001, 11 ♂♂ 14 ♀♀, P. Kment lgt., 27.vi.2002, 1 ♀, I. Malenovský lgt., 17.viii.2002, 10 ♂♂ 16 ♀♀, 4.x.2002, 2 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 8.vii.2000, 1 ♂ 2 ♀♀, 16.viii.2000, 1 ♂ 1 ♀, P. Kment lgt., 28.vii.2001, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Radějov, Kútky NR (217), 4.–26.vi.2008, Mt, 1 ♂, 26.vi.–15.vii.2008, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, village, Velička river above the weir (224), 9.ix.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 24.vii.2000, 1 ♀, I. Malenovský lgt. (PKPC); 25.vi.–15.vii.2009, Mt, 1 ♀, 15.vii.–6.viii.2009, Mt, 2 ♀♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 16.viii.2004, 7 ♂♂ 4 ♀♀, I. Malenovský lgt. (PKPC). Suchovské Mlýny, meadow (227), 16.viii.2004, 21 ♂♂ 5 ♀♀, P. Kment lgt., 1.x.2004, 1 ♀, 1.ix.2005, 10 ♂♂ 15 ♀♀, I. Malenovský lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 16.viii.2004, 13 ♂♂ 14 ♀♀, P. Kment lgt., 27.vii.2005, 3 ♂♂ 3 ♀♀, 1.ix.2005, 1 ♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Trnovský Mlýn, meadow (229), 27.vii.2005, 4 ♂♂ 5 ♀♀, 1.ix.2005, 4 ♂♂ 4 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 18.viii.2000, 1 ♂ 1 ♀, P. Kment lgt. (PKPC); 24.viii.–14.ix.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, loampit (235), 24.v.2002, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, village (239), linden alley towards cemetery, on *Tilia* sp., 8.viii.2001, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 1 ♂, P. Lauterer lgt. (MMBC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 25.vi.–15.vii.2009, Mt, 1 ♂, 5.–24.viii.2009, 1 ♀, 24.viii.–14.ix.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 8.viii.2001, 3 ♂♂ 1 ♀, 23.ix.2001, 2 ♂♂, P. Kment lgt., 17.vii.2002, 56 ♂♂ 68 ♀♀, 7.ix.2002, 1 ♀, 2.ix.2004, 32 ♂♂ 20 ♀♀, 1.x.2004, 2 ♂♂, 27.vii.2005, 1 ♂ 2 ♀♀, 1.ix.2005, 9 ♂♂ 5 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 8.viii.2001, 4 ♂♂ 3 ♀♀, P. Kment lgt., 24.v.2002, 1 ♀, P. Kment & I. Malenovský lgt., 17.vii.2002, 31 ♂♂ 15 ♀♀, I. Malenovský lgt. (PKPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 22.vi.–15.vii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 8.–28.v.2007, Mt, 3 ♂♂ 1 ♀, 18.vi.–9.vii.2007, Mt, 1 ♀, 9.vii.–2.viii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt., 10.viii.–7.ix.2010,

Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 9.vii.–2.viii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 9.viii.2001, 1 ♀, P. Kment lgt., 23.v.2002, 1 ♀, 20.vii.2002, 10 ♂♂ 9 ♀♀, I. Malenovský lgt. (PKPC). Strání, Záhumenice NM (266), 9.viii.2001, 15 ♂♂ 7 ♀♀, P. Kment lgt., 21.ix.2001, 2 ♂♂ 3 ♀♀, I. Malenovský lgt., 23.v.2002, 1 ♂ 1 ♀, P. Kment lgt., 20.vii.2002, 92 ♂♂ 42 ♀♀, I. Malenovský lgt. (PKPC). Strání, Javorina NNR, meadow (270), 23.vi.–15.vii.2009, Mt, 1 ♀, 15.vii.–6.viii.2009, Mt, 3 ♂♂ 4 ♀♀, 6.–24.viii.2009, Mt, 1 ♂, 17.ix.–21.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Holarctic (except North Africa). **Biology and habitat:** On Poaceae (*Festuca rubra*, *Corynephorus canescens*, *Lolium perenne*). Euryecious, in a variety of open and half-shaded habitats, from xerothermic (e.g. dunes) to humid (e.g. peat bogs) sites, also present in frequently cut lawns in cities. A very common species in general (WACHMANN *et al.* 2004). **Red List status:** –.

Tuponia (Chlorotuponia) hippophaes (Fieber, 1861)

Published records. BRYJA & KMENT (2002): Slavkov, village (103); Velká nad Veličkou, village (222).

Distribution and frequency in the Bílé Karpaty PLA: Found at only two sites in the southern part of the area, confined to ornamental plants and probably undersampled. **General distribution:** Holomediterranean, extending to central Europe. **Biology and habitat:** On *Tamarix* and *Myricaria germanica* (WACHMANN *et al.* 2004). An alien species in the Czech Republic, confined to introduced ornamental plants in towns and villages. Not rare (BRYJA & KMENT 2002, KMENT 2006, HRADIL *et al.* 2008). **Red List status:** –.

Tuponia (Tuponia) elegans (Jakovlev, 1867)

Published record. BRYJA & KMENT (2002): Velká nad Veličkou, in the village (222).

Distribution and frequency in the Bílé Karpaty PLA: Found at only one site in the southern part of the area, confined to ornamental plants and probably undersampled. **General distribution:** Ponto-Mediterranean (expanding in central Europe) and Central Asiatic. **Biology and habitat:** On *Tamarix* (WACHMANN *et al.* 2004). An alien species in the Czech Republic, confined to introduced ornamental plants in towns and villages. More thermophilous than *T. hippophaes*; not rare (BRYJA & KMENT 2002, KMENT 2006, HRADIL *et al.* 2008). **Red List status:** –.

Tythus pygmaeus (Zetterstedt, 1838)

(EN)

Material examined. Žitková, Hutě NR (164), 11.–31.vii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 27.vi.2002, 1 ♀, I. Malenovský lgt. (PKPC). Radějov, Kútky NR (217), 26.vi.–15.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 2.–25.vi.2009, Mt, 3 ♂♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Trnovský Mlýn, meadow (229), 1.ix.2005, 2 ♂♂, I. Malenovský lgt. (PKPC). Javorník, Jazeví NNR (232), 2.–25.vi.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazeví NNR, left-side tributary of Velička river (241), 2.–25.vi.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 3.–23.vi.2009, Mt, 3 ♂♂ 1 ♀, 15.vii.–6.viii.2009, Mt, 3 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

True bugs (Hemiptera: Heteroptera)

Additional material examined. MORAVIA: Čtyři Dvory near Prosetín (6464), 3.vii.1982, on *Carex riparia*, 1 ♂, P. Lauterer lgt. (MMBC). Benešov, part Pavlov (6466), peatbog, 643–660 m a.s.l., 12.x.1978, 1 ♀, P. Lauterer lgt. (MMBC). Netín, SW margin of Vrkoč pond (6661), peatbog with *Carex* stands, 518 a.s.l., 22.viii.1978, 2 ♂♂, P. Lauterer lgt. (MMBC). Závist, margin of Netínský rybník pond (6661), *Carex* and *Glyceria* stands, 516 m a.s.l., 22.viii.1978, 2 ♂♂ 1 ♀, P. Lauterer & L. Pospíšilová lgt. (MMBC). Kamenice, brook below Janův vršek hill (6759), slopes along the brook, 530–540 m a.s.l., 9.vii.1981, 3 ♂♂, L. Pospíšilová lgt. (MMBC). Vladislav, Mlýnský potok valley (6761), wetland vegetation around a pond, 400–425 m a.s.l., 3.vii.1981, 1 ♀, J. L. Stehlík lgt. (MMBC). Lažánky, at brooklet (6764), along the brooklet, 360–390 m a.s.l., 27.vi.1983, 2 ♀♀, P. Lauterer lgt. (MMBC). Březina – Vysoká (6766), 492 m a.s.l., 25.vi.1983, 1 ♀, J. Meduna lgt. (MMBC). Horní Bolíkov, Kobrnatky peatbog (300 m SW of the village) (6857), 650 m a.s.l., 14.viii.1978, 2 ♀♀, L. Pospíšilová lgt. (MMBC). Olšany, 100 m above Pilka pond (6857), peaty meadow, 610 m a.s.l., 5.ix.1978, 1 ♂, L. Pospíšilová lgt. (MMBC). Lesonice, Štěpánský rybník pond (6860), 500–510 m a.s.l., 29.vi.1981, 2 ♂♂ 17 ♀♀, J. L. Stehlík lgt. (MMBC). Osvětimany (6969), steppe, forest clearings and margins, 279–290 m a.s.l., 6.vi.1983, 1 ♀, J. L. Stehlík lgt. (MMBC). Grešlové Mýto (7061), 400–420 m a.s.l., 28.vi.1976, 1 ♀, J. L. Stehlík lgt. (MMBC). Pouzdřany (7065), steppe 250–290 m a.s.l., 1.ix.1978, 1 ♂, P. Lauterer lgt. (MMBC). Vacenovice, south-eastern margin of the village (7069), sands, 24.vi.1974, 1 ♀, P. Lauterer lgt. (MMBC). Mušov, steppe above Duchna forest (7165), 180 m a.s.l., 18.vi.1973, 1 ♂, J. L. Stehlík lgt. (MMBC). Milovice, wet meadows at Dyje river (7166), stands of *Carex acutiformis* and *C. vulpina* with other herbs, 166 m a.s.l., 5.vi.1973, 2 ♂♂ 1 ♀ 1 spec., P. Lauterer lgt. (MMBC). Sedlec, Slanisko u Nesytu NNR (7266), floodplain forest, 25.ix.1999, 1 ♀, M. Horsák lgt. (PKPC). Charvátská Nová Ves, at Tři Grácie monument (7266), 170–180 m a.s.l., 1 ♂, Dočekalová lgt. (MMBC). Charvátská Nová Ves, Boří les forest (7267), forest margin, 184 m a.s.l., 1 ♂, P. Lauterer lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area; most specimens were collected with Malaise traps. **General distribution:** Holarctic (Eurosiberian and Nearctic). **Biology and habitat:** Epigeic, associated with *Juncus* and *Carex* species, rarely also with Poaceae. In humid to wet habitats with sedge stands (e.g. peat bogs and salt marshes), as well as humid to dry grassland (e.g. fallows and coastal dunes). Rare (WACHMANN *et al.* 2004). **Red List status:** Endangered.

Comments. In Moravia recorded only from Závada near Hlučín (6074–75) (ŠTYS 1961) and Otinoves – Odrůvky (65–6667) (STEHLÍK 1971).

Family MICROPHYSIDAE

Loricula (Loricula) elegantula (Baerensprung, 1858)

Material examined. Petrůvka, U Petrůvky NM (14), 3.–23.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Petrůvka, Kladenka brook valley (64), 3.–23.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Žerotín NM (188), 14.v.–4.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Žitková, Hutě NR (164), 29.v.–19.vi.2007, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Radějov, Kůtky NR (217), 4.–26.vi.2008, Mt, 11 ♂♂, 26.vi.–15.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 2.–25.vi.2009, Mt, 4 ♂♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 2.–25.vi.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 6.iv.–12.v.2009, Mt, 1 ♂, 2.–25.vi.2009, Mt, 4 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Hryzlácké Mlýny (246), 3.–22.vi.2009, Mt, 13 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 3.–22.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 15.vi.–13.vii.2010, Mt, 3 ♂♂, 13.vii.–10.viii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 28.v.–18.vi.2007, Mt, 8 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt., 24.v.–15.vi.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 28.v.–18.vi.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 3.–23.vi.2009, Mt, 3 ♂♂, 23.vi.–15.vii.2009, Mt, 21 ♂♂, 6.–24.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, although probably undersampled: all specimens (all macropterous males, except one brachypterous female) were collected with Malaise traps. **General distribution:** European. **Biology and habitat:** Zoophagous. On trunks of deciduous trees (e.g. *Acer*, *Platanus*, *Quercus*, *Fagus*, *Fraxinus*, *Prunus*, and *Pyrus*) and conifers (e.g. *Pinus*, *Abies*, *Picea*, and *Larix*) covered with lichens (*Parmelia*, *Cladonia*) or mosses. Widespread, but rarely collected (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia previously recorded only by KMENT *et al.* (2003) from Javorník (Račí údolí valley, 5667) in the Rychlebské hory Mts., Ostravice (6467), Brno-Kniničky (6765), Lednice (Horní les floodplain forest, 7166), and Lanžhot (at the confluence of the Morava and Dyje rivers, 7367).

Loricula (Loricula) pselaphiformis Curtis, 1833

Material examined. Petrůvka, U Petrůvky NM (14), 3.–23.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Svatý Štěpán, Chladný vrch NM (93), 12.vi.2007, 1 ♀, O. Konvička lgt. (OKZC). Žitková, Hutě NR (164), 9.–29.v.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Radějov, Kútky NR (217), 4.–26.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Mandát brook valley below Kútky NR (218), 14.v.–4.vi.2008, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevěčí NNR (232), 12.v.–2.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevěčí NNR, left-side tributary of Velička river (241), 12.v.–2.vi.2009, Mt, 3 ♂♂, 2.–25.vi.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Hryzlácké Mlýny (246), 12.v.–3.vi.2009, Mt, 1 ♂, 3.–22.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 24.v.–15.vi.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 8.–28.v.2007, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 3.–23.vi.2009, Mt, 14 ♂♂, 23.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, although probably undersampled; all specimens – males – were collected with Malaise traps. **General distribution:** Holarctic (West Eurosiberian and Canada). **Biology and habitat:** Zoophagous. On deciduous trees (*Salix*, *Populus*, *Fraxinus*), rarely conifers, especially in moist, shaded places, dwelling on trunks and branches covered with lichens, but also on fallen wood or stones covered with lichens. Widespread, but rare (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. In Moravia recorded only from the Rychlebské hory Mts.: Nové Vilémovice (5667) (ŠTYS 1959).

Loricula (Loricula) ruficeps (Reuter, 1884)

(Fig. 7)

Material examined. Petrůvka, U Petrůvky NM (14), 23.vi.–16.vii.2008, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected with a Malaise trap at only one locality in the northern part of the area. **General distribution:** European, extending to Transcaucasia and north-western Iran. **Biology and habitat:** Zoophagous. On trunks of deciduous trees (*Tilia*, *Quercus*, *Malus*, *Acer*) and conifers (*Pinus*, *Abies*, *Picea*) covered with lichens (*Parmelia*, *Hypogymnia*). Very rare, preferring mountain regions (WACHMANN *et al.* 2004). **Red List status:** –.

Comments. For the Czech Republic, only ROUBAL (1969) reported one immature female collected on *Tilia* sp. in Albeřice (52–5361) in the Krkonoše Mts. in Bohemia. We provide here the first record for Moravia.

***Loricula (Myrmedobia) exilis* (Fallén, 1807)**

Material examined. Petrůvka, U Petrůvky NM (14), 3.–23.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Poteč, Ploščiny NR (42), 1.vi.2002, sweeping, 19 ♂♂, I. Malenovský lgt., 17.viii.2006, 2 ♂♂, P. Kment lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 30.vi.2004, sweeping, 14 ♂♂, I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 9.–29.v.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Radějov, Žerotín NM (188), 4.–26.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Kútky NR (217), 7.vi.2008, 1 ♂, J. Ch. Vávra lgt. (OMOC). Radějov, Mandát brook valley below Kútky NR (218), 4.–26.vi.2008, Mt, 1 ♂, 26.vi.–15.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 2.–25.vi.2009, Mt, 3 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Additional material examined. MORAVIA: Šilheřovice, Černý les forest (6075), *Fagetum*, polypore, 8.ix.2002, 1 ♀, M. Mantič lgt. (MMHC). Hlučín, Bobrovníky, rocks above Opavice river (6175), *Quercetum*, sifting of litter, 25.viii.2001, 2 ♀♀, M. Mantič lgt. (MMHC, PKPC). Hlučín, Bobrovníky, *Quercetum* above river (6175), sifting of moss on *Quercus*, 12.x.2001, 1 ♀, M. Mantič lgt. (MMHC). Hlučín, Vinná hora Mt. (6175), *Carpineto-Betuletum*, 20.x.2001, 1 ♀, M. Mantič lgt. (PKPC). Hukvaldy, deergame park (6375), moss at feet of the trees, 21.x.2001, 1 ♀, M. Mantič lgt. (MMHC). Skalice, Skalická Strážnice (6376), sifting of compost, 19.viii.2002, 1 ♀, M. Mantič lgt. (MMHC). Horní Dubenky, along the brook towards Nová Ves (6757), *Caricetum* on peatbog, wet and peaty meadows, 680–690 m a.s.l., 13.ix.1978, 1 ♀, P. Lauterer lgt. (MMBC). Brno – Kníničky (6765), 1977, 1 ♂, 1978, 1 ♂ 1 ♀, 1980, 1 ♂ 1 ♀, collector not indicated (Coll. Dobšík, MMBC). Milotice, Pisečný rybník NR (7068), 30.vii.2009, 1 ♀, M. Horsák lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, but probably undersampled. **General distribution:** Holarctic (Eurosiberian and Nearctic). **Biology and habitat:** Zoophagous. On conifers, often on acidic soils, also occurring in mosses and lichens on the ground. Males are often swept from grasses during the mating period. Widespread; seldom collected, but not rare (WACHMANN *et al.* 2004), sometimes being a dominant species in quantitative samples (DOBŠÍK & KRÍSTEK 1979, BRYJA & KULA 2000). **Red List status:** –.

Comments. In Moravia previously recorded only from the Oslava river valley near Gloriet (6862b) (STEHLÍK 1944, as *Myrmedobia tenella*), several localities in the Hrubý Jeseník Mts. (STEHLÍK 1952, as *Myrmedobia tenella*), and a spruce monoculture near Rájec (6167) (DOBŠÍK & KRÍSTEK 1979, as *Myrmedobia tenella*; 1982, as *Myrmedobia exilis*).

The genus *Myrmedobia* Baerensprung, 1857 was downgraded to a subgenus of *Loricula* Curtis, 1833 by POPOV (2004).

Family NABIDAE

***Himacerus (Aptus) mirmicoides* (O. Costa, 1834)**

Material examined. Petrůvka, U Petrůvky NM (14), 6.viii.1999, 3 ♀♀ (br), P. Kment lgt. (MUBC, PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 L., P. Kment & I. Malenovský lgt. (PKPC). Nedašov, village (51), 17.viii.2006, 1 ♂ 1 ♀ (br), P. Kment lgt. (PKPC). Petrůvka, Kladenka brook valley (64), 23.ix.–29.x.2008, Mt, 1 ♀ (br), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Štítná nad Vláří, south-exposed slopes N of the village (74), 10.vii.2006, 1 L., O. Konvička lgt. (NMPC). Bylnice, railway station environs (83),

11.ix.1999, 1 ♀ (br), I. Malenovský & T. Vymyslický lgt. (PKPC). Sidonie env. (88), 27.vi.1998, 1 ♀ (br), V. Vrabec & L. Vrabcová lgt. (VVKC). Nedašov, Pod Cigánem NM (91), 28.vii.2005, 1 L, I. Malenovský lgt. (PKPC). Hluk, Kobylí hlava NM (101), 24.viii.2002, 2 ♀♀ (br) 1 L5, I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 24.v.2009, 1 ♂ 2 ♀♀ (br), 16.viii.2009, 4 ♂♂ 3 ♀♀ (br), P. Baňář lgt. et det. (MMBC). Suchov, Kazivec brook valley (116), 9.ix.1998, 1 ♀ (br), I. Malenovský & M. Omesová lgt. (PKPC). Horní Němčí, Drahy NR (117), 10.ix.1998, 1 ♀ (br), I. Malenovský & M. Omesová lgt. (PKPC). Korytná, valley N of Nové louky NM (140), 15.viii.1999, 1 ♂ (br), M. Horsák lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 L, 8.viii.2007, 1 ♂ 2 ♀♀ (br), P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 3 L, P. Kment lgt. (PKPC). Vyškovecké Bošacky, cattle pasture (179), 27.vi.2004, 2 L2, 21.v.2005, 1 ♂ (br), I. Malenovský lgt. (PKPC). Petrov (182), 24.v.1965, 1 ♂ (br), L. Pospíšilová lgt. (MMBC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 19.viii.2002, 2 ♂♂ (br), P. Kment lgt. (PKPC); 30.viii.2005, *Quercetum pubescentis* and vineyards, 1 ♀ (br), M. Horsák lgt. (MHBC). Kněždub, Kněždubský háj forest (197), 20.ix.2001, 1 ♀ (br), M. Omesová lgt. (MUBC). Malá Vrbka, village (206), on *Tilia* sp., 16.viii.2000, 1 ♀ (br), P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 5.v.2000, 1 ♂ 1 ♀ (br), I. Malenovský lgt., 25.v.2000, 1 ♂ (br), P. Kment lgt., 18.vi.2000, 1 L2 2 L3 1 L4, I. Malenovský lgt. (PKPC). Hrubá Vrbka, football ground (211), 8.vii.2000, 1 L5, P. Kment lgt. (PKPC). Velká nad Veličkou, below Zahrady pod Hájem NNR (221), 19.vi.2000, 1 L5, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 1 L4, P. Kment lgt., 9.–10.ix.2000, 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 1 L, I. Malenovský lgt., 18.viii.2000, 1 L5, P. Kment lgt. (PKPC). Javorník, village (239), 8.viii.2001, 2 ♂♂, P. Kment lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 17.viii.–18.ix.2003, pt, 1 ♀ (br), K. Resl lgt. (PKPC). Vápenky, Porážky NNR (247), 9.ix.1998, 1 ♀ (br), I. Malenovský & M. Omesová lgt. (PKPC). Vápenky, Velička brook valley below Hubertova bouda hut (253), 21.viii.2002, 1 L5, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: European and Holomediteranean. **Biology and habitat:** Zoophagous. Euryecious, in xerothermic localities with low vegetation as well as humid sites with shrubs. Common (WACHMANN *et al.* 2006). **Red List status:** –.

Himacerus (Himacerus) apterus (Fabricius, 1798)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 25.viii.–23.ix.2008, Mt, 1 ♀ (br), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, NW slope of Královec hill (35), 10.ix.1999, 1 ♀ (br), I. Malenovský & T. Vymyslický lgt. (PKPC). Poteč, Ploštiny NR (42), 17.viii.2006, 1 ♂ (br), P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 13.–16.viii.2007, ypt, 1 ♀ (br), J. Ježek lgt. (NMPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 14.viii.2006, 1 ♀ (br), P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 L, P. Kment & I. Malenovský lgt. (PKPC); 13.–16.viii.2007, 1 ♀ (br), J. Ježek lgt. (NMPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 1 L5, P. Kment & I. Malenovský lgt., 16.viii.2006, 1 ♂ (br), P. Kment lgt. (PKPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 3 ♂♂ 1 ♀ (br), J. L. Stehlík & L. Pospíšilová lgt. (MMBC). Petrůvka, Kladenka brook valley (64), 3.–23.vi.2008, Mt, 4 L3, 23.vi.–16.vii.2008, Mt, 5 L5, 16.vii.–4.viii.2008, Mt, 4 ♂♂ 2 ♀♀ (br), 4.–25.viii.2008, Mt, 8 ♂♂ 7 ♀♀ (br), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♂ (br), 18.viii.2006, 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Bylnice, Lazy NR and environs (82), 12.ix.1999, 1 ♀ (br), I. Malenovský & T. Vymyslický lgt. (PKPC). Bylnice, railway station environs (83), 11.ix.1999, 1 ♀ (br), I. Malenovský & T. Vymyslický lgt. (PKPC). Sidonie, Sidonie NR (87), 16.vi.–5.vii.2010, Mt, 1 L, P. Chvojka & J. Macek lgt. (NMPC). Sidonie, Vlárka brook valley (92), 8.ix.1981, 2 ♀♀ (br), L. Pospíšilová lgt. (MMBC). Boršice u Blatnice, Boršický potok brook valley (105), 16.viii.1984, 1 ♂ 2 ♀♀ (br), J. L. Stehlík lgt. (MMBC). Horní Němčí, Drahy NR (117), 13.viii.2001, 1 ♀ (br), P. Kment lgt. (PKPC). Bánov, Skalky hill (125), 21.viii.1984, 1 ♂ (br), J. L. Stehlík lgt. (MMBC). Komňa, Nový Dvůr (129), 21.viii.1984, 1 ♀ (br), J. L. Stehlík lgt. (MMBC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 24.vii.2005, 2 ♂♂ (br), P. Kment lgt. (PKPC). Žitková, Hutě NR (164), 11.–31.vii.2007, Mt, 1 ♂ (br), P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 1 L, 8.viii.2007, 1 ♀ (br), 22.ix.2007, 1 ♀ (br), P. Kment lgt.

True bugs (Hemiptera: Heteroptera)

(PKPC). Vyškovec, Pod Hřibovňou NM (176), 24.vii.2005, 1 ♂ (ma) 6 ♂♂ 5 ♀♀ (br), P. Kment lgt. (PKPC). Vyškovské Bošačky, cattle pasture (179), 24.vii.2005, 8 ♂♂ 9 ♀♀ (br), P. Kment lgt. (PKPC). Vyškovské Bošačky, meadow and orchard (180), 24.vii.2005, 46 ♂♂ 33 ♀♀ (br), P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 26.viii.–24.ix.2008, Mt, 1 ♀ (br), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Radějovka brook valley below Čertoryje (198), 8.vii.2000, 1 ♀ (br), 17.viii.2000, 1 ♂ (br), P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 12.viii.–9.ix.2010, Mt, 1 ♀ (br), 9.ix.–22.x.2010, Mt, 1 ♀ (br), P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, Výzkum hill, restored grassland (208), 18.vi.2000, 1 ♂ (br), I. Malenovský lgt. (PKPC). Radějov, Měsíční údolí valley (214), along road to Radějov, 16.viii.2009, 1 ♀ (br), P. Kment lgt. (PKPC). Radějov, Mandát brook valley below Kútky NR (218), 15.vii.–5.viii.2008, Mt, 1 ♂ (br), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, below Zahrady pod Hájem NNR (221), 19.vi.2000, 1 L4, P. Kment lgt. (PKPC). Velká nad Veličkou, old cemetery (223), 18.viii.2000, 1 ♀ (br), P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 1 L4, P. Kment lgt., 18.viii.2000, 2 ♀♀ (br), P. Kment lgt., 9.–10.ix.2000, 3 ♀♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 1 L, I. Malenovský lgt., 10.ix.2000, 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 5.–24.viii.2009, Mt, 1 ♂ (br), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Hryzlácké Mlýny (246), 15.vii.–4.viii.2009, Mt, 1 ♀ (br), 4.–24.viii.2009, Mt, 3 ♂♂ (br), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 16.ix.–21.x.2009, Mt, 1 ♀ (br), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 12.viii.–9.ix.2010, Mt, 1 ♂ (br), P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Eurosiberian, introduced to Canada. **Biology and habitat:** Zoophagous. Euryecious, adults and older larvae live on a range of trees and shrubs, young larval instars also dwell on herbaceous vegetation. Common (WACHMANN *et al.* 2006). **Red List status:** –.

Himacerus (Stalia) boops (Schiodte, 1870)

Material examined. Horní Němčí, Drahy NR (117), 22.v.–22.vi.2003, pt, 1 L5, K. Resl lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only with a pitfall trap at one locality in the southern part of the area. **General distribution:** Eurosiberian. **Biology and habitat:** Zoophagous. Euryecious, inhabiting a wide range of open habitats (e.g. wet meadows, pastures, dry heathland, xerothermic sites with sparse vegetation, and saltmarshes); epigeic, with a nocturnal activity (KMENT *et al.* 2003, WACHMANN *et al.* 2006). **Red List status:** –.

Comments. Very rare in Moravia, so far known only from four localities (KMENT *et al.* 2003).

Nabis (Dolichonabis) limbatus Dahlbom, 1851

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 6.viii.1999, 1 ♂ 1 ♀ (mi), P. Kment lgt. (PKPC). Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 2 ♀♀ (mi, freshly hatched), M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 2.vii.1999, 2 ♂♂ 1 ♀ (mi, 1 ♀ freshly hatched), P. Kment & I. Malenovský lgt., 10.ix.1999, 1 ♂ 1 ♀ (mi), I. Malenovský & T. Vymyslický lgt. (MHBC, PKPC). Valašské Klobouky, Královec hill (33), 17.viii.2006, 1 ♀ (mi), P. Kment lgt. (PKPC). Valašské Klobouky, NW slope of Královec hill (35) and U Rybníků (38), 10.ix.1999, 1 ♀ (mi), I. Malenovský lgt. (PKPC). Valašské Klobouky, U Rybníků (38), 2.vii.1999, 1 ♂ (mi), M. Horsák & P. Kment lgt. (PKPC). Poteč, Ploštiny NR (42), 4.vii.1999,

2 ♂♂ (mi), P. Kment & I. Malenovský lgt., 13.ix.1999, 1 ♀ (mi), I. Malenovský & T. Vymyslický lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 30.vi.1999, 1 ♀ (mi), M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 2 ♀♀ (mi), P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Hrušová dolina valley (53), 3.vii.1999, 1 ♂ (mi), P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráň NR (54), 12.vii.2006, 1 ♀ (mi), P. Kment & I. Malenovský lgt., 16.viii.2006, 1 ♂ (mi), P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55), 3.vii.1999, 2 ♂♂ (mi), 12.vii.2006, 3 ♀♀ (mi), P. Kment & I. Malenovský lgt., 16.viii.2006, 2 ♀♀ (mi), P. Kment lgt. (PKPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 1 ♂ 4 ♀♀ (mi), J. L. Stehlík lgt. (MMBC). Hostětín (70), 10.viii.1970, 2 ♂♂ 4 ♀♀ (mi, 1 ♂ 1 ♀ in copula), L. Pospíšilová lgt. (MMBC). Sidonie, Vlárka brook valley (92), 8.ix.1981, 1 ♂ (mi), L. Pospíšilová lgt. (MMBC). Suchov, Kazivec brook valley (116), 9.ix.1998, 1 ♀ (mi), I. Malenovský & M. Omesová lgt. (PKPC). Bánov, Skalky hill (125), 21.viii.1984, 1 ♂ 1 ♀, J. L. Stehlík lgt. (MMBC). Strání, Klanečnice brook valley between village and Žabka reservoir (143), 10.vii.1998, 2 ♂♂ (mi), P. Kment lgt. (PKPC). Lopeník, Mikulčín vrch hill (160), 17.vii.1964, 1 ♀, J. L. Stehlík lgt.; 24.vii.2005, spruce forest margin, 2 ♀♀, I. Malenovský lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 2 ♂♂ (mi), P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 1 ♀ (mi), P. Kment lgt. (PKPC). Výškovec, Pod Hribovou NM (176), 24.vii.2005, 1 ♂ 3 ♀♀ (mi), P. Kment lgt. (PKPC). Radějov, Holý vrch hill (189), 4.vii.1977, 2 ♂♂ 1 ♀ (mi), L. Pospíšilová lgt. (MMBC). Kněždub, Kněždubský háj forest (197), 28.vii.2001, 1 ♀ (mi), P. Kment lgt. (PKPC). Kněždub, Kněždubský háj forest (197) and Radějovka brook valley (198), 17.vi.2000, 2 ♂♂ (mi), P. Kment lgt. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 17.vi.2000, 1 ♂ (mi), P. Kment lgt. (PKPC). Radějov, Měsíční údolí valley (214), along road to Radějov, 16.viii.2009, 1 ♂ (mi), P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 2 ♂♂ 1 ♀ (mi), P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 1 ♀ (mi), I. Malenovský lgt., 18.viii.2000, 2 ♂♂ 4 ♀♀ (mi), P. Kment lgt. (PKPC). Javorník, village (239), 8.viii.2001, 1 ♀ (mi), P. Kment lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 25.vi.–15.vii.2009, Mt, 1 ♂ (mi), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 5.–24.viii.2009, Mt, 1 ♂ 1 ♀ (mi), 24.viii.–16.ix.2009, Mt, 1 ♀ (mi), 16.ix.–21.x.2009, Mt, 1 ♀ (mi), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 18.vi.–9.vii.2007, Mt, 1 ♀ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 21.viii.2002, 2 ♂♂, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Eurosiberian, introduced to Canada. **Biology and habitat:** Zoophagous. Hygrophilous, found largely on vegetation in open to half-shaded humid habitats, forest clearings and along forest edges, more rarely in drier places. Common (WACHMANN *et al.* 2006). **Red List status:** –.

Nabis (Nabicula) flavomarginatus (Scholz, 1847)

Published records. KMENT (2001): Kněždub, Čertoryje NNR (202). KMENT & MALENOVSKÝ (2008): Strání, Záhumenice NM (266).

Material examined. Petrůvka, U Petrůvky NM (14), 6.viii.1999, 1 ♂ 1 ♀ (br), P. Kment lgt. (PKPC). Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 3 ♂♂ 5 ♀♀ (br), M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 1 ♂ 1 ♀ (br, 1 ♀ freshly hatched), P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 2.vii.1999, 2 ♂♂ 2 ♀♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Poteč, Ploštiny NR (42), 4.vii.1999, 2 ♂♂ 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Brumov, Uhličky (44), 4.ix.2005, 1 ♂ (br), P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♂ (br) 1 ♀ (ma), P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Hrušová dolina valley (53), 3.vii.1999, 1 ♀ (ma), P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráň NR (54), 3.vii.1999, 1 ♂ 3 ♀♀ (ma) 2 ♂♂ 2 ♀♀ (br), P. Kment & I. Malenovský lgt. (MHBC, PKPC); 16.viii.2006, 1 ♀ (ma), P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55), 3.vii.1999, 1 ♀ (br), 12.vii.2006, 1 ♂ 1 ♀ (br), P. Kment & I. Malenovský lgt., 16.viii.2006, 1 ♀ (br), P. Kment lgt. (PKPC). Luhačovice, Luhačovická dolina valley (62), 6.viii.1980, 1 ♀ (ma) 1 ♂ 4 ♀♀ (br), J. L. Stehlík & L. Pospíšilová lgt. (MMBC). Slavičín (69), 10.vii.1989, 4 ♂♂ 3 ♀♀ (br), I. Vavřínová lgt. (MMBC). Popov, Havránkův potok brook valley (71), 6.viii.1980, 1 ♂ 3 ♀♀

True bugs (Hemiptera: Heteroptera)

(br), L. Pospíšilová & J. L. Stehlík lgt. (MMBC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 1 ♀ (br), P. Kment & M. Omesová lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 28.vii.2005, 1 ♀ (br), I. Malenovský lgt. (PKPC). Sidonie, Vlárka brook valley (92), 8.ix.1981, 1 ♀ (br), L. Pospíšilová lgt. (MMBC). Horní Němčí, Drahy NR (117), 30.vi.2001, 5 ♂♂ (br), P. Kment & I. Malenovský lgt., 13.viii.2001, 1 ♀ (br), P. Kment lgt., 21.vii.2002, 4 ♂♂ 4 ♀♀ (br), I. Malenovský lgt. (PKPC). Horní Němčí, Vinohrádky (121), 20.vii.2002, 1 ♀ (br), I. Malenovský lgt. (PKPC). Březová, Kalábová NM (137), 4.vii.2001, 1 ♀ (br) (freshly hatched), P. Kment & I. Malenovský lgt. (PKPC). Lopeník, U Zvonice NM (155), 27.vi.2004, 1 ♂ 1 ♀ (br), 24.vii.2005, 3 ♂♂ 1 ♀ (br), I. Malenovský lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 18.viii.2004, 1 ♀ (br), P. Kment lgt. (PKPC). Žitková, Hutě NR (164), 31.vii.–21.viii.2007, Mt, 1 ♀ (br), P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♀ (br), P. Kment lgt. (PKPC). Vápenice, V Krátkých (170), 6.vii.2001, 1 ♂ (br), P. Kment & I. Malenovský lgt. (PKPC). Výskovec, Pod Hřibovnou NM (176), 28.vi.2004, 4 ♂♂ 4 ♀♀ (br), I. Malenovský lgt., 24.vii.2005, 8 ♂♂ 9 ♀♀ (br), P. Kment lgt., 3.ix.2005, 1 ♀ (br), I. Malenovský lgt. (PKPC). Výskovecké Bošačky, cattle pasture (179), 3.ix.2005, 1 ♀ (br), I. Malenovský lgt. (PKPC). Radějov, Holý vrch hill (189), 4.vii.1977, 2 ♀♀ (br), L. Pospíšilová lgt. (MMBC). Kněždub, Čertoryje NNR (202), 27.vi.2002, 2 ♂♂ (br), I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 18.vi.2000, 1 ♀ (ma), I. Malenovský lgt., 16.viii.2000, 1 ♀ (br), P. Kment lgt., 22.vi.2001, 3 ♂♂ 1 ♀ (br), P. Kment & I. Malenovský lgt., 28.vii.2001, 2 ♂♂ (br), 27.vi.2002, 8 ♂♂ 6 ♀♀ (br), I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 19.vi.2000, 1 ♂ (br), P. Kment & I. Malenovský lgt., 8.vii.2000, 1 ♀ (br), P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 13.vii.1998, 2 ♂♂ 5 ♀♀ (br), 19.vi.2000, 1 ♂ 1 ♀ (br), P. Kment lgt. (PKPC). Suchovské Mlýny, meadow (227), 27.vii.2005, 1 ♂ 1 ♀ (br), I. Malenovský lgt. (PKPC). Trnovský Mlýn, meadow (229), 1.ix.2005, 1 ♀ (br), I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 15.vii.1998, 1 ♂ (br) 1 ♀ (ma), I. Malenovský & M. Omesová lgt., 19.vi.2000, 3 ♂♂ (br) 1 ♀ (ma), I. Malenovský lgt., 18.viii.2000, 1 ♂ (br), P. Kment lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 4 ♂♂ 1 ♀ (br), I. Malenovský lgt., 8.viii.2001, 2 ♂♂ 1 ♀, P. Kment lgt., 17.vii.2002, 1 ♂ 1 ♀ (br), I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 29.vi.2001, 1 ♀ (br), P. Kment lgt., 17.vii.2002, 1 ♀ (br), I. Malenovský lgt. (PKPC). Nová Lhota, Fojtické Mlýny (245), 24.vii.1980, 6 ♂♂ 5 ♀♀ (br), L. Pospíšilová & J. L. Stehlík lgt. (MMBC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 15.vi.–13.vii.2010, Mt, 1 ♂ (br), P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 9.vii.1998, 3 ♂♂ (br) 2 ♀♀ (ma) 2 ♀♀ (br), P. Kment lgt. (PKPC). Strání, Záhumenice, cattle pasture (265), 2.vii.2001, 1 ♂ 3 ♀♀ (br), 20.vii.2002, 1 ♂ 3 ♀♀ (br), I. Malenovský lgt. (PKPC). Strání, Záhumenice NM (266), 2.vii.2001, 1 ♀ (br), P. Kment & I. Malenovský lgt., 9.viii.2001, 2 ♂♂ 2 ♀♀ (br), P. Kment lgt., 20.vii.2002, 1 ♂ 3 ♀♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Strání, Javorina NNR, meadow (270), 4.vii.2001, 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC); 23.vi.–15.vii.2009, Mt, 1 ♂ (br) 1 ♀ (ma), 15.vii.–6.viii.2009, Mt, 1 ♀ (ma), 6.–24.viii.2009, Mt, 1 ♂ 1 ♀ (br), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Holarctic (Eurosiberian and Nearctic). **Biology and habitat:** Zoophagous. Hygrophilous, found largely on tall herbaceous vegetation in open to half-shaded humid habitats, especially wet and mesic meadows. Common (WACHMANN *et al.* 2006). **Red List status:** –.

Nabis (Nabis) brevis Scholz, 1847

Published records. HOBERLANDT (1944, misidentified as *Nabis rugosus* f. *ericetorum*): Javorník (7171). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Suchý vrch hill (24), 21.v.1999, 1 ♂, M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Brumovka brook valley (29), 19.v.1999, 1 ♂, P. Kment & I. Malenovský lgt., 30.vi.1999, 1 ♀, M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Královec hill (33), 10.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Valašské Klobouky, Na Nivách (34), 9.ix.1999, 2 ♂♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Brumov, Uhličky (44), 1.ix.2004, 4 ♂♂ 1 ♀, I. Malenovský lgt., 28.vii.2005, 1 ♂, 4.ix.2005, 1 ♀, P. Kment lgt. (PKPC). Brumov, Uhličky and Kloboucká street (44, 76),

8.v.2004, 1 ♀, P. Kment lgt. (PKPC). Nedašov, village (51), 17.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Nedašov, Hrušová dolina valley (53), 3.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 20.v.1999, 3 ♂♂ 2 ♀♀, P. Kment & I. Malenovský lgt., 3.vii.1999, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt., 25.viii.2002, 1 ♀, P. Kment lgt., 30.vi.2004, 1 ♀, 1.ix.2004, 1 ♂ 5 ♀♀, 28.v.2005, 1 ♀, 16.vi.2006, 1 ♂, I. Malenovský lgt., 16.viii.2006, 2 ♀♀, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54) and along road to Nedašov (52), 10.ix.1999, 2 ♂♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Kaňoury NM (55), 20.v.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Štítná nad Vláří, south-exposed slopes N of the village (74), 10.vii.2006, 1 ♂, O. Konvička lgt. (NMPC). Brumov, Kloboucká street (76), 30.vi.2004, 3 ♀♀, 2.ix.2004, 3 ♂♂ 3 ♀♀, 28.v.2005, 2 ♂♂, I. Malenovský lgt., 4.ix.2005, 4 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 2 ♀♀, 18.viii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Bylničky, Tarandové hill (80), 24.vi.1982, 1 ♂, P. Lauterer lgt. (MMBC). Bylnice, railway station environs (83), 11.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 1.ix.2004, 6 ♂♂ 4 ♀♀, 5.x.2004, 1 ♀, 6.ix.2005, 6 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Sidonie, Vlárka brook valley (92), 8.ix.1981, 2 ♂♂ 4 ♀♀, L. Pospíšilová lgt. (MMBC). Hluk, Babí hora NM (102), 24.viii.2002, 1 ♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 11.vii.2009, 4 ♂♂ 5 ♀♀, 16.viii.2009, 3 ♀♀, P. Baňář lgt. et det. (MMBC). Louka, Hloží NR (106), 24.iv.1999, 1 ♂, M. Horský lgt. (PKPC). Horní Némčí, Drahy NR (117), 10.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt., 21.ix.2001, 1 ♂, P. Kment lgt. (PKPC). Strání, Důbrava hill (150), 7.vii.1980, 1 ♀, P. Lauterer lgt. (MMBC). Lopeník, U Zvonice NM (155), 21.v.2005, 1 ♂, I. Malenovský lgt., 25.ix.2004, 1 ♂, 1 ♀, 3.ix.2005, 5 ♂♂ 3 ♀♀, P. Kment lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 20.v.–25.vi.2005, pt, 1 ♀, K. Resl lgt. (PKPC). Vyškovec, Pod Hřibovňou NM (176), 25.ix.2004, 2 ♂♂, P. Kment lgt., 3.ix.2005, 6 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Vyškovcecké Bošačky, cattle pasture (179), 25.ix.2004, 1 ♂ 1 ♀, P. Kment lgt., 3.ix.2005, 5 ♀♀, I. Malenovský lgt. (PKPC). Vyškovcecké Bošačky, meadow and orchard (180), 19.viii.2004, 1 ♂, 25.ix.2004, 1 ♂, P. Kment lgt., 21.v.2005, 1 ♀, I. Malenovský lgt. (PKPC). Petrov (182), 24.v.1965, 1 ♂, L. Pospíšilová lgt. (MMBC). Petrov, Chorvátky (185), 19.viii.2002, 4 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 25.v.2000, 1 ♀, P. Kment lgt., 27.vii.2000, 1 ♂, I. Malenovský lgt., 2.v.2001, 1 ♂, 20.ix.2001, 1 ♀, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 8.vii.2000, 1 ♂, 16.viii.2000, 2 ♂♂ 4 ♀♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 18.iv.2000, 3 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt., 19.vi.2000, 1 ♀, P. Kment lgt., 9.–10.ix.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Suchové Mlýny, sheep pasture (226), 27.vii.2005, 1 ♂, I. Malenovský lgt. (PKPC). Suchové Mlýny, meadow (227), 26.v.2005, 1 ♂, 27.vii.2005, 1 ♂, 1.ix.2005, 2 ♂♂, I. Malenovský lgt. (PKPC). Javorník, Jazevě NNR (232), 15.vii.1998, 1 ♂, I. Malenovský & M. Omesová lgt., 6.v.2000, 3 ♀♀, 19.vi.2000, 1 ♂, I. Malenovský lgt., 18.viii.2000, 1 ♀, P. Kment lgt., 10.ix.2000, 2 ♂♂ 2 ♀♀, 3.v.2001, 2 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Javorník, loampit (235), 24.v.2002, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Nad Vápenkou NM (236), 7.ix.2002, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, village (239), 8.viii.2001, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 3.v.2001, 1 ♂, P. Kment & I. Malenovský lgt., 7.ix.2002, 1 ♀, 2.ix.2004, 1 ♂ 2 ♀♀, 26.v.2005, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 3.v.2001, 4 ♂♂ 2 ♀♀, P. Kment & I. Malenovský lgt., 23.ix.2001, 3 ♂♂ 2 ♀♀, P. Kment lgt., 17.vii.2002, 1 ♂, 7.ix.2002, 2 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Vápenky, Porážky NNR (247), 9.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt. (PKPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 12.v.–3.vi.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Vápenky, Velička brook valley below Hubertova bouda hut (253), 21.viii.2002, 1 ♂ 1 ♀ (1 ♀ freshly hatched), P. Kment lgt. (PKPC). Javorník, Machová NR (259), 14.v.1998, 1 ♂, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Eurosiberian. **Biology and habitat:** Zoophagous. Euryecious, in various open grassland habitats, humid as well as dry. Common (WACHMANN *et al.* 2006).

Red List status: —.

[*Nabis (Nabis) ericetorum* Scholtz, 1847]

Published record. HOBERLANDT (1944, as *Nabis rugosus* f. *ericetorum*): Javorník (7171).

Comments. An Atlantic species, extending into central Europe, inhabiting dry to humid heathland, associated with *Calluna* (WACHMANN *et al.* 2006). In Moravia known only from the Rychlebské hory Mts.: Ostružná (5868) (ŠTYS 1959). Collection specimens corresponding to the records by HOBERLANDT (1944, as *Nabis rugosus* f. *ericetorum*) were later revised (R. Remane 1955 revid., NMPC) and turned out to be misidentified: the specimen from Javorník in the Bílé Karpaty PLA belongs to *N. brevis*, a specimen from Bořetice (7067) to *N. rugosus*.

Nabis (Nabis) ferus (Linnaeus, 1758)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Nedašov, Pod Cigánem NM (91), 5.x.2004, 1 ♂, I. Malenovský lgt. (PKPC). Kněždub, Čertoryje NNR (202), 27.vi.2002, 1 ♀, I. Malenovský lgt., 4.x.2002, 4 ♂♂, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 9.ix.–22.x.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, Výzkum hill, restored grassland (208), 4.x.2002, 2 ♂♂, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 18.iv.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Suchovské Mlýny, sheep pasture (226), 1.x.2004, 1 ♂, I. Malenovský lgt. (PKPC). Suchovské Mlýny, meadow (227), 1.x.2004, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 17.vii.2002, 2 ♀♀, 2.ix.2004, 1 ♀, 1.ix.2005, 1 ♂, I. Malenovský lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 16.ix.–22.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 7.iv.–5.v.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread in the southern part of the area, rare elsewhere. **General distribution:** Eurosiberian and Central Asiatic.

Biology and habitat: Zoophagous. Euryecious, in various open to half-shaded grassland habitats, humid as well as moderately dry (WACHMANN *et al.* 2006). Less frequent than *N. pseudoferus*, although it may be a dominant species of *Nabis* s. str. in floodplain meadows, as demonstrated in the Poodří PLA in northern Moravia by BRYJA & KMENT (2001). **Red List status:** –.

Nabis (Nabis) pseudoferus pseudoferus Remane, 1949

Published records. KMENT (2001), KMENT & MALENOVSKÝ (2008): Kněždub, Čertoryje NNR (202). KMENT & MALENOVSKÝ (2008): Strání, Záhumenice NM (266).

Material examined. Valašské Klobouky, Brumovka brook valley (29), 9.ix.1999, 1 ♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 10.ix.1999, 2 ♂♂, I. Malenovský & T. Vymyslický lgt., 14.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Valašské Klobouky, Královec hill (33), 17.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Poteč, Ploščíny NR (42), 24.viii.2002, 1 ♂ 1 ♀, 17.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Brumov, Uhlíčky (44), 1.ix.2004, 1 ♂ 3 ♀♀, I. Malenovský lgt., 28.vii.2005, 1 ♂ 1 ♀, 4.ix.2005, 4 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 23.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráň NR (54), 16.viii.2006, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55), 16.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Nedašov, meadow E of Jalovcová stráň NR (59), 30.vi.2004, 2 ♀♀, I. Malenovský lgt. (PKPC). Petruvka, Kladenka brook valley (64), 23.ix.–29.x.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Hostětín (70), 10.viii.1970, 1 ♂, L. Pospíšilová lgt. (MMBC). Brumov, Kloboucká street (76), 2.ix.2004, 1 ♀, 5.x.2004, 3 ♂♂, I. Malenovský lgt., 4.v.–3.vi.2005, pt, 1 ♂, K. Resl lgt., 28.vii.2005, 3 ♂♂, P. Kment lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♂, 18.viii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Bylnice, railway station environs (83), 11.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 1.ix.2004, 2 ♀♀, 5.x.2004, 3 ♂♂, 28.vii.2005, 2 ♂♂, 6.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Svatý Štěpán, Chladný vrch NM (93), 11.viii.–8.ix.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Hluk, Kobyli hlava NM (101), 24.viii.2002, 1 ♂, I. Malenovský lgt.

(PKPC). Horní Němčí, Hornoněmčanský háj forest (108), 10.ix.2002, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR (117), 10.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt., 13.viii.2001, 1 ♀, 21.ix.2001, 2 ♂♂, 23.v.2002, 1 ♀, P. Kment lgt., 21.vii.2002, 30 ♂♂ 5 ♀♀, 10.ix.2002, 1 ♂ 1 ♀, I. Malenovský lgt., 22.viii.–27.ix.2003, pt, 1 ♂, K. Resl lgt. (PKPC). Horní Němčí, Vinohrádky (121), 21.ix.2001, 1 ♀, P. Kment lgt., 20.vii.2002, 3 ♂♂ 19 ♀♀, 10.ix.2002, 2 ♂♂ 4 ♀♀, I. Malenovský lgt., 22.viii.–27.ix.2003, pt, 1 ♂ 1 ♀, K. Resl lgt. (PKPC). Březová, Kalábová NM (137), 4.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Strání, Obecnice hill, at transmission tower (144), 9.viii.2001, 1 ♂, P. Kment lgt. (PKPC). Lopeník, U Zvonice NM (155), 25.ix.2004, 1 ♀, P. Kment lgt., 24.vii.2005, 1 ♀, I. Malenovský lgt., 3.ix.2005, 5 ♂♂ 4 ♀♀, P. Kment lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 25.ix.2004, 1 ♂, I. Malenovský, 26.vi.–26.vii.2005, pt, 1 ♀, K. Resl lgt. (PKPC). Lopeník, Míkulčín vrch hill (160), spruce forest margin, 24.vii.2005, 1 ♂, I. Malenovský lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♂ 1 ♀, 22.ix.2007, 1 ♂, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 2 ♂♂ 3 ♀♀, 8.viii.2007, 1 ♂ 2 ♀♀, 22.ix.2007, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Výskovec, Pod Hřibovňou NM (176), 21.v.2005, 1 ♂, 24.vii.2005, 1 ♂, P. Kment lgt., 3.ix.2005, 5 ♂♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Výskovecké Bošačky, cattle pasture (179), 25.ix.2004, 2 ♂♂, 24.vii.2005, 2 ♂♂, P. Kment lgt. (PKPC). Výskovecké Bošačky, meadow and orchard (180), 21.v.2005, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 26.vi.–14.vii.2008, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Kněždubský háj forest (197), 17.viii.2000, 3 ♂♂, P. Kment lgt. (PKPC). Kněždub, Kněždubský háj forest (197) and Radějovka brook valley (198), 8.vii.2000, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 8.ix.2000, 1 ♂, I. Malenovský lgt., 28.vii.2001, 1 ♀, 20.ix.2001, 1 ♀, P. Kment lgt., 27.vi.2002, 4 ♂♂ 4 ♀♀, I. Malenovský lgt., 4.x.2002, 3 ♂♂ 3 ♀♀, P. Kment lgt. (PKPC). Malá Vrbka, between village and Výzkum hill (205), 16.viii.2000, 1 ♂, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 16.xi.1999–4.iii.2000, pt, 4 ♂♂, 4.iii.–8.iv.2000, pt, 3 ♂♂ 1 ♀, 8.iv.–5.v.2000, pt, 2 ♂♂, P. Bezděčka lgt., 5.v.2000, 3 ♂♂ 3 ♀♀, I. Malenovský lgt., 25.v.2000, 2 ♂♂ 7 ♀♀, P. Kment & I. Malenovský lgt., 18.vi.2000, 1 ♀, I. Malenovský lgt., 4.viii.2000, 1 ♂, 16.viii.2000, 3 ♂♂, P. Kment lgt., 1.x.2000, 2 ♂♂ 1 ♀, 22.x.2000, 3 ♂♂, 2.v.2001, 5 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt., 22.vi.2001, 1 ♀, I. Malenovský lgt., 28.vii.2001, 5 ♂♂ 6 ♀♀, P. Kment & I. Malenovský lgt., 20.ix.2001, 1 ♂ 1 ♀, P. Kment lgt., 18.v.2002, 3 ♂♂ 2 ♀♀, I. Malenovský lgt., 17.viii.2002, 1 ♀, 4.x.2002, 8 ♂♂ 9 ♀♀, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 16.viii.2000, 3 ♂♂, P. Kment lgt. (PKPC); 20.ix.2001, 1 ♂ 1 ♀, M. Omesová lgt. (MUBC). Radějov, Měsíční údolí valley (214), along road to Radějov, 16.viii.2009, 1 ♂, P. Kment lgt. (PKPC). Velká nad Veličkou, old cemetery (223), on *Juniperus sabina*, 18.iv.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 13.vii.1998, 1 ♂, P. Kment lgt., 18.iv.2000, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt., 19.vi.2000, 1 ♂ (freshly hatched), P. Kment lgt., 24.vii.2000, 1 ♂ 1 ♀, I. Malenovský lgt., 18.viii.2000, 2 ♂♂ 1 ♀, P. Kment lgt., 9.–10.ix.2000, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 15.vii.–6.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 16.viii.2004, 1 ♀, 1.x.2004, 2 ♂♂, 27.vii.2005, 2 ♂♂, I. Malenovský lgt. (PKPC). Suchovské Mlýny, meadow (227), 1.x.2004, 2 ♂♂ 1 ♀, I. Malenovský lgt., 3.iv.–6.v.2005, pt, 1 ♀, 4.vi.–4.vii.2005, pt, 1 ♀, K. Resl lgt., 27.vii.2005, 2 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Suchovské Mlýny, sheep pasture (226), 26.v.2005, 2 ♂♂ 1 ♀, I. Malenovský lgt., 4.vii.–6.viii.2005, pt, 1 ♀, 6.viii.–8.ix.2005, pt, 1 ♂, K. Resl lgt., 1.ix.2005, 1 ♀, I. Malenovský lgt., 8.ix.–7.x.2005, pt, 1 ♀, K. Resl lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 16.viii.2004, 1 ♂ 1 ♀, P. Kment lgt., 27.vii.2005, 1 ♂ 1 ♀, 1.ix.2005, 1 ♂, I. Malenovský lgt. (PKPC). Trnovský Mlýn, meadow (229), 27.vii.2005, 1 ♂ 2 ♀♀, 1.ix.2005, 2 ♂♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 15.vii.1998, 1 ♂, I. Malenovský & M. Omesová lgt., 6.v.2000, 1 ♂, 19.vi.2000, 1 ♂, I. Malenovský lgt., 18.viii.2000, 5 ♂♂ 4 ♀♀, P. Kment lgt., 10.ix.2000, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♀, I. Malenovský lgt., 8.viii.2001, 1 ♂, 23.ix.2001, 1 ♂, P. Kment lgt., 17.vii.2002, 7 ♂♂ 14 ♀♀, 7.ix.2002, 44 ♂♂ 40 ♀♀, I. Malenovský lgt., 17.viii.–18.ix.2003, pt, 1 ♂, K. Resl lgt., 2.ix.2004, 2 ♂♂ 2 ♀♀, 1.x.2004, 1 ♀, 26.v.2005, 1 ♀, 27.vii.2005, 1 ♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 3.v.2001, 1 ♂, P. Kment & I. Malenovský lgt., 23.ix.2001, 7 ♂♂ 13 ♀♀, P. Kment lgt., 17.vii.2002, 5 ♂♂ 3 ♀♀, 7.ix.2002, 5 ♂♂ 4 ♀♀, I. Malenovský lgt. (PKPC). Nová Lhota, Hryzácké Mlýny (246), 7.iv.–12.v.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 7.iv.–12.v.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 12.iv.–8.v.2007, Mt, 1 ♀, 2.–22.viii.2007, Mt, 1 ♀, 22.viii.–10.ix.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 18.vi.–9.vii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

True bugs (Hemiptera: Heteroptera)

Strání, Záhumenice, cattle pasture (265), 9.viii.2001, 1 ♀, P. Kment lgt., 21.ix.2001, 6 ♂♂ 3 ♀♀, 23.v.2002, 2 ♀♀, 20.vii.2002, 2 ♀♀, 12.ix.2002, 1 ♂, I. Malenovský lgt. (PKPC). Strání, Záhumenice NM (266), 9.viii.2001, 2 ♀♀, P. Kment lgt., 21.ix.2001, 2 ♂♂ 1 ♀, I. Malenovský lgt., 23.v.2002, 1 ♀, P. Kment lgt., 20.vii.2002, 3 ♂♂ 1 ♀, 12.ix.2002, 2 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Strání, Javorina NNR, meadow (270), 21.viii.2002, 4 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** European, extending to Anatolia and Transcaucasia. **Biology and habitat:** Zoophagous. Euryecious, in various open to half-shaded grassland habitats, including ruderal sites, but generally preferring drier sites than *N. ferus*. Very common (WACHMANN *et al.* 2006). **Red List status:** –.

Nabis (Nabis) punctatus punctatus A. Costa, 1847

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Horní Némčí, Drahy NR (117), 10.ix.2002, 1 ♂, I. Malenovský lgt. (PKPC). Horní Némčí, Vinohrádky (121), 20.vii.2002, 4 ♀♀, 10.ix.2002, 1 ♂ (freshly hatched), I. Malenovský lgt. (PKPC). Bánov, Skalky hill (125), 21.viii.1984, 1 ♂, P. Raus lgt. (MMBC). Výškovecké Bošačky, cattle pasture (179), 24.vii.2005, 1 ♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 19.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 17.viii.2002, 1 ♀, 4.x.2002, 3 ♀♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 16.xi.1999–4.iii.2000, pt, 2 ♂♂, P. Bezděčka lgt., 16.viii.2000, 1 ♂, P. Kment lgt. (PKPC); 22.x.2000, 3 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (KHMC, PKPC); 4.x.2002, 4 ♂♂ 3 ♀♀, P. Kment (PKPC). Radějov, Kútky NR (217), 15.vii.–5.viii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 17.vii.2002, 2 ♂♂ 2 ♀♀, 7.ix.2002, 3 ♂♂ 5 ♀♀, 1.x.2004, 1 ♂, 27.vii.2005, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 23.ix.2001, 1 ♀, P. Kment lgt., 17.vii.2002, 4 ♂♂ 2 ♀♀, 7.ix.2002, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 18.vi.–9.vii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 12.ix.2002, 1 ♂, I. Malenovský lgt. (PKPC). Strání, Javorina NNR, meadow (270), 15.vii.–6.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread in the southern part of the area, rare elsewhere. **General distribution:** West Palaearctic. **Biology and habitat:** Zoophagous. Euryecious with a preference for xerothermic habitats. Widespread, quite rare (WACHMANN *et al.* 2006). **Red List status:** –.

Nabis (Nabis) rugosus (Linnaeus, 1758)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Brumovka brook valley (29), 19.v.1999, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Brumovská street (30), 19.v.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 22.v.1999, 3 ♂♂ 4 ♀♀, P. Kment & I. Malenovský lgt. (MUBC); 2.vii.1999, 3 ♂♂ 4 ♀♀, P. Kment & I. Malenovský lgt., 10.ix.1999, 2 ♀♀, I. Malenovský, 1.x.2007, 1 ♀, O. Konvička lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 22.v.1999, 3 ♂♂ 1 ♀, 2.vii.1999, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 10.ix.1999, 2 ♂♂ 2 ♀♀, I. Malenovský & T. Vymyslický lgt. (MUBC); 1.x.2007, 2 ♂♂, O. Konvička lgt. (PKPC). Valašské Klobouky, Královec hill (33), 22.v.1999, 1 ♂, P. Kment & I. Malenovský lgt., 10.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt., 17.viii.2006, 2 ♂♂, P. Kment lgt. (PKPC). Valašské Klobouky, Na Nivách (34), 9.ix.1999, 2 ♂♂ 2 ♀♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Valašské Klobouky, NW slope of Královec hill (35) and U Rybníků (38), 10.ix.1999, 1 ♂, I. Malenovský lgt. (PKPC). Valašské Klobouky, U Rybníků (38), 2.vii.1999, 1 ♀, M. Horský & P. Kment lgt. (PKPC). Poteč, Plošiny NR (42), 4.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt., 13.ix.1999, 3 ♂♂ 1 ♀, I. Malenovský & T. Vymyslický lgt., 1.vi.2002, 1 ♂, I. Malenovský lgt., 24.viii.2002, 4 ♂♂ 6 ♀♀, 17.viii.2006, 3 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC). Brumov, Uhličky (44), 1.ix.2004, 3 ♂♂ 1 ♀,

28.v.2005, 1 ♂ 1 ♀, I. Malenovský lgt., 28.vii.2005, 1 ♂, 4.ix.2005, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 23.viii.2002, 3 ♂♂ 3 ♀♀, P. Kment lgt., 16.vi.2006, 1 ♀, I. Malenovský lgt. (PKPC); 13.–16.viii.2007, ypt, 1 ♀, J. Ježek lgt. (NMPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 30.vi.1999, 2 ♀♀, M. Horsák & P. Kment lgt., 9.ix.1999, 1 ♀, I. Malenovský lgt., 14.viii.2006, 3 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, meadow (48), 19.v.1999, 6 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráň NR (54), 20.v.1999, 1 ♂ 3 ♀♀, P. Kment & I. Malenovský lgt., 25.viii.2002, 1 ♂, P. Kment lgt., 30.vi.2004, 2 ♀♀, 1.ix.2004, 3 ♀♀, 16.vi.2006, 3 ♂♂, I. Malenovský lgt., 16.viii.2006, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55), 20.v.1999, 1 ♂ 5 ♀♀, 3.vii.1999, 2 ♀♀, P. Kment & I. Malenovský lgt., 17.vi.2006, 2 ♀♀, I. Malenovský lgt., 16.viii.2006, 3 ♂♂ 3 ♀♀, P. Kment lgt. (PKPC). Brumov, Kloboucká street (76), 2.ix.2004, 1 ♀, I. Malenovský lgt. (PKPC). Bylnice, Na Stráži (77), 18.viii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 1 ♀, P. Kment & M. Omesová lgt., 12.ix.1999, 2 ♂♂ 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Bylnice, railway station environs (83), 11.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 1.ix.2004, 1 ♀, 28.v.2005, 1 ♂ 1 ♀, 28.vii.2005, 1 ♀, 6.ix.2005, 4 ♂♂ 4 ♀♀, I. Malenovský lgt. (PKPC). Sidonie, Vlárka brook valley (92), 8.ix.1981, 1 ♂, L. Pospíšilová lgt. (MMBC). Svätý Štěpán, right bank of Vlára river (95), 21.v.1999, 1 ♀, P. Kment lgt. (PKPC). Hluk, Kobylí hlava NM (101), 24.viii.2002, 2 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Horní Němčí, Hornoněmčanský háj forest (108), 10.ix.2002, 1 ♂, I. Malenovský lgt. (PKPC). Horní Němčí, between village and Drahy NR (114), 13.viii.2001, 1 ♀, P. Kment lgt. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♀, P. Kment & I. Malenovský lgt., 13.viii.2001, 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 8.viii.2007, 4 ♂♂ 1 ♀, 22.ix.2007, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 5 ♂♂ 2 ♀♀, 22.ix.2007, 3 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC). Výškovec, Hřibovňa hill (175), on *Circaea lutetiana*, 25.ix.2004, 1 ♂, P. Kment lgt. (PKPC). Výškovec, Pod Hřibovňou NM (176), 3.ix.2005, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Výškovec, Ve Vlčí NR (177), 22.v.2005, 1 ♀, I. Malenovský lgt. (PKPC). Výškovecké Bošačky, cattle pasture (179), 27.vi.2004, 1 ♀, 3.ix.2005, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Výškovecké Bošačky, meadow and orchard (180), 19.viii.2004, 3 ♂♂ 3 ♀♀, 25.ix.2004, 1 ♂ 6 ♀♀, P. Kment lgt., 21.v.2005, 4 ♀♀, 3.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Radějov, Žerotín NM (188), 19.viii.2002, 7 ♂♂ 1 ♀, P. Kment lgt. (PKPC); 14.vii.–5.viii.2008, Mt, 1 ♀, 5.–26.viii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Kněždubský háj forest (197), 17.viii.2000, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Kněždub, Kněždubský háj forest (197) and Radějovka brook valley (198), 8.vii.2000, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 8.ix.2000, 1 ♂, I. Malenovský lgt., 20.ix.2001, 1 ♀, P. Kment lgt., 18.v.2002, 2 ♀♀, I. Malenovský lgt., 4.x.2002, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 5.v.2000, 2 ♂♂ 8 ♀♀, 25.v.2000, 1 ♀, I. Malenovský lgt., 4.viii.2000, 1 ♀, 16.viii.2000, 1 ♂ 2 ♀♀, P. Kment lgt., 18.v.2002, 1 ♀, I. Malenovský lgt., 17.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 19.vi.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.v.1998, 1 ♂, 19.vi.2000, 2 ♂♂ 1 ♀, 18.viii.2000, 3 ♂♂ 2 ♀♀, P. Kment lgt., 9.–10.ix.2000, 5 ♂♂ 4 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 6.v.2000, 2 ♂♂ 6 ♀♀, 19.vi.2000, 1 ♀, I. Malenovský lgt., 18.viii.2000, 7 ♂♂ 9 ♀♀, P. Kment lgt., 10.ix.2000, 7 ♂♂ 5 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 7.ix.2002, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Machová NR (259), 14.v.1998, 3 ♂♂, P. Kment lgt. (MHBC, PKPC). Strání, Záhumenice NM (266), 23.v.2002, 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Eurosiberian. **Biology and habitat:** Zoophagous. Euryecious, in various habitats, open to shaded, humid to xerothermic, although preferring more humid and half-shaded places, usually with trees (e.g. forest undergrowth and edges). Very common (WACHMANN *et al.* 2006). **Red List status:** –.

Family ANTHOCORIDAE

Acomporis alpinus Reuter, 1875

Material examined. Lopeník, Mikulčín vrch hill (160), 24.vii.2005, 1 ♀, I. Malenovský lgt. (PKPC). Nová Lhota, Fojtické Mlýny (245), 24.vii.1980, 1 ♂, L. Pospíšilová lgt. (MMBC). Javorník, Machová NR (259), 9.vii.1998, 1 ♀, P. Kment lgt. (PKPC).

Additional material examined. MORAVIA: Javorník, Račí údolí valley (5667), 15.vii.1981, 1 ♀, Z. Jindra lgt. (ZJPC). Ostravice, Smrk NR (6476), spruce forest on the summit, 1240 m a.s.l., 26.viii.1998, 2 ♂♂; Peretánky, beating of *Fagus sylvatica*, 1020 m a.s.l., 8.ix.1998, 1 ♀; SE slope, spruce forest, beating of *Picea abies*, 1100 m a.s.l., 8.ix.1998, 2 ♀♀; slope, 1080 m a.s.l., 20.vii.1999, 1 ♂, M. Roháčová lgt. et det., P. Kment revid. (MBFC). Křižánky, Kyšperský rybník pond (6362, N 49°41'10" E 16°03'33"), probably on *Pinus sylvestris*, 22.vii.2000, 1 ♀, P. Kment lgt. (PKPC). Křižánky, environs of Kyšperský and Řásník ponds (6362), on *Picea abies*, 24.vi.2000, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Březejc, towards Ronov (6662, N 49°20'44" E 16°06'31"), on *Pinus sylvestris*, 4.iv.2000, 1 ♀, P. Kment lgt. (PKPC). Ořechov – Ronov, environs of Ořechovské rybníky ponds (6662), forest margin, on *Picea abies*, 3.xi.1999, 1 ♀, 4.iv.2000, 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only in three sites in the central and southern parts of the area. **General distribution:** Eurosiberian.

Biology and habitat: Zoophagous. On conifers (*Picea abies*, *Abies alba*, *Larix decidua*, *Pinus*). A boreo-montane species, preferring medium and higher altitudes. Quite rare (STEHLÍK 1952, WACHMANN *et al.* 2006). **Red List status:** –.

Comments. In Moravia known only from the Hrubý Jeseník Mts. (STEHLÍK 1952), Rychlebské hory Mts. (ŠTYS 1959) and Moravskoslezské Beskydy Mts. (ROHÁČOVÁ 2001a), a revision of the previous records is, however, needed. Also recorded from the Polish side of the Gl. Schneeberg [= Mt. Králický Sněžník] (5766–67) (POLENTZ 1944).

Acomporis pygmaeus (Fallén, 1807)

Material examined. Strání, Javorina NNR, meadow (270), 3.–23.vi.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only on Mt. Velká Javořina with a Malaise trap. **General distribution:** Holarctic (Eurosiberian and Nearctic). **Biology and habitat:** Zoophagous. On *Pinus*, mostly *P. sylvestris*. Preferring medium and higher altitudes. Widespread, quite rare (KMENT *et al.* 2003, WACHMANN *et al.* 2006). **Red List status:** –.

Comments. Previously confused with *Acomporis alpinus*. In Moravia known only from Javorník (Račí údolí valley, 5667), Ostrava-Poruba (6174), and Křižánky (environs of the Kyšperský rybník pond, 6362) (KMENT *et al.* 2003).

Amphiareus obscuriceps (Poppius, 1909)

Published record. KMENT & BRYJA (2001): Kněždub, cottage colony in the valley of Radějovka brook (198). **Material examined.** Velká nad Veličkou, Zahrady pod Hájem NNR (225), 25.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Nová Lhota, Hryzlácké Mlýny (246), 4.–24.viii.2009, Mt, 1 ♂, 24.viii.–16.ix.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 7.iv.–12.v.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 8.–28.v.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt., 15.vi.–13.vii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Collected only in the southern part of the area, mostly by means of Malaise traps. **General distribution:** East Palaearctic; introduced to West Palaearctic Region and North America. **Biology and**

habitat: Zoophagous. Euryecious, found mostly in synanthropic or semi-natural habitats; often associated with dead-leaf microhabitats (KMENT *et al.* 2003, WACHMANN *et al.* 2006, HENRY *et al.* 2008). **Red List status:** –.

Comments. An alien species, in the Czech Republic found for the first time in 1994. Its distribution was reviewed by KMENT (2006) with additional records provided by HRADIL *et al.* (2008).

Anthocoris amplicollis Horváth, 1893

Material examined. Lopeník, U Zvonice NM (155), on *Salix caprea*, 18.viii.2004, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Radějovka brook valley (198), 17.vi.2000, 1 spec., P. Kment lgt. (PKPC). Tvarožná Lhota, valley of Járkovec brook (201), sweeping of *Urtica* sp., 17.viii.2000, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), forest margin, 18.vi.2000, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Javorník, towards Suchovské Mlýny, Velička river valley (233), 6.v.2000, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 15.vi.–13.vii.2010, Mt, 4 ♀♀, 13.vii.–10.viii.2010, Mt, 1 ♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC).

Additional material examined. MORAVIA: Brno-Bystrc, meadow at Rakovecká myslivna gamekeeper's lodge (6765, N 49°13'40" E 16°30'03"), 28.iv.1999, 1 ♀, M. Horsák & P. Kment lgt. (PKPC). Brno – Černovice, Černovický hájek NR (6865, N 49°09'56" E 16°38'44"), 15.iv.1999, 2 ♀♀, 20.iv.2000, 1 ♀, M. Horsák & J. Nerudová lgt. (PKPC). Tvarožná, Santon NM (6866, N 49°11'16" E 16°45'48"), 29.iii.1998, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Pouzdřany, Kolby forest (7065), 23.iv.2005, 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread in the central and southern parts of the area, quite rare. **General distribution:** European, extending to Transcaucasia. **Biology and habitat:** Zoophagous, associated with gall-forming aphids and psyllids. On *Fraxinus excelsior*, rarely on other trees (*Cornus*, *Acer*). Widespread, rare (WACHMANN *et al.* 2006). **Red List status:** –.

Comments. In Moravia recorded only from Střeň (6368), Pavlovské kopce hills (Soutěska, Kotelná, 7165), Mikulov (Svatý kopeček NR, 7165) (STEHLÍK 1963, BRYJA & KMENT 2006a), and Ostrava (Slezská Ostrava, Štěpánův sad park near the Zárubek mine, 6175) (DOBŠÍK & KEMPŇY 1968).

Anthocoris butleri Le Quesne, 1954

Material examined. Velká nad Veličkou, village (222), 19.vi.2000, on *Buxus sempervirens*, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Javorník, village (239), 8.viii.2001, on *Buxus sempervirens*, 2 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC).

Additional material examined. MORAVIA: Lednice, castle park (7166), 26.ix.1999, on *Buxus sempervirens*, 4 ♂♂ 1 ♀, P. Kment lgt. (PKPC, JBSC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, found only at two sites in the southern part of the territory. **General distribution:** Atlantic, extending to central Europe. **Biology and habitat:** Zoophagous, preying especially on *Psylla buxi* (Linnaeus, 1758) (Hemiptera: Psylloidea), being exclusively found on *Buxus sempervirens*. Widespread, not rare (WACHMANN *et al.* 2006). **Red List status:** –.

Comments. In Moravia previously known only from two localities, Brno (Žlutý kopec hill, 6865) and Lednice (castle park, 7166) (STEHLÍK 1962). As *Buxus sempervirens* is not

native in the Czech Republic, *A. butleri* is considered an alien species in the Czech fauna (KMENT 2006). The specimens from the Bílé Karpaty PLA have the antennomere 2 only very slightly longer than the diatone in males (1.05–1.1×); both segments are equally long in females; however, the more elongate paramere fits the drawing of *A. butleri* by PÉRICART (1972).

Anthocoris confusus Reuter, 1884

Material examined. Poteč, Ploštiny NR (42), 13.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC); 12.iii.2006, under scales of the bark of *Abies alba*, 1 ♀, O. Konvička lgt. (NMPC). Valašské Klobouky, Bílé potoky NR, forest (47), 9.i.2007, under scales of the bark of *Abies alba*, 1 ♀, O. Konvička lgt. (NMPC). Svätý Štěpán, Chladný vrch NM (93), 6.iv.–5.v.2010, Mt, 1 ♂, 24.v.–16.vi.2010, Mt, 2 ♀♀, 16.vi.–4.vii.2010, Mt, 1 ♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Horní Němčí, Drahy NR (117), 23.v.2002, 1 ♀, P. Kment lgt. (PKPC). Vyškovec, Pod Hřibovňou NM (176), 25.ix.2004, 1 ♀, P. Kment lgt. (PKPC). Lopeník, Velký Lopeník env. (181), 30.iv.2007, 1 ♀, O. Konvička lgt. (OKZC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 1 ♀, J. L. Stehlik lgt. (MMBC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 15.vi.–13.vii.2010, Mt, 1 ♀ 1 spec., 10.viii.–7.ix.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 28.v.–18.vi.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 7.iv.–13.v.2009, Mt, 1 ♂ 1 ♀, 3.–23.vi.2009, Mt, 5 ♀♀, 23.vi.–15.vii.2009, Mt, 1 ♀, 6.–24.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, not rare. **General distribution:** Holarctic (Holopalaearctic and Nearctic). **Biology and habitat:** Zoophagous, preying especially on Aphidoidea, less frequently on Psylloidea and Psocoptera. On various deciduous trees, e.g. *Acer*, *Crataegus*, *Fagus*, *Fraxinus*, *Quercus*, *Populus*, *Salix*, *Tilia*, and *Ulmus*. Widespread, not rare (WACHMANN *et al.* 2006). **Red List status:** –.

Anthocoris minki minki Dohrn, 1860

Material examined. Petrůvka, U Petrůvky NM (14), 6.viii.1999, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 28.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, village (222), 19.vi.2000, 2 ♀♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 13.vii.1998, 1 ♂, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 18.viii.2000, 1 ♀, P. Kment lgt. (PKPC). Javorník, village (239), 8.viii.2001, 1 ♂, P. Kment lgt. (PKPC). **Additional material examined.** MORAVIA: Veselí nad Moravou, park near railway station (7070), 8.viii.2001, on *Populus nigra*, 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** European. **Biology and habitat:** Zoophagous, associated with gall-forming aphids on *Populus*. Widespread, quite rare (URBAN 2002, 2004; WACHMANN *et al.* 2006). **Red List status:** –.

Comments. In Moravia known only from Lednice (Horní les floodplain forest, 7166) (KŘÍSTEK 1991), several localities in Brno (6765) (RAUS 1990; URBAN 2002, 2004), and Mikulov (Svatý kopeček NR, 7165) (BRYJA & KMENT 2006a).

Anthocoris nemoralis (Fabricius, 1794)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 6.viii.1999, 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Brumovka brook valley (29), 19.v.1999, 1 spec., P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Brumovská street (30), 19.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt., 10.ix.1999, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, U Rybníků (38), 2.vii.1999, 1 ♀, M. Horský & P. Kment lgt. (PKPC). Poteč, Ploščiny NR (42), 4.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt., 1.vi.2002, 1 ♀, I. Malenovský lgt., 17.viii.2006, 2 ♀♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt., 14.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., 16.viii.2006, 4 ♂♂ 3 ♀♀, P. Kment lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Svaty Štěpán, below quarry downhill of Okrouhlá NM (98), under scales of the bark of *Abies alba*, 19.xii.2006, 1 ♂, O. Konvička lgt. (NMPC). Hluk, Babí hora NM (102), 24.viii.2002, 1 ♀, I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 11.vii.2009, 2 ♂♂ 2 ♀♀, P. Baňar lgt. et det. (MMBC). Horní Němčí, village (109), 13.viii.2001, on *Tilia* sp., 1 ♀, P. Kment lgt. (PKPC). Korytná, Březí (113), 5.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Hornoněmčanský háj forest (118), 7.vii.1980, 1 ♀, L. Pospíšilová lgt. (MMBC). Komňa, Lom Rasová NM (128), 5.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Březová, Cestiska NM (136), 2.x.2007, 1 ♀, O. Konvička lgt. (NMPC). Strání, Obecnice hill, at transmission tower (144), 2.vii.2001, 1 ♀, P. Kment lgt. (PKPC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 2 ♀♀, 22.ix.2007, 2 ♂♂, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 1 ♀, 8.viii.2007, 2 ♂♂, P. Kment lgt. (PKPC). Radějov, Dolní Mlýn (195), 11.vii.1998, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Kněždubský háj forest (197) and Radějovka brook valley (198), 17.vi.2000, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Kněždub, Radějovka brook valley (198), 22.vi.2001, 1 ♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 10.vi.2000, 1 ♂ 1 ♀, J. Bryja lgt. (JBSC); 19.viii.2002, 1 ♀, P. Kment lgt. (PKPC); 14.v.–4.vi.2008, Mt, 1 ♀, 24.ix.–27.x.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Holý vrch hill (189), 4.vii.1977, 1 ♂ 2 ♀♀, J. L. Stehlík lgt. (MMBC). Kněždub, Radějovka brook valley (198), 17.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 7.v.2000, on *Loranthus europeus*, 2 ♂♂, I. Malenovský lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 25.v.–15.vi.2010, Mt, 1 ♂ 1 ♀, 15.vi.–14.vii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 7 ♂♂ 5 ♀♀, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 19.vi.2000, 1 ♂, P. Kment & I. Malenovský lgt., 8.vii.2000, 1 ♂, P. Kment lgt. (PKPC). Radějov, Měsíční údolí valley (214), 20.viii.2002, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Radějov, Kútky NR (217), 4.–26.vi.2008, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC); 25.vi.2010, 2 ♂♂, J. Ch. Vávra lgt. (OMOC). Radějov, Mandát brook valley below Kútky NR (218), 26.vi.–15.vii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, below Zahrady pod Hájem NNR (221), 19.vi.2000, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, village (222), 9.ix.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, old cemetery (223), 18.viii.2000, 6 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 18.iv.2000, 4 ♂♂ 7 ♀♀, P. Kment & I. Malenovský lgt. (MUBC, PKPC); 19.vi.2000, 14 ♂♂ 16 ♀♀, P. Kment lgt., 24.vii.2000, 2 ♀♀, I. Malenovský lgt., 18.viii.2000, 2 ♀♀, P. Kment lgt., 9.–10.ix.2000, 7 ♂♂ 9 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 8.iv.–12.v.2009, Mt, 1 ♂, 2.–25.vi.2009, Mt, 1 ♀, 25.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 6.v.2000, 2 ♂♂ 1 ♀, 19.vi.2000, 13 ♂♂ 17 ♀♀, I. Malenovský lgt., 18.viii.2000, 5 ♀♀, P. Kment lgt., 10.ix.2000, 5 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 6.iv.–12.v.2009, Mt, 1 ♀, 2.–25.vi.2009, Mt, 4 ♂♂ 1 ♀, 5.–24.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, village (239), 8.viii.2001, 2 ♂♂, P. Kment lgt. (PKPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 11 ♂♂ 9 ♀♀, P. Lauterer & J. L. Stehlík lgt. (MMBC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 6.iv.–12.v.2009, Mt, 4 ♀♀, 12.v.–2.vi.2009, Mt, 1 ♀, 2.–25.vi.2009, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Hryzlácké Mlýny (246), 7.iv.–12.v.2009, Mt, 1 ♀, 3.–22.vi.2009, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 12.iv.–8.v.2007, Mt, 1 ♀, 8.–28.v.2007, Mt, 1 ♂ 1 ♀, 28.v.–18.vi.2007, Mt, 4 ♂♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt., 24.v.–15.vi.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Záhumence NM (266), 2.vii.2001, 7 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 7.iv.–5.v.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: West Palaearctic. **Biology and habitat:** Zoophagous on Psylloidea, Aphidoidea, Thysanoptera, Acari: Tetranychidae, etc. Euryecious, usually living on various deciduous trees and shrubs, often on *Crataegus* or *Fraxinus*. Very common (WACHMANN *et al.* 2006). **Red List status:** –.

Anthocoris nemorum (Linnaeus, 1761)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 3.–23.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovská street (30), 9.ix.1999, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Brumovka brook valley (29), 19.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 30.vi.1999, 1 ♂ 1 ♀, M. Horsák & P. Kment lgt. (MUBC). Valašské Klobouky, Brumovská street (30), 19.v.1999, 1 ♀, P. Kment & I. Malenovský lgt., 10.ix.1999, 1 ♂, I. Malenovský lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 7 ♂♂ 4 ♀♀ (1 ♂ freshly hatched), P. Kment & I. Malenovský lgt. (MUBC, PKPC); 10.ix.1999, 2 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 22.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (MUBC); 10.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Valašské Klobouky, Královec hill (33), 22.v.1999, 2 ♀♀, P. Kment & I. Malenovský lgt., 10.ix.1999, 5 ♂♂ 3 ♀♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Valašské Klobouky, NW slope of Královec hill (35) and U Rybníků (38), 10.ix.1999, 1 ♂, I. Malenovský lgt. (PKPC). Valašské Klobouky, U Rybníků (38), 22.v.1999, 3 ♀♀, P. Kment lgt. (PKPC); 2.vii.1999, 4 ♂♂ 4 ♀♀, M. Horsák & P. Kment lgt. (MUBC). Poteč, Ploščíny NR (42), 4.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt., 13.ix.1999, 5 ♀♀, I. Malenovský & T. Vymyslický lgt., 17.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Valašské Klobouky, Královec – Ploščíny ridge (43), 4.vii.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Návojná, Vrchy hill (45), 12.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 14.viii.2006, 2 ♀♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 30.vi.1999, 1 ♂ 4 ♀♀, M. Horsák & P. Kment lgt., 11.vii.2006, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Hrušová dolina valley (53), 20.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráň NR (54), 20.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráň NR (54) and along road to Nedašov (52), 10.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Kaňoury NM (55), 17.vi.2006, 1 ♀, I. Malenovský lgt., 12.vii.2006, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55) and surrounding pastures (53), 3.vii.1999, 4 ♀♀, P. Kment & I. Malenovský lgt. (MUBC, PKPC). Petrůvka, Kladenka brook valley (64), 13.v.–3.vi.2008, Mt, 1 ♀, 3.–23.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Popov, Havránkův potok brook valley (71), 6.viii.1980, 4 ♂♂ 5 ♀♀, J. L. Stehlik lgt. (MMBC). Brumov, Holý vrch hill (79), 14.vi.1971, 1 ♀, L. Pospíšilová lgt. (MMBC). Bylničky, Tarandové hill (80), 24.vi.1982, 2 ♂♂ 2 ♀♀, P. Lauterer lgt. (MMBC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 1 ♀, P. Kment & M. Omesová lgt. (MUBC). Bylnice, railway station environs (83), 1.vii.1999, 1 ♂, P. Kment & M. Omesová lgt.; 11.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Sidonie, Sidonie NR (87), 16.vi.–5.vii.2010, Mt, 1 ♂, 5.vii.–11.viii.2010, Mt, 2 ♀♀, 8.ix.–23.x.2010, Mt, 1 spec., P. Chvojka & J. Macek lgt. (NMPC). Nedašov, Na Kopanicách, brook (89), 20.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 6.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Sidonie, Vlárka brook valley (92), 8.ix.1981, 3 ♀♀, L. Pospíšilová lgt. (MMBC). Korytná, Březí (113), 5.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Suchov, Kazivec brook valley (116), 15.v.1998, 1 ♀, P. Kment lgt., 9.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt. (PKPC). Horní Němčí, Drahy NR (117), 13.viii.2001, 1 ♀, P. Kment lgt. (PKPC). Horní Němčí, Lesná hill (123), 24.vii.1980, 3 ♂♂ 2 ♀♀, L. Pospíšilová lgt. (MMBC). Komňa env. (127), 20.iv.2006, 1 ♀, O. Konvička lgt. (NMPC). Komňa, Nový Dvůr (129), 21.viii.1984, 2 ♀♀, P. Lauterer & P. Raus lgt. (MMBC). Strání, valley of Klanečnice above reservoir (142), 10.vii.1998, 1 ♂ 3 ♀♀, P. Kment lgt. (PKPC). Strání, valley of Klanečnice between the village and reservoir (143), 10.vii.1998, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Lopeník, U Zvonice NM (155), 21.v.2005, 2 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), on *Corylus avellana*, 18.viii.2004, 1 ♀, I. Malenovský lgt. (PKPC). Lopeník, Mikulčín vrch hill (160), 17.vii.1964, 1 ♂ 3 ♀♀, L. Pospíšilová lgt. (MMBC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 8.viii.2007, 1 ♂, 22.ix.2007, 1 ♂, P. Kment lgt. (PKPC). Vápenice, V Krátkých (170), 6.vii.2001, 1 ♀,

P. Kment & I. Malenovský lgt. (PKPC). Vyškovec, Ve Vlčí NR (177), 22.v.2005, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Sudoměřice, Mlýny, Sudoměřický potok book (191), 10.iv.2003, 1 ♀, P. Pařil lgt. (PKPC). Kněždub, Kněždubský háj forest (197) and Radějovka brook valley (198), 17.vi.2000, 2 ♂♂ 8 ♀♀, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 25.v.–15.vi.2010, Mt, 1 ♀, 15.vi.–14.vii.2010, Mt, 3 ♂♂, 14.vii.–12.viii.2010, Mt, 1 ♂ 5 ♀♀, 12.viii.–9.ix.2010, Mt, 1 ♀, 9.ix.–22.x.2010, Mt, 2 ♂♂, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 1 ♂, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 19.vi.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Radějov, Měsíční údolí valley (214), 8.ix.1998, 2 ♀♀, I. Malenovský & M. Omesová lgt. (PKPC). Radějov, Mandát brook valley below Kútky NR (218), 4.–26.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, below Zahrady pod Hájem NNR (221), 19.vi.2000, 3 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 1 ♂ 3 ♀♀, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 6.v.2000, 2 ♀♀, I. Malenovský lgt., 19.vi.2000, 4 ♂♂ 10 ♀♀, I. Malenovský lgt. (PKPC). Javorník, towards Suchovské Mlýny, Velička river valley (233), 6.v.2000, 1 ♀, I. Malenovský lgt. (PKPC). Nová Lhota, Hryzácké Mlýny (246), 3.–22.vi.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 7.iv.–12.v.2009, Mt, 1 ♂ 5 ♀♀, 12.v.–3.vi.2009, Mt, 1 ♀, 3.–22.vi.2009, Mt, 1 ♀, 22.vi.–15.vii.2009, Mt, 3 ♂♂ 2 ♀♀, 15.vii.–5.viii.2009, Mt, 9 ♀♀, 24.viii.–16.ix.2009, Mt, 1 ♂ 1 ♀, 16.ix.–21.x.2009, Mt, 5 ♂♂ 5 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 24.v.–15.vi.2010, Mt, 1 ♀, 15.vi.–13.vii.2010, Mt, 2 ♂♂ 6 ♀♀, 13.vii.–10.viii.2010, Mt, 1 ♀, 10.viii.–7.ix.2010, Mt, 1 ♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 14.v.1998, 1 ♀, P. Kment lgt. (PKPC); 24.v.–15.vi.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 12.iv.–8.v.2007, Mt, 1 ♂ 3 ♀♀, 8.–28.v.2007, Mt, 2 ♀♀, 28.v.–18.vi.2007, Mt, 2 ♂♂ 4 ♀♀, 18.vi.–9.vii.2007, Mt, 3 ♂♂ 4 ♀♀, 9.vii.–2.viii.2007, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 2.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 25.v.–15.vi.2010, Mt, 1 ♀, 15.vi.–9.vii.2010, Mt, 2 ♂♂ 1 ♀, 9.vii.–12.viii.2010, Mt, 1 ♀, 9.ix.–22.x.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 7.iv.–13.v.2009, Mt, 6 ♂♂ 76 ♀♀, 13.v.–3.vi.2009, Mt, 2 ♀♀, 3.–23.vi.2009, Mt, 1 ♂ 25 ♀♀, 23.vi.–15.vii.2009, Mt, 11 ♂♂ 36 ♀♀, 15.vii.–6.viii.2009, Mt, 8 ♂♂ 17 ♀♀, 6.–24.viii.2009, Mt, 1 ♂ 6 ♀♀, 24.viii.–17.ix.2009, Mt, 6 ♂♂ 2 ♀♀, 17.ix.–21.x.2009, Mt, 27 ♂♂ 17 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Eurosiberian. **Biology and habitat:** Zoophagous, also sucking on pollen. On herbaceous vegetation (e.g. *Urtica dioica*), less frequently on trees (e.g. *Salix*, fruit trees), preferring moister, open to half-shaded habitats. Very common (DOBŠÍK & URBAN 1981, WACHMANN *et al.* 2006). **Red List status:** –.

Dufouriellus ater (Dufour, 1833)

Material examined. Svatý Štěpán, Chladný vrch NM (93), 24.v.–16.vi.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Radějov, Žerotín NM (188), 4.–26.vi.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 14.ix.–22.x.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, sawmill (244), under bark of a *Quercus* stem, 8.viii.2001, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 25.vi.–15.vii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Strání, Záhumenice NM (266), under bark of stakes in a fence, 9.viii.2001, 1 ♀, P. Kment lgt. (PKPC); 25.v.–15.vi.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC).

Additional material examined. MORAVIA: Bransouze, in village (6660), on spruce logs, 21.v.2003, 2 ♂♂ 2 ♀♀, M. Horsák lgt. (MHBC, PKPC). Třebíč (6760), 24.ii.1991, 4 spec., Z. Malinka lgt. (ZMOC). Únanov (7162), 12.viii.1966, 1 ♂ 4 ♀♀, L. Pospíšilová lgt. (MMBC). Hnanice – Popice (7162), steppe, 3.v.1977, 1 ♀, J. Vilímová lgt. (JVPC). Břeclav, Pohansko deer-game park (7267), under bark of dead oaks, 16.–17.vii.2004, 1 ♀, 1.v.2008, 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, but quite rare. **General distribution:** Holarctic (Holopalaeartic and Nearctic), also

known from Argentina, Chile, and the Hawaii (introduced). **Biology and habitat:** Zoophagous. Under loose bark of dead trees, deciduous as well as coniferous, often on stakes in fences and banisters with remnants of bark. Widespread, but rare (WACHMANN *et al.* 2006). **Red List status:** –.

Comments. In Moravia recorded from Zlechov (6970) (SPITZNER 1892, as *Xylocoris ater*), the Rychlebské hory Mts. (ŠTYS 1959), Huslenky (Kýčová, 6774) (SPITZER *et al.* 2010), and Mikulov (Svatý kopeček NR, 7165) (BRYJA & KMENT 2006a).

Dysepicritus rufescens (A. Costa, 1847)

(Fig. 8)

Material examined. Velká nad Veličkou, Zahrady pod Hájem NNR (225), 25.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only with a Malaise trap in one locality in the southern part of the area. **General distribution:** Holomediterranean, extending to central Europe. **Biology and habitat:** Zoophagous, specialized to prey on Psocoptera. On deciduous trees and conifers under the loose bark, in herbaceous vegetation, in wet habitats on Cyperaceae and *Juncus* spp., in mosses, straw, and under cut grass. Very rare (WACHMANN *et al.* 2006). **Red List status:** Not evaluated.

Comments. In central Europe known only from Austria, Germany (doubtful), Hungary, the Netherlands, and Slovakia (PÉRICART 1996). We provide here the first record for the Czech Republic.

Elatophilus (Elatophilus) nigricornis (Zetterstedt, 1838)

(Fig. 9)

Material examined. Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 7.ix.–21.x.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only with a Malaise trap in one locality in the southern part of the area. **General distribution:** European, extending to Iran. **Biology and habitat:** Zoophagous. On *Pinus* spp., mostly *P. sylvestris*, rarely also on *Picea*. Widespread, but quite rare (WACHMANN *et al.* 2006). **Red List status:** –.

Comments. For Bohemia recorded from Stará Boleslav (57–5854), Nymburk (5856) (ROUBAL 1953), Tis [u Blatna] (5946), and Valeč (5845) (ROUBAL 1957). Here we provide the first record for Moravia.

Orius (Heterorius) horvathi (Reuter, 1884)

Material examined. Petrůvka, U Petrůvky NM (14), 23.ix.–29.x.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Javorůvky NR (32), 10.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Kaňoury NM (55), 16.viii.2006, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 5.x.2004, 1 ♂, I. Malenovský lgt. (PKPC). Radějov, Mandát brook valley below Kútky NR (218), 15.vii.–5.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 10.ix.–3.x.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 24.viii.–17.ix.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Additional material examined. MORAVIA: Ječmeniště, Lampenberk (7262), 27.vi.2002, 1 ♂, D. Král lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, but quite rare. **General distribution:** Holopalaearctic. **Biology and habitat:** Zoophagous, also sucking on pollen. On herbaceous vegetation as well as on trees. Widespread, but rare (WACHMANN *et al.* 2006). **Red List status:** –.

Comments. In Moravia known from ruderal vegetation in Brno (6765–66, 6865–66) (RAUS 1988, 1990) and Mikulov (Svatý kopeček NR, 7165) (BRYJA & KMENT 2006a).

Orius (Heterorius) laticollis laticollis (Reuter, 1884)

Material examined. Kněždub, Čertoryje NNR, Radějovka brook (204), 5.–25.v.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 12.iv.–8.v.2007, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, village (222), on deciduous trees, 19.vi.2000, 1 ♂, P. Kment lgt. (PKPC).

Additional material examined. MORAVIA: Brno – Bohunice, towards Vídeňská street, Leskava brook banks (6865, N 49°09'47" E 16°35'13"), sweeping, 210 m a.s.l., 10.ix.2004, 7 ♂♂ 6 ♀♀, I. Malenovský lgt. (PKPC). Brno – Dolní Heršpice (0–1.2 km NW), banks of Leskava brook (6865, N 49°09'46" E 16°34'14"), sweeping, 200 m a.s.l., 10.ix.2004, 1 ♀, I. Malenovský lgt. (PKPC). Ostopovice, Leskava brook surroundings (6865, N 49°09'52" E 16°33'05"), 230 m a.s.l., 7.ix.2004, 2 ♂♂ 2 ♀♀, I. Malenovský & L. Dembický lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Collected only in the southern part of the area, rare. **General distribution:** Eurosiberian. **Biology and habitat:** Zoophagous, also sucking on pollen. On shrubs and trees (*Salix*, *Fraxinus*, *Populus*, *Alnus*, *Ulmus*), more rarely on herbaceous vegetation. In relatively moist habitats, often in proximity of water. Widespread, but quite rare (WACHMANN *et al.* 2006). **Red List status:** –.

Comments. In Moravia previously found only on ruderal vegetation in Brno – Maloměřice (6765) (RAUS 1988, 1990) and in galls of *Pemphigus gairi* Stroyan, 1964 (Aphidoidea: Pemphigidae) on *Populus nigra* in Brno – Obřany (6765) (URBAN 2004).

Orius (Heterorius) majusculus (Reuter, 1879)

Material examined. Bylnice, railway station environs (83), 11.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 15.vi.–14.vii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), forest margin, 18.vi.2000, 1 ♂, P. Kment lgt. (PKPC). Radějov, Měsíční údolí valley (214), 20.viii.2002, 1 ♀, I. Malenovský & M. Omesová lgt. (PKPC). Velká nad Veličkou, village, Velička river above the weir (224), 19.vi.2000, 1 ♀, P. Kment lgt., 9.ix.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 29.vi.2001, 1 ♂, P. Kment lgt. (PKPC). Javorník, Machová NR (259), 28.v.–18.vi.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 21.ix.2001, 1 ♂, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Collected throughout the area, but quite rare. **General distribution:** Holarctic (Eurosiberian, extending to Maghreb and Canada). **Biology and habitat:** Zoophagous, also sucking on pollen. On herbaceous vegetation as well as on trees (e.g. *Salix* and fruit trees), preferring humid habitats in proximity of water, but also found in drier, open habitats. Common (WACHMANN *et al.* 2006). **Red List status:** –.

***Orius (Heterorius) minutus* (Linnaeus, 1758)**

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 4.–25.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Královec hill (33), 17.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Poteč, Ploščiny NR (42), 17.viii.2006, 3 ♂♂, P. Kment lgt. (PKPC). Valašské Klobouky, Královec – Ploščiny ridge (43), 4.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 9.ix.1999, 3 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Nedašov, village (51), ruderal vegetation, 17.viii.2006, 4 ♂♂, P. Kment lgt. (PKPC). Petrůvka, Kladenka brook valley (64), 3.–23.vi.2008, Mt, 1 ♂, 4.–25.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Sidonie, Sidonie NR (87), 5.vii.–11.viii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Žitková, Hutě NR (164), 12.ix.–2.x.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Radějov, Žerotín NM (188), 26.vi.–14.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Radějovka brook valley below Čertoryje (198), 28.vii.2001, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 15.vi.–14.vii.2010, Mt, 5 ♂♂ 1 ♀, 14.vii.–12.viii.2010, Mt, 7 ♂♂, 12.viii.–9.ix.2010, Mt, 1 ♂, 9.ix.–22.x.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, Výzkum hill, restored grassland (208), 27.vii.2000, 1 ♂, I. Malenovský lgt., 16.viii.2000, 1 ♂, 20.ix.2001, 1 ♂, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 28.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Radějov, Měsíční údolí valley (214), 8.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt., 20.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Radějov, Kútky NR (217), 15.vii.–5.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, village (222), 19.vi.2000, on deciduous trees, 1 ♂, P. Kment lgt. (PKPC). Velká nad Veličkou, old cemetery (223), 18.viii.2000, 6 ♂♂, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 18.viii.2000, 1 ♂, P. Kment lgt. (PKPC). Javorník, village (239), 8.viii.2001, 9 ♂♂, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 2.–25.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 16.ix.–21.x.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 15.vi.–13.vii.2010, Mt, 4 ♂♂, 13.vii.–10.viii.2010, Mt, 2 ♂♂, 10.viii.–7.ix.2010, Mt, 2 ♂♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 28.v.–18.vi.2007, Mt, 1 ♂, 9.vii.–2.viii.2007, Mt, 2 ♂♂, 10.ix.–3.x.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 8.–28.v.2007, Mt, 1 ♂, 18.vi.–9.vii.2007, Mt, 1 ♂, 2.–22.viii.2007, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Eurosiberian. **Biology and habitat:** Zoophagous, also sucking on pollen. Euryecious, on herbaceous vegetation as well as deciduous trees in humid to dry habitats. Very common (WACHMANN *et al.* 2006). **Red List status:** –.

***Orius (Heterorius) vicinus* (Ribaut, 1923)**

Material examined. Petrůvka, U Petrůvky NM (14), 6.viii.1999, 1 ♂, P. Kment lgt. (PKPC); 23.vi.–16.vii.2008, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nedašov, village (51), ruderal vegetation, 17.viii.2006, 3 ♂♂, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55), 16.viii.2006, 1 ♂ 3 ♀♀, P. Kment lgt. (PKPC). Petrůvka, Kladenka brook valley (64), 4.–25.viii.2008, Mt, 1 ♂, 23.ix.–29.x.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Žitková, Hutě NR (164), 19.vi.–11.vii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 22.ix.2007, 1 ♂, P. Kment lgt. (PKPC). Radějov, Mandát brook valley below Kútky NR (218), 26.viii.–24.ix.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, village (222), 19.vi.2000, on deciduous trees, 2 ♂♂, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 1 ♂, P. Kment lgt. (PKPC). Javorník, village (239), 8.viii.2001, 1 ♂, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 2.–25.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 9.vii.–12.viii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, but quite rare. **General distribution:** Holarctic (Eurosiberian, Central Asiatic, and

Nearctic). **Biology and habitat:** Zoophagous, also sucking on pollen. On herbaceous vegetation as well as shrubs, deciduous trees, and more rarely conifers. Euryecious, in humid to dry habitats, natural sites, as well as ruderal vegetation and in gardens. Widespread, but quite rare (WACHMANN *et al.* 2006). **Red List status:** –.

Orius (Orius) niger (Wolff, 1811)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Poteč, Ploštiny NR (42), 1.vi.2002, 1 ♂, I. Malenovský lgt., 17.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 5.x.2004, 1 ♀, I. Malenovský lgt. (PKPC). Nedašov, meadow E of Jalovcová stráž NR (59), 30.vi.2004, 3 ♀♀, I. Malenovský lgt. (PKPC). Slavičín (69), 10.vii.1989, 1 ♂, I. Vavřínová lgt. (MMBC). Nedašov, Pod Cigánem NM (91), 5.x.2004, 1 ♀, I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Vinohrádky (121), 21.ix.2001, 1 ♀, P. Kment lgt., 20.vii.2002, 3 ♀♀, 10.ix.2002, 2 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Bánov, Skalky hill (125), 21.viii.1984, 2 ♂♂, P. Lauterer lgt. (MMBC). Strání, Obecnice hill, at transmission tower (144), 21.ix.2001, 1 ♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 9.–29.v.2007, Mt, 2 ♂♂ 1 ♀, 29.v.–19.vi.2007, Mt, 1 ♀, 11.–31.vii.2007, Mt, 1 ♀, 12.ix.–2.x.2007, Mt, 1 ♂, 2.–31.x.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Vápenice, V Krátkých (170), 6.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Výškovecké Bošачky, meadow and orchard (180), 19.viii.2004, 2 ♀♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 25.v.2000, 20 ♂♂ 2 ♀♀, P. Kment & I. Malenovský lgt., 18.vi.2000, 1 ♂ 18 ♀♀, I. Malenovský lgt., 8.vii.2000, 2 ♂♂ 4 ♀♀, P. Kment lgt., 27.vii.2000, 24 ♂♂ 130 ♀♀, P. Kment & I. Malenovský lgt., 4.viii.2000, 2 ♂♂, 16.viii.2000, 6 ♂♂ 25 ♀♀, P. Kment lgt., 1.x.2000, 3 ♂♂, 22.x.2000, 3 ♂♂ 1 ♀, 28.vii.2001, 7 ♂♂ 12 ♀♀, P. Kment & I. Malenovský lgt., 20.ix.2001, 39 ♂♂ 7 ♀♀, 4.x.2002, 2 ♀♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Hrubá Vrbka, village (212), 27.–29.vi.2008, 1 ♀, Z. Malinka lgt. (ZMOC). Velká nad Veličkou, village (222), 19.vi.2000, 1 ♀, P. Kment lgt., 9.ix.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 9.–10.ix.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Suchovské Mlýny, sheep pasture (226), 1.x.2004, 2 ♂♂, I. Malenovský lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 27.vii.2005, 1 spec., I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 2.–25.vi.2009, Mt, 1 ♂, 14.ix.–22.x.2009, Mt, 3 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, village (239), 8.viii.2001, 1 ♂ 3 ♀♀, P. Kment lgt. (PKPC). Velká nad Veličkou, towards Javorník (240), 10.vi.1982, 1 ♀, P. Lauterer lgt. (MMBC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 5.–24.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 17.vii.2002, 1 ♂ 7 ♀♀, 7.ix.2002, 1 ♂, 1.x.2004, 3 ♂♂, 1.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 23.vi.2004, 1 ♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 3.–22.vi.2009, Mt, 1 ♀, 16.ix.–22.x.2009, Mt, 3 ♂♂ 3 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 7.ix.–21.x.2010, Mt, 3 ♂♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 8.–28.v.2007, Mt, 1 ♀, 9.vii.–2.viii.2007, Mt, 1 ♂ 1 ♀, 2.–22.viii.2007, Mt, 1 ♀, 22.viii.–10.ix.2007, Mt, 2 ♀♀, 10.ix.–3.x.2007, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 18.vi.–9.vii.2007, Mt, 2 ♀♀, 9.vii.–2.viii.2007, Mt, 1 ♀, 22.viii.–10.ix.2007, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 9.viii.2001, 1 ♂ 2 ♀♀, P. Kment lgt., 20.vii.2002, 2 ♀♀, I. Malenovský lgt. (PKPC). Strání, Javorina NNR, meadow (270), 4.vii.2001, 2 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC); 6.–24.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common in the southern part of the area, quite rare elsewhere. **General distribution:** Holopalaeartic; extending to India. **Biology and habitat:** Zoophagous, also sucking on pollen. Euryecious, largely found on herbaceous vegetation, especially flowers. Very common (WACHMANN *et al.* 2006). **Red List status:** –.

Temnostethus (Temnostethus) pusillus (Herrich-Schaeffer, 1835)

Material examined. Kněždub, Čertoryje NNR, Radějovka brook (204), 25.v.–15.vi.2010, Mt, 1 spec., P. Chvojka & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 24.viii.–14.ix.2009, Mt, 1 ♀, 14.ix.–22.x.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 24.v.–15.vi.2010, Mt, 1 spec., P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 15.vi.–13.vii.2010, Mt, 1 ♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 15.vi.–9.vii.2010, Mt, 1 ♀, 9.ix.–22.x.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, forest (269), under bark of fallen stem, 3.vii.2001, 1 ♀, M. Horskák & P. Kment lgt. (PKPC).

Additional material examined. MORAVIA: Brno – Líšeň, Kavky NM (6766), sweeping of *Quercus* sp., 8.vi.2007, 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Collected in the southern part of the area, quite rare. **General distribution:** European, extending to Transcaucasia. **Biology and habitat:** Zoophagous. On the bark of trunks and branches covered with lichens: on deciduous trees (e.g. *Fraxinus*, *Malus*), rarely conifers. Widespread, but rare (WACHMANN *et al.* 2006). DOBŠÍK (1984) reported a finding of adults and numerous larvae under the bark of *Larix decidua* infested with *Sacchiphantes viridis* (Ratzeburg, 1843) (Aphidoidea: Adelgidae). **Red List status:** –.

Comments. For Moravia recorded “um Brunn” [= in the environs of Brno] (67–6865, 67–6866) (SPITZNER 1892), Křtiny (66–6766) (DOBŠÍK 1984), and Lednice (Horní les floodplain forest, 7166) (KŘÍSTEK 1991).

Tetraphleps bicuspis (Herrich-Schaeffer, 1835)

Material examined. Kněždub, Radějovka brook valley below Čertoryje (198), on *Larix decidua*, 8.vii.2000, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), on *Larix decidua*, 19.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Strání, Javorina NNR, meadow (270), 3.–23.vi.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Additional material examined. MORAVIA: Větkovice (6273), 24.ix.1995, 1 ♂, J. Bryja lgt. et det., P. Kment det. (JBSC). Ostravice – Skalka (6476), mesophilous meadow, 580 m a.s.l., 19.vii.1991, 1 ♀, M. Roháčová lgt. et det., P. Kment revid. (MBFC).

Distribution and frequency in the Bílé Karpaty PLA: Collected in the southern parts of the area, rare. **General distribution:** Eurosiberian. **Biology and habitat:** Zoophagous. On *Larix decidua*, less frequently on other conifers (*Picea*, *Abies*, *Pinus*, *Juniperus*). Preferring higher altitudes, in lowlands scattered and quite rare (WACHMANN *et al.* 2006). **Red List status:** –.

Comments. In Moravia known from the environs of Třebíč (Ptáčovský žleb valley, 6761) (STEHLÍK 1945a), the Rychlebské hory Mts. (ŠTYS 1959), and Jeseník nad Odrou (6373) (BRYJA & KMENT 2001).

Xylocoris (Proxylocoris) galactinus (Fieber, 1836)

Material examined. Žitková, Hutě NR (164), 11.–31.vii.2007, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Javorník, Jazevčí NNR (232), 12.v.–2.vi.2009, Mt, 1 ♂, 5.–24.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 25.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Additional material examined. MORAVIA: Šilheřovice (6075), park, sifting of decaying grass, 5.xii.2004, 2 ♂♂, M. Mantič lgt. (MMHC, PKPC). Děhylov (6174), sifting of dung, 28.x.1998, 2 ♀♀, M. Mantič lgt. (MMHC, PKPC). Hlučín – Bobrovniky (6175), garden, sifting of compost, 21.viii.2003, 3 ♂♂, M. Mantič lgt. (MMHC, PKPC). Větrkovice (6272), in village, 13.vi.2001, 1 ♂, J. Bryja lgt. (JBSC). Dobruška (6376), sifting of rabbit dung, 29.ix.2001, 1 ♂, M. Mantič lgt. (MMHC).

Distribution and frequency in the Bílé Karpaty PLA: Collected in the central and southern parts of the area with Malaise traps, rare. **General distribution:** Holarctic (Holopalaearctic and Nearctic). **Biology and habitat:** Zoophagous. Living in warm places with higher metabolic activity of microorganisms, mostly around human dwellings, such as heaps of compost, dung, stables, glasshouses, haylofts, and silos. Also found in nests of ants (e.g. *Tetramorium caespitum* Linnaeus, 1756) and small mammals. Widespread, not rare (WACHMANN *et al.* 2006). **Red List status:** –.

Comments. In Moravia first recorded from Zlín (6771–72) by BALTHASAR (1945). Additional records were obtained by sifting of a mouldy hay in Ostrava – Poruba (6174) and Polanka nad Odrou (6275) (BRYJA & KMENT 2001).

Xylocoris (Xylocoris) cursitans (Fallén, 1807)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Pitín, Vlčí potok valley (75), 5.xi.2007, 1 ♂ (br), O. Konvička lgt. (OKZC). Strání, Důbrava hill (150), 7.vii.1980, 1 ♂ (ma) 3 ♂♂ 1 ♀ (br), L. Pospíšilová lgt. (MMBC). Žitková, Hutě NR (164), 19.vi.–11.vii.2007, Mt, 1 ♀ (ma), 11.–31.vii.2007, Mt, 1 ♀ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), under bark of old *Cerasus*, 22.ix.2007, 1 ♂ 2 ♀♀ (br), P. Kment lgt. (PKPC). Hrubá Vrbka, village (212), old poplar logs, under bark, 2.ix.2005, 1 ♂ 1 ♀ (br), P. Kment lgt. (PKPC). Javorník, towards Suchovské Mlýny, Velička river valley (233), bank of Velička river upstreams Javorník river, logs (N 48°51'56" E 17°32'29"), 8.x.2008, 1 ♂ 1 ♀ (br), P. Komzák lgt. (PKBC). Strání, Záhumenice NM (266), under bark of stakes in a fence, 9.viii.2001, 1 ♂ (br) 1 ♀ (ma) 1 ♀ (br), P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Collected in the central and southern parts of the area, not rare. **General distribution:** Holarctic (Eurosiberian, extending to Maghreb and Nearctic). **Biology and habitat:** Zoophagous. Under the loose bark of dead deciduous trees (*Fagus sylvatica*, *Quercus*), rarely conifers (*Pinus*, *Picea*), in moist to dry conditions. Widespread, not rare (WACHMANN *et al.* 2006). **Red List status:** –.

Comments. In Moravia recorded from Brunn [= Brno] (6765–66, 6865–66) (SPITZNER 1892, as *Piezostethus cursitans*). BALTHASAR (1945) considered it as a quite frequent species in the environs of Zlín (6771–72). ŠTYS (1959) added three localities from the Rychlebské hory Mts.: Nové Vilémovice (5667), Homole [= Mt. Strážiště] (5667), and Hraničky (5667d). Additional records were provided by DOBŠÍK (1977) from Hlučín (60–6175), RUS (2005) from Miroslav (7063), Pouzdřany (7065) and Znojmo (7162), and ROHÁČOVÁ (2011) from Krásná pod Lysou horou (Obidová NM, 6477).

True bugs (Hemiptera: Heteroptera)

Family LYCTOCORIDAE

Lyctocoris (Lyctocoris) campestris (Fabricius, 1794)

Material examined. Petrov, Staré hory hill (186), on *Tilia* sp., 19.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 4.–24.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Additional material examined. MORAVIA: Opava (6073), 1.i.2000, 1 ♀, Z. Malinka lgt. (ZMOC). Brno – Líšeň (6766), 22.viii.1971, 1 ♀, Grulich lgt. (MMBC). Větrkovice (6272), in village, at light, 14.v.2001, 1 ♀, J. Bryja lgt. (JBSC). Velká Lhota (6574), “U Malíků”, sifting of abandoned *Parus major* nest built in a nest box, 23.i.2000, 1 ♂ 4 ♀♀ 2 L, J. Martinek lgt. (MHBC, PKPC). Hovorany, Hovoranské louky NR (7067), 230–250 m a.s.l., 20.vi.1984, 1 ♂, J. L. Stehlík lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only in two localities in the southern part of the area. **General distribution:** Cosmopolitan, probably native in the Palaearctic Region. **Biology and habitat:** Zoophagous, occasionally a blood-sucking ectoparasite of birds and mammals, including humans (ŠTYS & DANIEL 1958, WACHMANN *et al.* 2006). In heaps of straw or hay, under leaf-litter, in compost, bird and mammal nests, as well as inside of buildings (stables, barns, storehouses, flats, etc.) (WACHMANN *et al.* 2006). **Red List status:** –.

Family CIMICIDAE

Cimex pipistrelli Jenyns, 1839

Material examined. Luhačovice, Serenyi palace (63), colony of *Myotis myotis*, 29.vii.2006, 229 spec., Wolf lgt., O. Balvín det. (OBPC). Komňa, church (126), colony of *Myotis myotis*, 29.vii.2006, 24 ♂♂ 29 ♀♀, Wolf lgt., O. Balvín det. (OBPC). Lipov, church (99), colony of *Myotis myotis*, 29.vii.2006, 10 spec., Wolf lgt., O. Balvín det. (OBPC).

Distribution and frequency in the Bílé Karpaty PLA: Collected at three synanthropic sites only. **General distribution:** Eurosiberian. **Biology and habitat:** An obligatory blood-sucking ectoparasite of bats (especially *Myotis myotis*), occurring in their summer breeding places (WACHMANN *et al.* 2006). Not rare. **Red List status:** –.

Comments. The taxonomic status and biology of the bat bugs is currently under revision (e.g. BARTONIČKA 2007, BALVÍN 2008; O. Balvín, pers. comm.).

Oeciacus hirundinis (Lamarck, 1816)

Published record. STEHLÍK (1945a): Hluk (7071).

Material examined. Luhačovice, building of the Bílé Karpaty PLA Management (2), at the nest of *Delichon urbica*, 15.iv.2010, 4 ♂♂ 2 ♀♀, 12.vi.2010, 2 ♂♂ 4 ♀♀ 3 L, O. Konvička lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Recently collected only at one site in the northern part of the area, but probably undersampled. **General distribution:** Holopalaearctic (except south-eastern areas). **Biology and habitat:** An obligatory blood-sucking ectoparasite, dwelling in nests of swallows and martins (*Hirundo rustica*, *Delichon urbica*, *Riparia riparia*), and swifts (*Apus apus*), rarely of other birds (*Passer*). On hot summer days or in autumn after departure of the hosts, the bugs may enter human

flats and attack people. Widespread, but only rarely collected (WACHMANN *et al.* 2006).

Red List status: –.

Comments. For Moravia previously recorded only by STEHLÍK (1945a) from Hluk.

Family REDUVIIDAE

Empicoris culiciformis (De Geer, 1773)

Material examined. Hrubá Vrbka, village (212), old poplar logs, under bark, 2.ix.2005, 1 L, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Collected only at one site in the southern part of the area but probably undersampled. **General distribution:** West Palaearctic; introduced to North America and Chile. **Biology and habitat:** Zoophagous, preying e.g. on small Diptera and Psocoptera. Naturally it occurs beneath the bark of trees, in tree holes, nests of birds and squirrels, as well as under stones, heaps of fallen leaves and straw. Commonly collected under synanthropic conditions on the walls of houses as well as inside of buildings; it can live in spider webs; also attracted to light. Widespread, not rare (STEHLÍK & VAVŘINOVÁ 1997a, WACHMANN *et al.* 2006). **Red List status:** –.

Empicoris vagabundus (Linnaeus, 1758)

Material examined. Nedašov, village (51), at church, on *Thuja occidentalis*, 17.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Kuželov, right-side spring brook of Malanský potok brook (213), 4.vii.2002, 1 ♂, M. Horsák lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** Holarctic (Eurosiberian and Nearctic); introduced to Chile. **Biology and habitat:** Zoophagous (preying e.g. on Psocoptera). Arboricolous, found on both deciduous trees and conifers, dwelling mostly on the trunk and branches covered with moss and lichens and preferring shaded microhabitats. Not found in synanthropic conditions in Moravia so far. Widespread, not rare (STEHLÍK & VAVŘINOVÁ 1997a, WACHMANN *et al.* 2006). **Red List status:** –.

Phymata crassipes (Fabricius, 1775)

Published records. STEHLÍK & VAVŘINOVÁ (1997a): Kněždub, Čertoryje NNR (202); Javorník (7171), above the village; Javorník, Výzkum [hill] (258); Nová Lhota, Fojtičky mill [= Fojtické Mlýny] (245).

Material examined. Nedašov, Jalovcová stráň NR (54), 3.vii.1999, 6 ♂♂, P. Kment & I. Malenovský lgt. (MUBC, PKPC); 28.v.2005, 1 ♂, I. Malenovský lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 7.v.2008, 1 ♂, O. Konvička lgt. (OKZC). Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 1 ♂, 8.viii.2007, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.v.1998, 1 ♂, P. Kment lgt. (PKPC); 13.vii.1998, 2 ♂♂ 1 ♀, P. Kment & M. Omesová lgt. (MUBC, PKPC); 19.vi.2000, 2 ♂♂ 1 ♀, P. Kment lgt., 24.vii.2000, 1 ♂, I. Malenovský lgt., 9.–10.ix.2000, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 29.viii.2005, 1 ♂, M. Horsák lgt. (MHBC); 25.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & M.

Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♂, 26.v.2005, 1 ♂, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: In xerothermic sites throughout the area, most records coming from the southern part. **General distribution:** Holopalaeartic (except south-eastern areas). **Biology and habitat:** Zoophagous. On herbaceous vegetation (e.g. on flowers), mostly in xerothermic localities. Widely distributed but mainly found at lower altitudes, up to 600 m a.s.l.; not rare (STEHLÍK & VAVŘÍNOVÁ 1997a, WACHMANN *et al.* 2006). **Red List status:** –.

Reduvius personatus (Linnaeus, 1758)

Published record. STEHLÍK & VAVŘÍNOVÁ (1997a): Pitín (6973).

Additional material examined. MORAVIA: Břeclav, Pohansko (7267, N 48°43'37.21" E 16°53'53.17"), under loose bark of an old dead oak trunk, evening, 17.vii.2004, 1 ♂ 1 ♀, M. Horsák & P. Kment (NMPC, MHBC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, not collected in the course of the recent survey. **General distribution:** West Palaearctic; introduced to North America. **Biology and habitat:** Zoophagous, preying on almost every arthropod group living inside of buildings (STEHLÍK & VAVŘÍNOVÁ 1997a, WACHMANN *et al.* 2006). In the Czech Republic known almost exclusively from synanthropic habitats (e.g. farm buildings, old wooden houses, latrines, storerooms, but also in flats) (STEHLÍK & VAVŘÍNOVÁ 1997a, KMENT & BRYJA 2001); collected only twice in natural habitats in the southernmost Moravia – in a salt marsh by Velké Němčice (STEHLÍK & VAVŘÍNOVÁ 1997a) and in the Pohansko deergame park (this paper). **Red List status:** –.

Rhynocoris (Rhynocoris) annulatus (Linnaeus, 1758)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected at one locality in the southern part of the area. **General distribution:** Eurosiberian. **Biology and habitat:** Zoophagous (preying mostly on caterpillars of Lepidoptera, but also attacking larvae of Chrysomelidae and Hymenoptera, and other arthropods). Euryecious, in various dry to humid habitats, on herbaceous vegetation as well as on trees. In Moravia most frequently found in forest clearings in hilly landscapes. Widespread, but generally quite rare (STEHLÍK & VAVŘÍNOVÁ 1997a, WACHMANN *et al.* 2006). **Red List status:** –.

Rhynocoris (Rhynocoris) iracundus (Poda, 1761)

Material examined. Radějov, Žerotín NM (188), 4.–26.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only with a Malaise trap in a single locality on the southern border of the area. **General distribution:** Holopalaeartic (except northern areas). **Biology and habitat:** Zoophagous. In open,

sunny, xerothermic sites on sandy as well as rocky substrates; adults mostly dwell on herbaceous vegetation and flowers, rarely on trees, while larvae stay near the ground. Widespread in warm and moderately warm regions of Moravia, preferring very warm sites (STEHLÍK & VAVŘINOVÁ 1997a, WACHMANN *et al.* 2006). **Red List status:** –.

Family ARADIDAE

Aneurus (Aneurodes) avenius (Dufour, 1833)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Svatý Štěpán, Chladný vrch NM (93), 12.vi.2007, 1 ♀, O. Konvička lgt. (OKZC). Svatý Štěpán, Okrouhlá NM (97), 11.ix.2011, 5 ♀♀, E. Ezer lgt. (EEZC, NMPC). Horní Němčí, Uvezené NM (120), 7.ii.2009, sifting, 1 ♀, J. Ch. Vávra lgt. (OMOC); 10.vii.2009, 1 ♀, Z. Malinka lgt. (ZMOC). Starý Hrozenkov, Hrozenkovské terasy (167), under bark of old *Cerasus vulgaris*, 22.ix.2007, 2 ♀♀, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 25.v.1998, 1 ♂, J. Strejček (OBPC); 18.iv.2006, 1 ♂ 2 ♀♀, O. Konvička lgt. (PKPC). Vápenky (248), 5.iv.1978, 1 ♂, J. Jelínek (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 5.–24.v.2010, Mt, 1 ♀, 24.v.–15.vi.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 7.iv.–5.v.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area.

General distribution: Eurosiberian, extending to Maghreb, Anatolia and Transcaucasia.

Biology and habitat: Mycophagous. Found under the loose bark of logs and branches lying on the ground, predominantly of deciduous trees and shrubs (*Fagus*, *Quercus*, *Carpinus*, *Tilia*, *Betula*, *Alnus*, *Ligustrum*, etc.), but also recorded from *Larix* and *Abies*. Widespread, not rare (STEHLÍK & HEISS 2000, HEISS & PÉRICART 2007, WACHMANN *et al.* 2007). **Red List status:** –.

Aneurus (Aneurus) laevis (Fabricius, 1775) (VU)

Material examined. Starý Hrozenkov, Skalka quarry (169), under bark of dead *Salix* sp., 22.ix.2007, 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only in a single site in the central part of the area. **General distribution:** West Palaearctic. **Biology and habitat:** Mycophagous, associated with polyporous fungi (*Trametes versicolor*, *Stereum hirsutum*, *Corticium*, *Polyporus*, etc.). Found under the loose bark of dead logs and branches, often lying on the ground, predominantly of deciduous trees (*Fagus*, *Quercus*, *Carpinus*, *Tilia*, *Betula*, *Alnus*, etc.). Rare (STEHLÍK & HEISS 2000, HEISS & PÉRICART 2007). **Red List status:** Vulnerable.

Aradus (Aradus) betulae (Linnaeus, 1758)

Material examined. Nedašov, Jalovcová stráž NR (54), 2.vi.2005, 1 ♂ 1 L5, O. Konvička lgt. (OKZC). Lopeník, Velký Lopeník env. (181), 30.iv.2007, 1 ♂, O. Konvička lgt. (OKZC). Strání, Javorina NNR, forest (269), 31.viii.2005, valley of Velička spring, 1 ♂, M. Horsák lgt. (MHBC); 26.vii.2007, 1 ♂, O. Konvička lgt. (OKZC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, but rare. **General distribution:** Eurosiberian and Central Asiatic. **Biology and habitat:**

Mycophagous, associated with tree fungi (*Fomes*, *Leptoporus*, *Piptoporus*, *Trametes*, etc.) on deciduous trees (*Betula*, *Fagus sylvatica*, *Populus*, *Salix*, *Quercus*, etc.). Widespread, not rare (STEHLÍK & HEISS 2000, HEISS & PÉRICART 2007, WACHMANN *et al.* 2007). **Red List status:** –.

Aradus (Aradus) cinnamomeus Panzer, 1806

Material examined. Štítná nad Vláří, south-exposed slopes N of the village (74), 22.v.2006, 1 ♀ (br), O. Konvička lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only in a single site in the northern part of the area. **General distribution:** West Eurosiberian, extending to the Near East. **Biology and habitat:** Phytophagous, feeding on live tissues of *Pinus* (especially *Pinus sylvestris*), rarely on other conifers. Widespread, not rare (STEHLÍK & HEISS 2000, HEISS & PÉRICART 2007, WACHMANN *et al.* 2007). **Red List status:** –.

Aradus (Aradus) conspicuus Herrich-Schaeffer, 1835

Published record. STEHLÍK & HEISS (2000): Strání, Důbrava hill (150).

Material examined. Sidonie, Sidonie NR (87), 12.vi.2006, 1 ♀, O. Konvička lgt., 7.iv.–5.v.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Svatý Štěpán, Chladný vrch NM (93), 12.vi.2007, 1 ♀, O. Konvička lgt. (OKZC). Svatý Štěpán, Okrouhlá NM (97), 8.xi.2006, 1 ♂, O. Konvička lgt. (OKZC); 11.ix.2011, 1 ♂, E. Ezer lgt. (EEZC). Březová, Velký Lopeník Mt. (162), under bark of fallen *Fagus sylvatica*, 15.viii.2001, 5 ♀♀ 7 L, M. Horsák & J. Horsáková lgt. (KHMC, PKPC). Javorník, Machová NR (259), 8.–28.v.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, but quite rare. **General distribution:** West Eurosiberian, extending to Maghreb and Anatolia. **Biology and habitat:** Mycophagous, associated with polyporous fungi (*Polyporus*, *Leptoporus*, *Fomes*, *Coriolus*, *Trametes*), predominantly found on deciduous trees (especially *Fagus sylvatica*, also on *Populus*, *Tilia*, *Quercus*, etc.), exceptionally on conifers. Widespread, not rare (STEHLÍK & HEISS 2000, HEISS & PÉRICART 2007, WACHMANN *et al.* 2007). **Red List status:** –.

Aradus (Aradus) depressus depressus (Fabricius, 1794)

Published records. HOBERLANDT (1956): [Kněždub], Šumárník [hill] (7170). STEHLÍK & HEISS (2000): [Kněždub], Horní Mlýn, Šumárník hill (7170).

Material examined. Valašské Klobouky, Javorůvky NR (32), 20.v.2006, 1 ♀, P. Komzák lgt. (PKBC). Nedašova Lhota, S slope of Maleník hill (61), sifting of litter, 30.i.2008, 1 ♀, O. Konvička lgt. (OKZC). Petřůvka, Kladenka brook valley (64), 13.v.–3.vi.2008, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Sidonie, Sidonie NR (87), under bark of *Fagus sylvatica*, 2.viii.2006, 1 ♀, O. Konvička lgt.; 7.iv.–5.v.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Svatý Štěpán, Chladný vrch NM (93), 24.v.–16.vi.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Horní Němčí, Uvezené NM (120), 7.ii.2009, sifting, 1 ♀, J. Ch. Vávra lgt. (OMOC). Radějov, Mandát brook valley below Kútky NR (218), 14.v.–4.vi.2008, Mt, 1 ♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 12.v.–2.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 7.iv.–12.v.2009, Mt, 2 ♂♂ 1 ♀, 12.v.–3.vi.2009, Mt, 2 ♀♀, P. Chvojka, J. Ježek

& J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 7.iv.–5.v.2010, Mt, 1 ♀, 24.v.–15.vi.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 25.v.–15.vi.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** Eurosiberian, extending to Anatolia and Transcaucasia. **Biology and habitat:** Mycophagous, associated with polyporous fungi (*Coriolus*, *Trametes*, *Oxyporus*, *Euraca*, etc.) on deciduous trees (*Betula*, *Populus*, *Acer*, *Alnus*, *Quercus*, *Fagus*, etc.), exceptionally on *Pinus*. Widespread, not rare (STEHLÍK & HEISS 2000, HEISS & PÉRICART 2007, WACHMANN *et al.* 2007). **Red List status:** –.

Aradus (Aradus) ribauti Wagner, 1956

Published record. KMENT *et al.* (2005): Hrubá Vrbka, village, on felled trunks (212).

Additional material examined. MORAVIA: Napajedla, Pěnné oxbow lake, Pahrbek recreation area (6871, N 49°09'21" E 17°30'40"), 28.iii.2012, 3 ♂♂, M. Straka lgt. (MSHC, NMPC). Uherské Hradiště, Kunovský les woodpark near (6970b, N 49°03'48.5" E 17°26'00.5"), floodplain forest, under bark of a tree, 15.iii.2008, 1 ♀, M. Tkoč lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only in one site in the southern part of the area. **General distribution:** West Eurosiberian. **Biology and habitat:** Mycophagous. Found on and under the loose bark of *Populus*, infested by fungi (e.g. *Pholiota*, *Funalia*, *Fomes*, *Pleurotus*, *Rigidoporus*) (STEHLÍK & HEISS 2001, HEISS & PÉRICART 2007, WACHMANN *et al.* 2007). **Red List status:** Not evaluated.

Comments. For the Czech Republic previously recorded only from Hrubá Vrbka in the Bílé Karpaty PLA (KMENT *et al.* 2005). Here we present two additional records, including first males from the country.

Aradus (Aradus) versicolor Herrich-Schaeffer, 1835 (VU)

Published record. STEHLÍK & HEISS (2000): Strání, Důbrava hill (150).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, not collected in the course of the recent survey. **General distribution:** West Eurosiberian, extending to Anatolia, Iran and Turkmenistan. **Biology and habitat:** Mycophagous, associated with polyporous fungi (*Coriolus*, *Trametes*, *Stereum*, *Polyporus*, *Funalia*) on deciduous trees (especially *Fagus*, also *Quercus*, *Betula*, *Salix*, *Populus*, and *Platanus*). Rare (STEHLÍK & HEISS 2000, HEISS & PÉRICART 2007, WACHMANN *et al.* 2007). **Red List status:** Vulnerable.

Family LYGAEIDAE

Kleidocerys resedae resedae (Panzer, 1797)

Published record. STEHLÍK & VAVŘINOVÁ (1997b): Starý Hrozenkov, Mikulčín vrch Mt. (160).

Material examined. Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 3 ♂♂ 1 ♀, M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Brumovská street (30), 9.ix.1999, 1 ♂, I. Malenovský lgt. (PKPC). Poteč, Ploščiny NR (42), 4.vii.1999, 2 ♀♀, P. Kment & I. Malenovský lgt., 13.ix.1999, 2 ♂♂ 4 ♀♀, I.

Malenovský & T. Vymyslický lgt., 1.vi.2002, 2 ♂♂ 4 ♀♀ 1 L5, I. Malenovský lgt., 17.viii.2006, 5 ♂♂ 4 ♀♀, P. Kment lgt. (PKPC); 10.iv.2008, 1 ♂, O. Konvička lgt. (OKZC). Valašské Klobouky, Královec – Ploščiny ridge (43), 4.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Brumov, Uhličky (44), 28.v.2005, 1 ♂, I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt., 14.viii.2006, 4 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, meadow (48), 19.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 3.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt., 28.vii.2005, 1 ♀, I. Malenovský lgt., 16.viii.2006, 9 ♂♂ 7 ♀♀, P. Kment lgt. (PKPC). Nedašov, Hrušová dolina valley (53), 3.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54) and along road to Nedašov (52), 10.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Kaňoury NM (55), 20.v.1999, 1 ♂, 12.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt., 16.viii.2006, 2 ♂♂, P. Kment lgt. (PKPC). Nedašov, Kaňúr hill (56), 20.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 1 ♂, P. Kment & M. Omesová lgt. (PKPC); 12.ix.1999, 2 ♂♂ 1 ♀, I. Malenovský & T. Vymyslický lgt. (MUBC, PKPC). Bylnice, railway station environs (83), 1.vii.1999, 3 ♀♀, P. Kment & M. Omesová lgt., 21.v.1999, 2 ♂♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 30.vi.2004, 27 ♂♂ 54 ♀♀, 1.ix.2004, 55 ♂♂ 48 ♀♀, 5.x.2004, 41 ♂♂ 27 ♀♀, 28.v.2005, 6 ♂♂ 20 ♀♀, 28.vii.2005, 7 ♂♂ 5 ♀♀, 6.ix.2005, 25 ♂♂ 17 ♀♀, I. Malenovský lgt. (PKPC). Korytná, Březí (113), 5.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 16.viii.2009, 7 ♂♂ 4 ♀♀, P. Baňaf lgt. et det. (MMBC). Horní Němčí, village (109), on *Betula* sp., 13.viii.2001, 1 ♂, P. Kment lgt. (PKPC). Horní Němčí, Drahy NR (117), 23.v.2002, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Strání, village (147), on *Betula* sp., 10.vii.1998, 1 ♂, P. Kment lgt. (PKPC). Lopeník (152), 8.vi.1999, 1 ♀, K. Hradil lgt. et det. (KHMC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 25.ix.2004, 2 ♂♂ 1 ♀, 21.v.2005, 1 ♂, I. Malenovský lgt. (PKPC). Lopeník, U Zvonice NM (155), 27.vi.2004, 1 ♂, I. Malenovský lgt., 18.viii.2004, 1 ♂, P. Kment lgt., 25.ix.2004, 1 ♂ 1 ♀, 21.v.2005, 4 ♂♂ 1 ♀, 24.vii.2005, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 1 ♂, 29.v.–19.vi.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 1 ♂, P. Kment lgt. (PKPC). Vápenice, V Krátkých (170), 6.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Výškovce, Pod Hřibovnou NM (176), 25.ix.2004, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Výškovce, Ve Vlčí NR (177), 22.v.2005, 2 ♀♀, I. Malenovský lgt. (PKPC). Výškovce, Bošačky, cattle pasture (179), 27.vi.2004, 1 ♂, I. Malenovský lgt., 25.ix.2004, 2 ♂♂, 24.vii.2005, 1 ♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 11.vii.1998, P. Kment observ.; 24.ix.–27.x.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Dolní Mlýn (195), on *Betula* sp., 11.vii.1998, P. Kment observ. Kněždub, Radějovka brook valley below Čertoryje (198), 17.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 14.ix.2004, 1 spec., M. Horsák lgt. (MHBC). Kněždub, Čertoryje NNR, Radějovka brook (204), 5.–25.v.2010, Mt, 1 ♂, 25.v.–15.vi.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Velká nad Veličkou, village (222), on *Betula* sp., 13.vii.1998, 2 ♀♀, P. Kment lgt. (PKPC); 18.iv.2000, at church, 5 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (MUBC, PKPC); 19.vi.2000, numerous spec., P. Kment observ. Velká nad Veličkou, Zahrady pod Hájem NNR (225), 2.–25.vi.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Trnovský Mlýn, meadow (229), 26.v.2005, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 15.vii.1998, 1 ♀, P. Šmarda lgt. (PKPC); 25.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Nad Vápenkou NM (236), 7.ix.2002, 2 ♀♀, I. Malenovský lgt. (PKPC). Javorník, village (239), 6.v.2000, on *Betula* sp., 3 ♀♀, I. Malenovský lgt., 8.viii.2001, 1 ♀, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 6.iv.–12.v.2009, Mt, 2 ♂♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, meadow (243), 24.v.2002, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 16.ix.–22.x.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Vápenky, Porážky NNR (247), 9.ix.1998, 1 ♀, I. Malenovský & M. Omesová lgt. (PKPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 7.iv.–12.v.2009, Mt, 1 ♂ 1 ♀, 22.vi.–15.vii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 7.ix.–21.x.2010, Mt, 1 ♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 8.v.2000, 1 ♂, I. Malenovský lgt. (PKPC); 5.–24.v.2010, Mt, 2 ♀♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 2.vii.2001, 2 ♀♀, P. Kment & I. Malenovský lgt., 23.v.2002, 1 ♂ 1 ♀, P. Kment lgt. (PKPC); 25.v.–15.vi.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 3.–23.vi.2009, Mt, 3 ♂♂ 3 ♀♀, 15.vii.–6.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Eurosiberian, extending to Anatolia, and Central Asiatic. **Biology**

and habitat: On *Betula pendula* and *B. pubescens*, more rarely on *Alnus*, other deciduous trees or even conifers. Eurytopic and very common, including urban environments, sometimes occurring in masses and/or entering buildings (STEHLÍK & VAVŘÍNOVÁ 1997b, STEHLÍK 1998a, WACHMANN *et al.* 2007). **Red List status:** –.

Lygaeus equestris (Linnaeus, 1758)

Material examined. Nedašov, Kaňoury NM (55), 17.vi.2006, 1 ♀, I. Malenovský lgt. (PKPC). Radějov, Žerotín NM (188), 11.vii.1998, 2 ♂♂ 3 ♀♀, 19.viii.2002, 1 ♀, P. Kment lgt. (PKPC); 26.vi.–14.vii.2008, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov (193), 27.ix.2000, 1 ♀, J. Strejček lgt., P. Kment det. (OBPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 13.vii.1998, 1 ♀, P. Kment lgt., 18.iv.2000, 2 ♂♂, P. Kment & I. Malenovský lgt., 24.vii.2000, 1 ♀, I. Malenovský lgt., 9.–10.ix.2000, 1 ♂ 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 17.ix.2004, 1 ♀, M. Horsák lgt. (MHBC); 8.iv.–12.v.2009, Mt, 2 ♂♂ 2 ♀♀, 2.–25.vi.2009, Mt, 1 ♀, 15.vii.–6.viii.2009, Mt, 2 ♂♂ 2 ♀♀, 14.ix.–20.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 14.ix.–22.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Confined to xerothermic habitats throughout the area, rare. **General distribution:** Holopalaeartic, extending to north-western India. **Biology and habitat:** On *Vincetoxicum hirundinaria* and *Adonis vernalis* in xerothermic localities, mostly dry grassland with scattered shrubs and trees, and along forest edges. Avoiding higher altitudes; generally quite common (STEHLÍK & VAVŘÍNOVÁ 1997b, WACHMANN *et al.* 2007). **Red List status:** –.

Lygaeus simulans Deckert, 1985

Material examined. Štítná nad Vlárí, south-exposed slopes N of the village (74), 10.vii.2006, 1 ♂, O. Konvička lgt. (NMPC). Žitková, Hutě NR (164), 29.v.–19.vi.2007, Mt, 1 ♂, 19.vi.–11.vii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Radějov, Žerotín NM (188), 11.vii.1998, 1 ♂ 1 ♀, P. Kment lgt. (PKBC); 26.vi.–14.vii.2008, Mt, 1 ♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, old cemetery (223), on *Juniperus sabina*, 18.iv.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 1 ♂, P. Kment lgt. (PKPC); 15.vii.–6.viii.2009, Mt, 2 ♂♂ 3 ♀♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Confined to xerothermic habitats throughout the area, rare. **General distribution:** West Eurosiberian and Central Asiatic, extending to Mongolia and northern China. **Biology and habitat:** On *Vincetoxicum hirundinaria*, occurring in similar habitats as the preceding species, although being generally slightly less frequent (STEHLÍK & VAVŘÍNOVÁ 1997b). **Red List status:** –.

Nithecus jacobaeae (Schilling, 1829)

Published records. STEHLÍK & VAVŘÍNOVÁ (1997b): Štítná nad Vlárí (towards Popov), surroundings of Havránkův potok brook (71); Sidonie (6974). KMENT & MALENOVSKÝ (2004): Nedašov, Jalovcová stráň NR (54); Strání, summit of Mt. Velká Javořina (270).

Material examined. Poteč, Ploščiny NR (42), 4.vii.1999, 1 ♂ 2 ♀♀ (mi), P. Kment & I. Malenovský lgt., 24.viii.2002, 1 ♂ 3 ♀♀ (mi), 17.viii.2006, 1 ♂ 1 ♀ (mi), P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♀ (ma), P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Hrušová dolina valley (53), 3.vii.1999, 2 ♂♂ 1 ♀ (mi), P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráň NR (54),

True bugs (Hemiptera: Heteroptera)

3.vii.1999, 1 ♀ (ma) 1 ♀ (br) 8 ♂♂ 8 ♀♀ (mi), P. Kment & I. Malenovský lgt. (MHBC, PKPC); 25.viii.2002, 1 ♀ (br), P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54) and along road to Nedašov (52), 10.ix.1999, 1 ♂ 2 ♀♀ (mi), I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 1 ♀ (ma), P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 1.ix.2004, 1 ♂ (mi), 28.vii.2005, 1 ♀ (mi), I. Malenovský lgt. (PKPC). Lopeník, U Zvonice NM (155), 18.viii.2004, 1 ♀ (mi), P. Kment lgt., 24.vii.2005, 1 ♂ (mi), I. Malenovský lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 3.ix.2005, 1 ♀ (mi), P. Kment lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♀ (ma) 2 ♂♂ (mi), P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 4 ♀♀ (mi), 8.viii.2007, 2 ♂♂ (mi), P. Kment lgt. (PKPC). Výškovec, Pod Hřibovňou NM (176), 24.vii.2005, 5 ♂♂ 1 ♀ (mi), P. Kment lgt. (PKPC). Výškovecké Bošačky, cattle pasture (179), 19.viii.2004, 1 ♂ (mi), 24.vii.2005, 2 ♂♂ (mi), P. Kment lgt. (PKPC). Strání, Javorina NNR, meadow (270), 4.vii.2001, 2 ♂♂ 3 ♀♀ (mi), P. Kment & I. Malenovský lgt., 21.viii.2002, 1 ♂ (mi), P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread in the northern and central parts of the area, restricted to Mt. Velká Javořina in the south. **General distribution:** Eurosiberian. **Biology and habitat:** Polyphagous. Feeding on seeds of Asteraceae (*Senecio*, *Hieracium*), Brassicaceae, Caryophyllaceae, or Rosaceae (*Fragaria*). A mountain species avoiding warm lowlands, although it is considerably euryecious, occurring in peat bogs as well as on dry sunny slopes. Common in suitable habitats (STEHLÍK & VAVŘINOVÁ 1997b). **Red List status:** –.

Nysius ericae ericae (Schilling, 1829)

Published record. STEHLÍK & VAVŘINOVÁ (1997b): Velká nad Veličkou (7171).

Material examined. Výškovecké Bošačky, cattle pasture (179), 24.vii.2005, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 25.v.2000, 2 ♀♀, P. Kment & I. Malenovský lgt., 27.vii.2000, 3 ♀♀, P. Kment lgt., 20.viii.–5.ix.2000, pt. 2 ♀♀, P. Bezděčka lgt. (PKPC). Hrubá Vrbka, village (212), 20.ix.2001, 1 ♀, P. Kment lgt. (PKPC). Javorník, loampit (235), 24.v.2002, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Machová NR (259), 2.–22.viii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Collected in the central and southern parts of the area, quite rare. **General distribution:** Holopalaearctic and Afrotropical. **Biology and habitat:** Polyphagous, feeding on fallen seeds (e.g. of Asteraceae and Brassicaceae). Widely distributed and common, preferring dry places with low and sparse vegetation, including ruderal sites (STEHLÍK & VAVŘINOVÁ 1997b, WACHMANN *et al.* 2007). **Red List status:** –.

Comments. The identification of females is problematical; we used the morphometric characters of pronotum as given by WAGNER (1966).

Nysius helveticus (Herrich-Schaeffer, 1850)

Material examined. Hrubá Vrbka, football ground (211), 8.vii.2000, 1 ♀, P. Kment lgt., 28.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 1 ♂ 1 ♀, 22.ix.2007, 1 ♂, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 13.vii.1998, 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Collected only in the central and southern parts of the area, rare. **General distribution:** Eurosiberian and Central Asiatic. **Biology and habitat:** A polyphagous seed predator. Euryecious, often found on and

under *Potentilla* or *Calluna vulgaris*. Widespread, common (STEHLÍK & VAVŘINOVÁ 1997b, WACHMANN *et al.* 2007). **Red List status:** –.

Nysius senecionis senecionis (Schilling, 1829)

Published record. STEHLÍK & VAVŘINOVÁ (1997b): Slavičín (6973).

Material examined. Nedašov, Jalovcová stráň NR (54), 16.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Žitková, Hutě NR (164), 29.v.–19.vi.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♂, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 1 ♂, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 26.vi.–14.vii.2008, Mt, 1 ♂, 14.vii.–5.viii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Malá Vrbka, Výzkum hill, restored grassland (208), 8.vii.2000, 2 ♀♀, P. Kment & I. Malenovský lgt., 27.vii.2000, 2 ♂♂ 7 ♀♀, I. Malenovský lgt., 16.viii.2000, 1 ♂ 2 ♀♀, 2.v.2001, 1 ♂ 2 ♀♀, P. Kment lgt., 28.vii.2001, 8 ♂♂ 8 ♀♀, I. Malenovský lgt., 20.ix.2001, 1 ♂, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 28.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Hrubá Vrbka, village (212), light trap, 23.vii.2007, 1 ♂, J. Ch. Vávra lgt. (OMOC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 24.viii.–14.ix.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♀, I. Malenovský lgt., 8.viii.2001, 1 ♀, P. Kment lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 12.iv.–8.v.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 20.vii.2002, 1 ♀, I. Malenovský lgt. (PKPC). Strání, Javorina NNR, meadow (270), 7.iv.–13.v.2009, Mt, 1 ♂, 17.ix.–21.x.2009, Mt, 1 ♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, but rare in the north. **General distribution:** Holomediterranean, extending to western and central Europe, Central Asiatic, extending to Mongolia and Inner Mongolia, and Afrotropical. **Biology and habitat:** A polyphagous seed predator, with some preference for Asteraceae (*Senecio sylvaticus*, *S. viscosus*, *Artemisia*, *Matricaria*). Euryecious, although preferring dry habitats. Widespread, common (STEHLÍK & VAVŘINOVÁ 1997b, WACHMANN *et al.* 2007). **Red List status:** –.

Nysius thymi thymi (Wolff, 1804)

Material examined. Hrubá Vrbka, football ground (211), 16.viii.2000, 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected in a single site in the southern part of the area. **General distribution:** Holarctic (Holopalaearctic and Nearctic). **Biology and habitat:** A polyphagous seed predator, preferring dry places with low and sparse vegetation, including ruderal sites. Widespread, common (STEHLÍK & VAVŘINOVÁ 1997b, WACHMANN *et al.* 2007). **Red List status:** –.

Comments. The identification of females is problematical, we used the morphometric characters of pronotum as given by WAGNER (1966).

Orsillus depressus (Mulsant et Rey, 1852)

Published records. KMENT (2006): Nedašov, Jalovcová stráň NR (54); Velká nad Veličkou, village (223).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** Holomediterranean, extending to western and central Europe (not native in northern areas), and Central Asiatic. **Biology and habitat:** An alien species

of a Mediterranean origin. On Cupressaceae: in central Europe almost exclusively on non-native ornamental species (especially *Thuja occidentalis*) in towns and villages (STEHLÍK & VAVŘINOVÁ 1997b, STEHLÍK 1998a). The single male collected on *Juniperus communis* in Jalovcová stráň NR (12.viii.2006) is the only record from a natural habitat in the Czech Republic (KMENT 2006). **Red List status:** –.

***Ortholomus punctipennis* (Herrich-Schaeffer, 1838)**

Published record. STEHLÍK & VAVŘINOVÁ (1997b): Boršice [u Blatnice] (7071).

Material examined. Nedašov, Jalovcová stráň NR (54), 1.ix.2004, 1 ♂, I. Malenovský lgt., 28.vii.2005, 2 ♀♀, I. Malenovský lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 2 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Hluk, Kobylí hlava NM (101), 24.viii.2002, 1 ♂, I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR (117), 10.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt., 13.viii.2001, 2 ♂♂, P. Kment lgt., 21.vii.2002, 2 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 18.viii.2004, 1 ♂, P. Kment lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♂, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 1 ♂ 1 ♀, 8.viii.2007, 2 ♂♂ 1 ♀, 22.ix.2007, 1 ♀, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 8.vii.2000, 1 ♀, 16.viii.2000, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Suchovské Mlýny, sheep pasture (226), 27.vii.2005, 4 ♂♂, I. Malenovský lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 1.ix.2005, 1 ♂, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area.

General distribution: Eurosiberian, extending to Anatolia and Cyprus, and Central Asiatic. **Biology and habitat:** A polyphagous seed predator. Often found on and under *Potentilla*, preferring warm and sunny habitats, including ruderal vegetation. Widespread (avoiding mountain areas) and common (STEHLÍK & VAVŘINOVÁ 1997b, WACHMANN *et al.* 2007). **Red List status:** –.

***Spilostethus saxatilis* (Scopoli, 1763)**

Published records. STEHLÍK & VAVŘINOVÁ (1997b): Luhačovice, spa (6872); Štítná nad Vláří (towards Popov), surroundings of Havránkův potok brook (71); Bylnice (6974); Kněždub, Čertoryje NNR (202); Javorník, Výzkum [hill] (258); Nová Lhota, Fojtičky mill [= Fojtické Mlýny] (245); Velká nad Veličkou (towards Javorník) (240). KMENT (2001): Kněždub, Čertoryje NNR (202). KMENT & MALENOVSKÝ (2008): Nedašov, Jalovcová stráň NR (54); Kněždub, Čertoryje NNR (202); Strání, Záhumenice NM (266).

Material examined. Petrůvka, U Petrůvky NM (14), 6.viii.1999, 3 ♂♂ (1 ♂ freshly hatched), P. Kment lgt. (PKPC); 3.–23.vi.2008, Mt, 1 ♀, 16.vii.–4.viii.2008, Mt, 1 ♀, 25.viii.–23.ix.2008, Mt, 1 ♂ 3 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 19.v.1999, 1 ♂, P. Kment & I. Malenovský lgt., 9.ix.1999, 1 ♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 1.x.2007, 1 ♀, O. Konvička lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 1.x.2007, 1 ♀, O. Konvička lgt. (PKPC). Poteč, Ploštiny NR (42), 13.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Brumov, Uhličky (44), 1.ix.2004, 1 ♂ 2 ♀♀, I. Malenovský lgt., 4.v.–3.vi.2005, pt, 1 ♂, K. Resl lgt., 28.vii.2005, 1 ♂, P. Kment lgt., 6.viii.–7.ix.2005, pt, 1 ♀, K. Resl lgt. 4.ix.2005, 13 ♂♂ 7 ♀♀, P. Kment lgt. (PKPC). Brumov, Uhličky and Kloboucká street (44, 76), 8.v.2004, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., 14.viii.2006, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, meadow (48), 19.v.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., 23.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráň NR (54), 20.v.1999, 3 ♀♀, 3.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt., 25.viii.2002, 1 ♂, P. Kment lgt., 30.vi.2004, 2 ♂♂ 6 ♀♀, 1.ix.2004, 7 ♂♂ 8 ♀♀, 5.x.2004, 1 ♂, 28.v.2005, 9 ♂♂ 2 ♀♀, 6.ix.2005, 1 ♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráň NR (54) and along road to Nedašov (52), 10.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (MUBC). Nedašov, Kaňoury NM (55), 20.v.1999, 1 ♂, 3.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt.,

17.vi.2006, 1 ♂ 2 ♀♀, I. Malenovský lgt., 12.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt., 16.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Nedašov, meadow E of Jalovcová stráň NR (59), 30.vi.2004, 3 ♂♂ 6 ♀♀, 6.ix.2005, 2 ♀♀ I. Malenovský lgt. (PKPC). Nedašova Lhota env. (60), 26.vi.1998, 1 ♀, V. Vrabc lgt. (VVKC). Štítina nad Vlárí, south-exposed slopes N of the village (74), 22.v.2006, 1 ♀, O. Konvička lgt. (NMPC). Brumov, Kloboucká street (76), 30.vi.2004, 5 ♂♂ 5 ♀♀, 28.v.2005, 1 ♂ 2 ♀♀, 5.x.2004, 1 ♂, I. Malenovský lgt., 4.ix.2005, 1 ♀, P. Kment lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♂ 1 ♀, 18.viii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Bylnice, between Vlára river and Lazy NR (81), 21.v.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 1 ♂, P. Kment & M. Omesová lgt., 12.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Na Kopanicách, meadow (90), 20.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 30.vi.2004, 1 ♂ 1 ♀, 1.ix.2004, 4 ♂♂ 2 ♀♀ 13 L, 5.x.2004, 2 ♂♂ 3 ♀♀, 28.v.2005, 4 ♂♂ 6 ♀♀, 6.ix.2005, 11 ♂♂ 15 ♀♀, I. Malenovský lgt. (PKPC). Hluk, Babi hora NM (102), 24.viii.2002, 1 ♀, I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 11.vii.2009, 5 ♂♂ 3 ♀♀, 16.viii.2009, many ♂♂ and ♀♀, P. Baňar lgt. et det. (MMBC). Suchov, Kazivec brook valley (116), 9.ix.1998, 2 ♂♂ 2 ♀♀, I. Malenovský & M. Omesová lgt. (PKPC). Horní Němčí, Drahy NR (117), 15.v.1998, 1 ♀, P. Kment lgt., 10.ix.1998, 3 ♀♀, I. Malenovský & M. Omesová lgt., 30.vi.2001, 7 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt., 13.viii.2001, 1 ♀ 8 L5 2 L4, 21.ix.2001, 1 ♂ 4 ♀♀, P. Kment lgt., 10.ix.2002, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Březová, Cestiska NM (136), 2.x.2007, 1 ♂, O. Konvička lgt. (NMPC). Strání, Klanečnice brook valley between village and Žabka reservoir (143), 16.v.1998, 1 ♂, 10.vii.1998, 1 ♂, P. Kment lgt., 10.ix.1998, 1 ♂ 2 ♀♀, I. Malenovský & M. Omesová lgt. (PKPC). Žitková (163), 11.vi.1999, 1 ♂ 3 ♀♀, K. Hradil lgt. et det. (KHMC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 1 ♀, 12.ix.–2.x.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 22.ix.2007, 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 22.ix.2007, 1 ♀, P. Kment lgt. (PKPC). Vápenice, V Krátkých (170), 6.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Starý Hrozenkov, village (172), 6.vii.2001, 1 ♂, P. Kment lgt. (PKPC). Výskovec, Pod Hřibovnou NM (176), 28.vi.2004, 2 ♂♂ 2 ♀♀, I. Malenovský lgt., 25.ix.2004, 3 ♂♂ 1 ♀, 24.vii.2005, 1 ♀, P. Kment lgt., 3.ix.2005, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Výskovecké Bošačky, cattle pasture (179), 27.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Radějov, Žerotín NM (188), 19.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Kněždubský háj forest (197), 20.ix.2001, 1 ♀, M. Omesová lgt. (MUBC). Tvarožná Lhota, valley of Járkovec brook (201), 14.vii.1998, 1 spec., P. Kment observ. Kněždub, Čertoryje NNR (202), 8.ix.2000, 9 ♂♂ 4 ♀♀, I. Malenovský lgt., 22.vi.2001, 2 ♂♂ 8 ♀♀, 20.ix.2001, 7 ♂♂ 4 ♀♀, P. Kment lgt., 8.v.2002, 2 ♂♂ 2 ♀♀, I. Malenovský lgt., 17.viii.2002, 15 ♂♂ 11 ♀♀ 31 L, 4.x.2002, 5 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 7.iv.–5.v.2010, Mt, 1 ♂, 12.viii.–9.ix.2010, Mt, 1 ♂, 9.ix.–22.x.2010, Mt, 1 ♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, Výzkum hill, 200 m NW of the top (209), 13.ix.2004, 1 spec., M. Horsák lgt. (MHBC). Hrubá Vrbka, football ground (211), 16.viii.2000, 1 ♀, P. Kment lgt. (PKPC). Radějov, Měsíční údolí valley (214), 8.ix.1998, 1 ♀, I. Malenovský & M. Omesová lgt. (PKPC); 16.viii.2009, along road to Radějov, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.v.1998, on *Taraxacum* sp., 1 ♂ 1 ♀ in copula, P. Kment observ., 13.vii.1998, 1 ♀, P. Kment lgt., 18.iv.2000, several specimens (2 ♂♂ 2 ♀♀ in copula; 1 ♂ in PKPC), P. Kment & I. Malenovský observ., 19.vi.2000, 1 ♀, 18.viii.2000, 1 ♂ 3 ♀♀, P. Kment lgt., 9.–10.ix.2000, 5 ♂♂ 9 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 17.ix.2004, 1 ♀, M. Horsák lgt. (MHBC); 30.vi.–1.vii.2008, 1 ♂, Z. Malinka lgt. (ZMOC); 24.viii.–14.ix.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 1.ix.2005, 3 ♂♂, I. Malenovský lgt. (PKPC). Suchovské Mlýny, meadow (227), 23.vi.2004, 3 ♂♂ 3 ♀♀, 1.x.2004, 7 ♂♂ 3 ♀♀, 26.v.2005, 1 ♂ 2 ♀♀, 27.vii.2005, 2 ♂♂, 1.ix.2005, 1 ♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Trnovský Mlýn, meadow (229), 23.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 6.v.2000, 1 ♂ 2 ♀♀, 19.vi.2000, 1 ♀, I. Malenovský lgt., 18.viii.2000, 1 ♂ 4 ♀♀ (hundreds of spec. observed), P. Kment lgt., 10.ix.2000, 13 ♂♂ 8 ♀♀, 3.v.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 6.iv.–12.v.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, loampit (235), 10.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt., 24.v.2002, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Nad Vápenkou NM (236), 7.ix.2002, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 6.iv.–12.v.2009, Mt, 1 ♀, 24.viii.–14.ix.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 8.viii.2001, 1 ♀, P. Kment & I. Malenovský lgt., 23.ix.2001, 4 ♂♂ 4 ♀♀, P. Kment lgt., 7.ix.2002, 7 ♂♂ 2 ♀♀, 2.ix.2004, 16 ♂♂ 9 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 3.v.2001, 3 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt., 29.vi.2001, 1 ♂ 1 ♀, 23.ix.2001, 2 ♂♂ 2 ♀♀ 1 L5, P. Kment lgt., 24.v.2002, 1 ♀, P. Kment & I. Malenovský lgt., 17.vii.2002, 1 ♀, 7.ix.2002, 5 ♂♂ 9 ♀♀, 23.vi.2004, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Vápenky,

True bugs (Hemiptera: Heteroptera)

Porážky NNR (247), 9.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt., 24.viii.1999, 1 ♂, M. Fikáček lgt. (PKPC). Javorník, Machová NR (259), 14.v.1998, 1 ♀, 9.vii.1998, 1 ♀, P. Kment lgt., 8.v.2000, 1 ♀, I. Malenovský lgt. (PKPC); 12.iv.–8.v.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 2.–22.viii.2007, 1 ♂ 1 ♀ 2 L, 22.viii.–10.ix.2007, 3 ♂♂, 10.ix.–3.x.2007, 6 ♂♂ 7 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 9.viii.2001, 1 L4, P. Kment lgt., 23.v.2002, 1 ♀, I. Malenovský lgt. (PKPC). Strání, Záhumenice NM (266), 24.v.2001, 1 ♂, I. Malenovský lgt., 9.viii.2001, 2 ♂♂ 6 L5 3 L4, P. Kment lgt., 21.ix.2001, 10 ♂♂ 11 ♀♀, I. Malenovský lgt., 23.v.2002, 4 ♂♂ 8 ♀♀, P. Kment lgt., 12.ix.2002, 2 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Holomediterranean, extending to central Europe, and Central Asiatic, extending to northern India. **Biology and habitat:** A polyphagous phytophage. Euryecious, more frequent in humid and mesic localities in lowlands, while it prefers warmer and drier habitats at higher altitudes. Common (STEHLÍK & VAVŘINOVÁ 1997b, WACHMANN *et al.* 2007). **Red List status:** –.

Tropidothorax leucopterus (Goeze, 1778)

(CR)

Published records. KMENT *et al.* (2003): Radějov, Lučina [= Tvarožná Lhota, Horní Mlýn, Lučina reservoir] (199). KMENT *et al.* (2009): Radějov, “Horní hory” vineyard (7169), Radějov, “Žebrák” vineyard (7169).

Material examined. Velká nad Veličkou, Zahrady pod Hájem NNR (225), 15.vii.–6.viii.2009, Mt, 1 ♂, 14.ix.–20.x.2009, Mt, 2 ♀♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, confined to the most xerothermic sites in the southern part of the area. **General distribution:** Holomediterranean, extending to central Europe, and Central Asiatic, extending to northern India. **Biology and habitat:** On Asclepiadoidea (Apocynaceae), in the Czech Republic on *Vincetoxicum hirsutum* and the non-indigenous *Asclepias syriaca* (KMENT *et al.* 2009a). **Red List status:** Critically endangered.

Comments. A xerothermic species, considered extinct in Moravia for nearly a century (STEHLÍK & VAVŘINOVÁ 1997b). It was rediscovered in 1990's and has spread in recent years, with established populations as far north as central Bohemia (KMENT *et al.* 2003, 2009a). In the light of recent findings, its Red List status as a critically endangered species (KMENT & VILÍMOVÁ 2006) is rendered obsolete.

Family CYMIDAE

Cymus aurescens Distant, 1883

Published records. STEHLÍK & VAVŘINOVÁ (1997b): Brumov, Holý vrch hill and Na Tatrách (79); Sidonie, surrounding of the Vlárka brook and valley above the colony (92); Horní Němčí, Hornoněmčanský háj forest [= Drahy NR env.] (118). KMENT (2001): Kněždub, Čertoryje NNR (202). Record from Nedašova Lhota, swampy meadow 4.5 km NE of the village by STEHLÍK & VAVŘINOVÁ (1997b) concerns the area of Slovakia.

Material examined. Valašské Klobouky, Suchý vrch hill (24), 21.v.1999, 1 ♂, M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 2 ♀♀, M. Horsák & P. Kment lgt., 9.ix.1999, 1 ♂, I. Malenovský lgt. (PKPC). Valašské Klobouky, Brumovská street (30), 19.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 2 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 2.vii.1999, 1 ♂, P. Kment & I. Malenovský

lgt., 10.ix.1999, 1 ♂ 2 ♀♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Valašské Klobouky, Na Nivách (34), 9.ix.1999, 1 ♂ 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 16.vi.2002, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 9.ix.1999, 1 ♂, I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., 14.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Nedašov, Hrušová dolina valley (53), 3.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 30.vi.2004, 2 ♀♀, I. Malenovský lgt. (PKPC). Nedašov, meadow E of Jalovcová stráž NR (59), 30.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Bylnice, between Vlára river and Lazy NR (81), 21.v.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 7 ♂♂ 4 ♀♀, P. Kment & M. Omesová lgt. (PKPC). Suchov, Kazivec brook valley (116), 15.v.1998, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♀, P. Kment & I. Malenovský lgt., 21.ix.2001, 1 ♂, P. Kment lgt. (PKPC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 1 ♂, 9.–29.v.2007, Mt, 2 ♀♀, 29.v.–19.vi.2007, Mt, 1 ♂, 19.vi.–11.vii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Lozky (168), 29.vi.2006, 1 ♂ 1 ♀, J. Ježek lgt. (NMPC). Vápenice, V Krátkých (170), 6.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Vyškovec, Pod Hřibovňou NM (176), 28.vi.2004, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Machová NR (259), 14.v.1998, 1 ♂, P. Kment lgt., 8.v.2000, 2 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC); 8.–28.v.2007, Mt, 2 ♀♀, 28.v.–18.vi.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 12.iv.–8.v.2007, Mt, 2 ♀♀, 8.–28.v.2007, Mt, 1 ♂ 3 ♀♀, 28.v.–18.vi.2007, Mt, 4 ♂♂ 3 ♀♀, 18.vi.–9.vii.2007, Mt, 13 ♂♂ 12 ♀♀, 2.–22.viii.2007, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 23.v.2002, 1 ♂ 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area, although less frequent in the southern part. **General distribution:** Eurosiberian and Central Asiatic. **Biology and habitat:** On *Scirpus sylvaticus*, less frequently on *Schoenoplectus* and *Juncus inflexus* (LEDVINKA 1971, WACHMANN *et al.* 2007). Hygrophilous (in peat bogs, peaty and wet meadows, environs of streams and ponds, swamps, forest clearings), rarely collected in dry habitats. Common (STEHLÍK & VAVŘINOVÁ 1997b, WACHMANN *et al.* 2007). **Red List status:** –.

Cymus clavicularis (Fallén, 1807)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♂ 4 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Strání, Obecnice hill, at transmission tower (144), 24.v.2001, 1 ♀, I. Malenovský lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 1 ♂, 8.viii.2007, 1 ♀, P. Kment lgt. (PKPC). Vyškovec, Ve Vlčí NR (177), 22.v.2005, 1 ♂, I. Malenovský lgt. (PKPC). Kněždub, Kněždubský háj forest (197), 28.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 5.v.2000, 1 ♂, I. Malenovský lgt., 2.v.2001, 2 ♂♂ 5 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 24.vii.2000, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Jazevěč NNR (232), 6.v.2000, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 3.v.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Strání, Javorina NNR, meadow (270), 6.–24.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread in the southern part of the area, not collected elsewhere. **General distribution:** Holopalaeartic (except the Far East and China). **Biology and habitat:** On *Juncus* (*J. bufonius*, *J. compressus*, *J. squarrosus*), rarely on *Carex* (LEDVINKA 1971, WACHMANN *et al.* 2007). Euryecious and euryhygric, found in swampy meadows, but also on field roads and forest tracks, as well as in other places where early succession stages of vegetation render the host plants abundant. Not rare (LEDVINKA 1971, STEHLÍK & VAVŘINOVÁ 1997b). **Red List status:** –.

Cymus glandicolor Hahn, 1832

Published records. STEHLÍK & VAVŘINOVÁ (1997b): Nedašova Lhota (6874); Brumov (6974); Sidonie (6974); Horní Němčí (7071); Petrov (7169); Javorník (7171); Velká nad Veličkou (towards Javorník) (240). KMENT (2001): Kněždub, Čertoryje NNR (202). KMENT & MALENOVSKÝ (2008): Nedašov, Jalovcová stráž NR (54).

Material examined. Valašské Klobouky, Brumovka brook valley (29), 19.v.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Brumovská street (30), 19.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Poteč, Ploštiny NR (42), 17.viii.2006, 1 ♂ 8 ♀♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 16.vi.2002, 1 ♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Hrušová dolina valley (53), 20.v.1999, 1 ♀, 3.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 20.v.1999, 13 ♂♂ 11 ♀♀, 3.vii.1999, 10 ♂♂ 9 ♀♀ (7 ♂♂ 6 ♀♀ freshly hatched), P. Kment & I. Malenovský lgt., 25.viii.2002, 1 ♂ 1 ♀, P. Kment lgt., 30.vi.2004, 5 ♂♂ 2 ♀♀, 28.v.2005, 3 ♂♂ 1 ♀, 28.vii.2005, 4 ♂♂ 4 ♀♀, 16.vi.2006, 4 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54) and along road to Nedašov (52), 10.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Kaňoury NM (55), 20.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, meadow E of Jalovcová stráž NR (59), 30.vi.2004, 2 ♂♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Bylnice, between Vlára river and Lazy NR (81), 21.v.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 1 ♀ (freshly hatched), P. Kment & M. Omesová lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 1.ix.2004, 1 ♂, I. Malenovský lgt. (PKPC). Svatý Štěpán, Chladný vrch NM (93), 8.ix.–23.x.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Lipov, Pešunk (100), 27.vi.2008, 1 ♀ (freshly hatched), Z. Malinka lgt. (ZMOC). Blatnička, Milejovské louky meadows (104), 24.v.2009, 2 ♂♂ 1 ♀, P. Baňar lgt. et det. (MMBC). Louka, Hloží NR (106), 24.iv.1999, 2 ♂♂ 6 ♀♀, M. Horsák lgt. (MHBC, MUBC, PKPC). Suchov, Kazivec brook valley (116), 15.v.1998, 2 ♀♀, P. Kment lgt. (PKPC). Horní Němčí, Drahy NR (117), 15.v.1998, 1 ♂ 4 ♀♀, P. Kment lgt., 30.vi.2001, 6 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt., 23.v.2002, 5 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Komňa, Lom Rasová NM (128), 5.vii.2001, 8 ♂♂ 4 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Březová, Kalábová NM (137), 4.vii.2001, 2 ♂♂ 4 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Březová, spring fen ca. 600 m SE below Studený vrch hill (138), 5.vii.2001, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 8.v.2004, 9 ♂♂ 5 ♀♀, I. Malenovský lgt. (PKPC). Lopeník, Mikulčín vrch hill (160), spruce forest margin, 24.vii.2005, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Strání, Žabka reservoir (148), muddy bank at inflow, 16.v.1998, 2 ♀♀, 10.vii.1998, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Žitková (163), 11.vi.1999, 2 ♂♂, K. Hradil lgt. et det. (KHMC). Žitková, Hutě NR (164), 11.iv.2007, 1 ♂, O. Konvička lgt., 11.iv.–9.v.2007, Mt, 2 ♂♂ 4 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 4 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Vápenice, V Krátkých (170), 6.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Kněždub, Kněždubský háj forest (197), 8.vii.2000, 1 ♀, P. Kment lgt., 28.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 17.iv.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Radějov, Kútky NR (217), 11.vii.1998, 1 ♂, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.v.1998, 5 ♂♂ 4 ♀♀, 13.vii.1998, 1 ♀, P. Kment lgt. (PKPC); 18.iv.2000, 5 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt. (MUBC, PKPC); 19.vi.2000, 5 ♂♂ 4 ♀♀, P. Kment lgt., 24.vii.2000, 2 ♀♀, I. Malenovský lgt., 18.viii.2000, 1 ♂ 2 ♀♀, P. Kment lgt., 9.–10.ix.2000, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 8.iv.–12.v.2009, Mt, 1 ♂ 1 ♀, 2.–25.vi.2009, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Trnovský Mlýn, sheep pasture (228), 16.viii.2004, spring fen, 1 ♂, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 6.v.2000, 4 ♂♂ 11 ♀♀, 19.vi.2000, 7 ♂♂ 1 ♀ (1 ♀ freshly hatched), I. Malenovský lgt. (PKPC). Javorník, towards Suchovské Mlýny, Velička river valley (233), 6.v.2000, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Javorník, loampit (235), 24.v.2002, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, railway station (237), 9.vii.1998, several spec., P. Kment observ. Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 6.iv.–12.v.2009, Mt, 1 ♂ 1 ♀, 12.v.–2.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 14.v.1998, 1 ♀, P. Kment lgt., 9.vii.1998, 1 ♂ 2 ♀♀, P. Kment lgt., 8.v.2000, 6 ♂♂ 4 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 12.iv.–8.v.2007, Mt, 2 ♂♂ 3 ♀♀, 8.–28.v.2007, Mt, 3 ♂♂ 2 ♀♀, 28.v.–18.vi.2007, Mt, 5 ♂♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 23.v.2002, 1 ♀, P. Kment lgt. (PKPC). Strání, Javorina NNR, meadow (270), 7.iv.–13.v.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Eurosiberian and Central Asiatic. **Biology and habitat:** On

Carex, rarely on *Juncus*, *Luzula* and *Scirpus sylvaticus* (LEDVINKA 1971, WACHMANN *et al.* 2007). Mostly hygrophilous, but also occurring in dry habitats with *Carex*. Common (STEHLÍK & VAVŘÍNOVÁ 1997b). **Red List status:** –.

***Cymus melanocephalus* Fieber, 1861**

Published records. STEHLÍK & VAVŘÍNOVÁ (1997b): Kněždub, Čertoryje NNR (202); Velká nad Veličkou (towards Javorník) (240). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 13.v.–3.vi.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 19.v.1999, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt., 30.vi.1999, 4 ♂♂ 4 ♀♀, M. Horsák & P. Kment lgt., 9.ix.1999, 3 ♂♂ 6 ♀♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Na Nivách (34), 9.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Poteč, Ploštiny NR (42), 17.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Návojná, Vrchy hill (45), 12.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráň NR (54), 20.v.1999, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt., 30.vi.2004, 1 ♀, 1.ix.2004, 2 ♀♀, I. Malenovský lgt., 12.vii.2006, 2 ♀♀, P. Kment & I. Malenovský lgt., 16.viii.2006, 3 ♂♂ 3 ♀♀, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráň NR (54) and along road to Nedašov (52), 10.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Bylnice, railway station environs (83), 11.ix.1999, 2 ♀♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 28.v.2005, 2 ♀♀, I. Malenovský lgt. (PKPC). Louka, Hloží NR (106), 24.iv.1999, 1 ♂, M. Horsák lgt. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♀, P. Kment & I. Malenovský lgt., 13.viii.2001, 2 ♀♀, 21.ix.2001, 1 ♂, P. Kment lgt. (PKPC). Březová, Kalábová NM (137), 4.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Lopeník, U Zvonice NM (155), 18.viii.2004, 1 ♀, P. Kment lgt., 21.v.2005, 1 ♀, I. Malenovský lgt. (PKPC). Žitková (163), 11.vi.1999, 2 ♀♀, K. Hradil lgt. et det. (KHMC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♂ 3 ♀♀, 8.viii.2007, 1 ♂ 1 ♀, 22.ix.2007, 1 ♂, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 2 ♂♂ 4 ♀♀, 8.viii.2007, 2 ♂♂ 4 ♀♀, P. Kment lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), U Pomníčku, spring fen, 18.v.2002, 1 ♂, I. Malenovský lgt. (PKPC). Radějov, Měsíční údolí valley (214), 8.ix.1998, 1 ♀, I. Malenovský & M. Omesová lgt. (PKPC). Radějov, Kútky NR (217), 8.ix.1998, 1 ♂ 1 ♀, I. Malenovský & M. Omesová lgt. (PKPC); 4.–26.vi.2008, Mt, 1 ♂, 26.vi.–15.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Trnovský Mlýn, sheep pasture (228), 16.viii.2004, spring fen, 1 ♀, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 6.v.2000, 2 ♂♂ 2 ♀♀, 19.vi.2000, 2 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Javorník, loampit (235), 10.ix.1998, 1 ♂ 2 ♀♀, I. Malenovský & M. Omesová lgt., 24.v.2002, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 6.iv.–12.v.2009, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 8.v.2000, 1 ♀, I. Malenovský lgt. (PKPC). Strání, Mechnáčky NM (264), pool, 2.vi.2007, 1 ♂ 2 ♀♀, P. Komzák lgt. (PKBC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Holomediterranean, extending to western and central Europe, and Central Asiatic. **Biology and habitat:** On *Juncus effusus*, *J. conglomeratus*, *J. gerardii*, and *J. inflexus*, rarely on Cyperaceae (LEDVINKA 1971, WACHMANN *et al.* 2007). Mostly hygrophilous, but also occurring in dry habitats with *Juncus*. Common (STEHLÍK & VAVŘÍNOVÁ 1997b). **Red List status:** –.

Family BLISSIDAE

***Dimorphopterus spinolae* (Signoret, 1857)**

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Blatnička, Milejovské louky meadows (104), 16.viii.2009, 15 ♂♂ 13 ♀♀ (mi), P. Baňar lgt. et det. (MMBC). Malá Vrbka, Výzkum hill, restored grassland (208), 18.v.2002, 1 ♀ (sma), I. Malenovský

True bugs (Hemiptera: Heteroptera)

Igt. (PKPC). Radějov, Měsíční údolí valley (214), 8.ix.1998, 1 ♀ (mi), I. Malenovský & M. Omesová Igt., 20.viii.2002, 1 ♂ (sma), P. Kment Igt. (PKPC). Radějov, Mandát brook valley below Kútky NR (218), 14.v.–4.vi.2008, Mt, 1 ♂ (ma) 1 ♀ (sma), P. Chvojka, J. Ježek & J. Macek Igt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 8.iv.–12.v.2009, Mt, 1 ♂ (ma), P. Chvojka, J. Ježek & M. Macek Igt. (NMPC). Suchovské Mlýny, sheep pasture (226), 26.v.2005, 1 ♂ (mi), I. Malenovský Igt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread in the southern part of the area, not collected elsewhere. **General distribution:** Eurosiberian and Central Asiatic. **Biology and habitat:** On *Calamagrostis epigejos*, less frequently on other Poaceae. In warm, dry to mesic open places with stands of the host plant. Quite rare (STEHLÍK & VAVŘINOVÁ 1997b, WACHMANN *et al.* 2007). **Red List status:** –.

Ischnodemus sabuleti (Fallén, 1826)

Material examined. Lopeník, Lopenické sedlo saddle, cattle pasture (159), 21.v.2005, 1 ♀ (sma), I. Malenovský Igt. (PKPC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 1 ♂ (ma), 9.–29.v.2007, Mt, 2 ♀♀ (sma), P. Chvojka, J. Ježek & J. Macek Igt. (PKPC). Výškovecké Bošačky, cattle pasture (179), 21.v.2005, 1 ♀ (sma), I. Malenovský Igt. (PKPC). Výškovecké Bošačky, meadow and orchard (180), 21.v.2005, 1 ♂ (sma), I. Malenovský Igt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 5.v.2000, 1 ♂ (ma), 18.v.2002, 1 ♂ (sma), I. Malenovský Igt. (PKPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 28.v.–18.vi.2007, Mt, 1 ♀ (sma), P. Chvojka, J. Ježek & J. Macek Igt. (NMPC). Javorník, towards Vrbovce, Teplica brook (262), 4.v.2006, 1 ♀ (mi), P. Komzák Igt. (PKBC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread in the central and southern parts of the area, missing in the north. **General distribution:** Holopalaeartic (except the Far East and China). **Biology and habitat:** On *Glyceria maxima*, less frequently on other grasses (*Glyceria*, *Phalaris*, *Phragmites*, etc.) and *Typha*. Hygrophilous, inhabiting the shores of both still and running water. Common, often occurring in masses (STEHLÍK & VAVŘINOVÁ 1997b, WACHMANN *et al.* 2007). **Red List status:** –.

Family GEOCORIDAE

Geocoris (Geocoris) dispar (Waga, 1839)

Material examined. Nedašov, Jalovcová stráž NR (54), 3.vii.1999, 1 ♂ (br), P. Kment & I. Malenovský Igt. (PKPC). Brumov, Kloboucká street (76), 2.ix.2004, 1 ♂ (br), I. Malenovský Igt. (PKPC). Bylnice, railway station environs (83), 11.ix.1999, 1 ♀ (br), I. Malenovský & T. Vymyslický Igt. (PKPC). Nedašov, Pod Cigánem NM (91), 28.vii.2005, 1 ♂ (br), I. Malenovský Igt. (PKPC). Horní Němčí, Drahy NR (117), 21.vii.2002, 1 ♂ (br), I. Malenovský Igt. (PKPC). Výškovecké Bošačky, meadow and orchard (180), 3.ix.2004, 1 ♂ (br), I. Malenovský Igt. (PKPC). Kněždub, Čertoryje NNR (202), U Pomníčku, 27.vi.2002, 1 ♂ (br), I. Malenovský Igt., 1 ♂ (br), P. Kment Igt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 16.viii.2000, 1 ♂ (br), P. Kment Igt. (PKPC). Hrubá Vrbka, football ground (211), 28.vii.2001, 1 ♀ (br), P. Kment & I. Malenovský Igt., 16.viii.2000, 1 ♂ (br) 2 ♀♀ (ma), P. Kment Igt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 9.–10.ix.2000, 1 ♂ (br), P. Kment & I. Malenovský Igt. (PKPC). Trnovský Mlýn, meadow (229), 1.ix.2005, 1 ♂ (br), I. Malenovský Igt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** West Eurosiberian. **Biology and habitat:** Zoophagous, although partly phytophagous. Epigeic and euryecious, in xerothermic as well as moist habitats (e.g. light forests, heathland, wet meadows, xerothermic grassland). Not rare (STEHLÍK & VAVŘINOVÁ 1997b, WACHMANN *et al.* 2007). **Red List status:** –.

Family ARTHENEIDAE

Chilacis typhae (Perris, 1857)

Material examined. Valašské Klobouky, U Rybníků (38), on *Typha* sp., 17.viii.2006, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected in a single swampy site in the northern part of the area. **General distribution:** European, extending to Transcaucasia, and Central Asiatic; introduced to North America. **Biology and habitat:** On *Typha angustifolia* and *T. latifolia*, feeding on seeds. On shores of ponds, in swamps, peat bogs, salt marshes and other habitats with its host plants, from lowlands to mountains. Widespread, not rare (STEHLÍK & VAVŘINOVÁ 1997b, WACHMANN *et al.* 2007). **Red List status:** –.

Family OXYCARENIDAE

Macroplox preysleri (Fieber, 1837)

Published record. STEHLÍK & VAVŘINOVÁ (1997b): Javorník, Výzkum [hill] (258).

Material examined. Nedašov, Jalovcová stráž NR (54), 3.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt., 30.vi.2004, 1 ♂, 1.ix.2004, 1 ♂, 5.x.2004, 1 ♀, 28.v.2005, 1 ♀, 28.vii.2005, 1 ♂, I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR (117), 10.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt., 21.ix.2001, 1 ♂ 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area on xerothermic sites, rare. **General distribution:** West Eurosiberian, extending to Anatolia. **Biology and habitat:** On *Helianthemum* in xerothermic localities (dry grassland, pastures, species-rich meadows). Not rare (STEHLÍK & VAVŘINOVÁ 1997b, WACHMANN *et al.* 2007). **Red List status:** –.

Metopoplax origani (Kolenati, 1845)

Published record. STEHLÍK & VAVŘINOVÁ (1997b): Slavičín, 200 m W of the village (69).

Material examined. Nedašov, meadow E of Jalovcová stráž NR (59), 30.vi.2004, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 24.v.2009, 11.vii.2009, 2 ♂♂, P. Baňář lgt. et det. (MMBC). Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Lopeník, U Zvonice NM (155), 27.vi.2004, 1 ♀, 21.v.2005, 1 ♂, I. Malenovský lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 4 ♂♂ 5 ♀♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 5.v.2000, 1 ♀, 27.vii.2000, 1 ♂, I. Malenovský lgt., 22.vi.2001, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 24.viii.–14.ix.2009, Mt, 2 ♂♂ 1 ♀, 14.ix.–20.x.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, meadow (227), 23.vi.2004, 2 ♀♀, I. Malenovský lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 26.v.2005, 1 ♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 24.viii.–14.ix.2009, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 23.vi.2004, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Machová NR (259), 2.–22.viii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 24.v.2001, 2 ♂♂, I. Malenovský lgt. (PKPC). Strání, Záhumenice NM (266), 24.v.2001, 1 ♀, I. Malenovský lgt. (PKPC). Strání, Javorina NNR, forest (269), under bark of fallen stem, 3.vii.2001, 1 ♂ (torso), M. Horsák & P. Kment lgt. (PKPC). Strání, Javorina NNR, meadow (270), 3.–23.vi.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** West Eurosiberian and Central Asiatic. **Biology and habitat:** On

Asteraceae, especially *Tripleurospermum inodorum*, in various dry localities from lowlands to mountains, often on ruderal vegetation. Common (STEHLÍK & VAVŘÍNOVÁ 1997b, WACHMANN *et al.* 2007). **Red List status:** –.

Oxycarenus (Euoxycarenus) pallens (Herrich-Schaeffer, 1850)

Published records. KMENT *et al.* (2006): Bylnice, Kloboucká, meadows [= Brumov, Uhličky] (44); Bošačky, U Kafků, cattle pasture [= Vyškovecké Bošačky, cattle pasture] (179).

Material examined. Blatnička, Milejovské louky meadows (104), 24.v.2009, 4 ♂♂ 6 ♀♀, 11.vii.2009, 4 ♂♂ 2 ♀♀, 16.viii.2009, 3 ♂♂ 11 ♀♀, P. Baňář lgt. et det. (MMBC). Radějov, Žerotín NM (188), 4.–26.vi.2008, Mt, 1 ♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** Holopalaearctic (except northern areas), extending to India and Sudan. **Biology and habitat:** On Asteraceae, especially *Centaurea*, in open xerothermic habitats, including ruderal sites (STEHLÍK & VAVŘÍNOVÁ 1997b). **Red List status:** –.

Comments. Common in the Pannonicum in southern Moravia, spreading northwards (see STEHLÍK & VAVŘÍNOVÁ 1997b, KRIST & KMENT 2006) and even recently found in southern Bohemia (MÁČA 2006).

Oxycarenus (Oxycarenus) lavaterae (Fabricius, 1787)

Published record. KMENT *et al.* (2006): Petrov, village (184).

Material examined. Luhačovice, building of the Bílé Karpaty PLA Management (2), 20.viii.2008, 1 ♂, O. Konvička lgt. (OKZC). Radějov, Žerotín NM (188), 26.vi.–14.vii.2008, Mt, 1 ♀, 14.vii.–5.viii.2008, Mt, 1 ♀, 5.–26.viii.2008, Mt, 2 ♂♂ 4 ♀♀, 26.viii.–24.ix.2008, Mt, 1 ♂, 24.ix.–27.x.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Collected at three sites on the western border of the area. **General distribution:** West Mediterranean, an expansive species in central Europe and the Balkans. **Biology and habitat:** On Malvaceae *s. l.*, developing on *Tilia cordata* in conditions of central Europe and overwintering in conspicuous mass aggregation on southern faces of linden trunks. Recently spreading in central Europe, occurring mostly in towns and villages and their close environs (KMENT *et al.* 2006). **Red List status:** –.

Comments. In the Czech Republic recorded for the first time in Brno in 2004, subsequently documented as spreading in southern and central Moravia (KMENT *et al.* 2006, 2010; HRADIL *et al.* 2008); in 2009 also found in Bohemia: Praha (5952) and České Budějovice (7052) (KMENT *et al.* 2010).

Oxycarenus (Pseudoxycarenus) modestus (Fallén, 1829)

Published record. STEHLÍK & VAVŘÍNOVÁ (1997b): Radějov, surroundings of the Mandát brook (214).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, not collected in the course of the recent survey. **General distribution:** West Eurosiberian, extending to

Anatolia. **Biology and habitat:** On *Alnus incana* and *A. glutinosa*, exceptionally on *Betula*. In humid places with alder stands, mainly in valleys along streams and rivers and around ponds. Widespread, but rare (STEHLÍK & VAVŘÍNOVÁ 1997b, WACHMANN *et al.* 2007). **Red List status:** –.

Family HETEROGASTRIDAE

Heterogaster affinis Herrich-Schaeffer, 1835 (VU)

Material examined. Radějov, Žerotín NM (188), 14.v.–4.vi.2008, Mt, 1 ♀, 26.vi.–14.vii.2008, Mt, 1 ♂, 5.–26.viii.2008, Mt, 1 ♂, 26.viii.–24.ix.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only with Malaise traps in one xerothermic site at the southern border of the area. **General distribution:** Holomediterranean, extending to central Europe, and Central Asiatic. **Biology and habitat:** On Lamiaceae (*Thymus*, *Teucrium*, *Origanum*, *Calamintha*, etc.) in xerothermic localities, mostly on rocky substrates, rarely on sands. Rare, in Moravia confined to the Pannonicum (STEHLÍK & VAVŘÍNOVÁ 1997b, WACHMANN *et al.* 2007). **Red List status:** Vulnerable.

Heterogaster artemisiae Schilling, 1829

Material examined. Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 1 ♂, 8.viii.2007, 1 ♂, 22.ix.2007, 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected at one site in the central part of the area. **General distribution:** Holomediterranean, extending to western and central Europe, and Central Asiatic, extending to north-western China. **Biology and habitat:** On and under *Thymus*, rarely collected on other plants, in xerothermic localities with sparse vegetation. Not rare (STEHLÍK & VAVŘÍNOVÁ 1997b, WACHMANN *et al.* 2007). **Red List status:** –.

Heterogaster urticae (Fabricius, 1775)

Material examined. Hrubá Vrbka, village (212), 15.ix.2004, oak trunks, under bark, 2 ♀♀, M. Straka lgt. (PKPC); 27.–29.vi.2008, 2 ♂♂ 1 ♀, Z. Malinka lgt. (NMPC, ZMOC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 8.–28.v.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Collected only in the southern part of the area, rare. **General distribution:** Holopalaeartic. **Biology and habitat:** On *Urtica*, mostly *U. dioica*. In sunny places or in mesophilous communities with nettles, often in ruderal sites. Widespread, not rare (STEHLÍK & VAVŘÍNOVÁ 1997b, WACHMANN *et al.* 2007). **Red List status:** –.

Platyplax salviae (Schilling, 1829)

Published records. HOBERLANDT (1944): Javorník (7171). STEHLÍK & VAVŘÍNOVÁ (1997b): Luhačovice, Luhačovická dolina valley (62); Bylnice (6974); Bylnice, Na Tatrách, Bylnický potok brook [= Bylničky,

True bugs (Hemiptera: Heteroptera)

Tarandové hill] (80); Petrov [as Pavlov u Radějova] (182); Radějov (7170); Javorník (7171); Nová Lhota (7171); Velká nad Veličkou (7171). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 17.vi.2006, 3 ♀♀, I. Malenovský lgt., 16.viii.2006, 2 ♂♂, P. Kment lgt. (PKPC). Štítná nad Vláří, south-exposed slopes N of the village (74), 22.v.2006, 1 ♀, 10.vii.2006, 1 ♂ 2 ♀♀, O. Konvička lgt. (NMPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Bylnice, railway station environs (83), 1.vii.1999, 1 ♂, P. Kment & M. Omesová lgt. (PKPC). Lipov, Pešunk (100), 10.vii.2009, 1 ♂, Z. Malinka lgt. (ZMOC). Lopeník (152), 8.vi.1999, 1 ♂ 3 ♀♀, K. Hradil lgt. et det. (KHMC). Blatnička, Milejovské louky meadows (104), 11.vii.2009, 8 ♂♂ 2 ♀♀, 16.viii.2009, 11 ♂♂ 9 ♀♀, P. Baňář lgt. et det. (MMBC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 1 ♀, 9.–29.v.2007, Mt, 3 ♂♂ 2 ♀♀, 29.v.–19.vi.2007, Mt, 1 ♂, 19.vi.–11.vii.2007, Mt, 1 ♀, 11.–31.vii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 1 L, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 14.v.–4.vi.2008, Mt, 1 ♂ 1 ♀, 26.vi.–14.vii.2008, Mt, 3 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.v.1998, 4 ♀♀, 13.vii.1998, 1 ♀, P. Kment lgt. (PKPC); 12.v.–2.vi.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchové Mlýny, sheep pasture (226), 26.v.2005, 1 ♂, I. Malenovský lgt. (PKPC). Suchové Mlýny, meadow (227), 23.vi.2004, 2 ♂♂ 3 ♀♀, 27.vii.2005, 1 ♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 6.v.2000, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 23.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Machová NR (259), 8.–28.v.2007, Mt, 1 ♀, Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 8.–28.v.2007, Mt, 1 ♀, 28.v.–18.vi.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 23.v.2002, 1 ♀, P. Kment lgt. (PKPC); 25.v.–15.vi.2010, Mt, 1 ♂, 15.vi.–9.vii.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common in xerothermic localities throughout the area. **General distribution:** Holomediterranean, extending to central Europe, and Central Asiatic, extending to western Siberia. **Biology and habitat:** On *Salvia*, mostly *S. pratensis*, but also *S. verticillata* and *S. nemorosa*, in xerothermic localities, such as dry grassland and species-rich meadows. Quite frequent (STEHLÍK & VAVŘINOVÁ 1997b, WACHMANN *et al.* 2007). **Red List status:** –.

Family RHYPAROCHROMIDAE

Acompus rufipes (Wolff, 1804)

(NT)

Published records. STEHLÍK & VAVŘINOVÁ (1998a): Kněždub (towards Tvarožná Lhota), springs on a slope (7170); Nová Lhota, near Fojtičky mill [= Fojtické Mlýny] (245). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Bílé potoky NR, meadow (48), vegetation along railway, on *Valeriana* cf. *officinalis*, 14.viii.2006, 2 L, P. Kment observ. Nedašov, Jalovcová stráň NR (54), 3.vii.1999, 1 ♀ (br), 12.vii.2006, 2 ♂♂ (br), P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 20.v.1999, 7 ♂♂ 4 ♀♀ (br), P. Kment & I. Malenovský lgt. (JBSC, PKPC). Horní Němčí, Drahy NR (117), 15.v.1998, 1 ♀ (br), P. Kment lgt. (PKPC). Lopeník, Mechnáč (153), on *Valeriana* cf. *officinalis*, 18.viii.2004, 5 L, P. Kment observ. Petrov, Staré hory hill (186), on *Valeriana* cf. *officinalis*, 19.viii.2002, 1 ♀ (br), P. Kment lgt. (PKPC). Malá Vrbka, between village and Výzkum hill (205), 16.viii.2000, on *Valeriana* cf. *officinalis*, 1 ♂ (br), P. Kment lgt. (PKPC). Trnovský Mlýn, along road to Suchové Mlýny (230), on *Valeriana* cf. *officinalis*, 16.viii.2004, 1 L, P. Kment observ. Javorník, Jazevčí NNR (232), 15.vii.1998, 1 ♀ (br), I. Malenovský & M. Omesová lgt. (PKPC); 18.viii.2000, on *Valeriana officinalis*, 3 ♂♂ (br), P. Kment lgt. (PKPC). Javorník, Machová NR (259), 14.v.1998, 1 ♂ 1 ♀ (ma) 2 ♂♂ 6 ♀♀ (br), P. Kment lgt., 8.v.2000, 1 ♀ (ma), I. Malenovský lgt. (PKPC). Strání, Záhumenice NM (266), 2.vii.2001, 1 ♂ (ma), P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area; a characteristic species of half-shaded places at forest margins, along hedges of shrubs in

meadows, in roadside ditches and along small streams. **General distribution:** Eurosiberian, extending to Maghreb, Anatolia and Iran. **Biology and habitat:** On *Valeriana* (*V. officinalis*, *V. dioica*, *V. sambucifolia*), preferring humid habitats – peat bogs, peaty and wet meadows, shores of ponds, swamps, banks of rivers and smaller streams, more rarely occurring in steppe-like habitats in proximity of water bodies (STEHLÍK & VAVŘINOVÁ 1998a, WACHMANN *et al.* 2007). **Red List status:** Near-threatened.

***Drymus (Sylvadrymus) brunneus brunneus* (R. F. Sahlberg, 1848)**

Material examined. Nedašov, Pod Cigánem NM (91), 5.x.2004, 1 spec., I. Malenovský lgt. (PKPC). Javorník, Machová NR (259), 9.vii.–2.viii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 18.vi.–9.vii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** Holarctic (Eurosiberian, extending to Anatolia and Iran; Canada). **Biology and habitat:** Seed predator. Epigeic, the most hygrophilous of the Czech *Drymus* species. In shaded deciduous and coniferous forests (e.g. humid alluvial woodland), more rarely in open humid habitats as shores of ponds, peat bogs and wet meadows. Widespread, not rare (STEHLÍK & VAVŘINOVÁ 1998a, WACHMANN *et al.* 2007). **Red List status:** –.

***Drymus (Sylvadrymus) ryeii* Douglas et Scott, 1865**

Material examined. Bylnice, Lazy NR and environs (82), 12.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Lopeník, U Zvonice NM (155), 16.iv.–20.v.2005, pt, 1 ♂, K. Resl lgt. (PKPC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 18.iv.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 7.iv.–12.v.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 14.v.1998, 1 ♂, P. Kment lgt. (PKPC); 12.iv.–8.v.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, quite rare. **General distribution:** West Eurosiberian, extending to Iran. **Biology and habitat:** Seed predator. Epigeic, euryecious, although preferring more humid and shaded habitats than *D. sylvaticus* (e.g. deciduous and floodplain forests, forest margins and clearings, peat bogs, peaty meadows, gardens, dry slopes). Common (STEHLÍK & VAVŘINOVÁ 1998a, WACHMANN *et al.* 2007). **Red List status:** –.

***Drymus (Sylvadrymus) sylvaticus* (Fabricius, 1775)**

Published records. STEHLÍK & VAVŘINOVÁ (1998a): Nedašova Lhota (6874); Bylnice (6974); Sidonie (6974). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Poteč, Ploštiny NR (42), 13.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Jalovcová stráň NR (54), 20.v.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Sidonie, Sidonie NR (87), 7.iv.–5.v.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Nedašov, Pod Cigánem NM (91), 1.ix.2004, 3 ♂♂, 5.x.2004, 3 ♂♂ 5 ♀♀, 28.v.2005, 1 ♂, 6.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC).

True bugs (Hemiptera: Heteroptera)

Suchov, Kazivec brook valley (116), 9.ix.1998, 5 ♂♂ 1 ♀, I. Malenovský & M. Omesová lgt. (PKPC). Horní Němčí, Drahy NR (117), 15.v.1998, 1 ♂, M. Horsák & J. Horsáková lgt. (PKPC). Starý Hrozenkov, Bartoňové (132), 18.viii.2001, 1 ♀, M. Horsák lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 20.v.–25.vi.2005, pt, 1 ♂, K. Resl lgt. (PKPC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 8.viii.2007, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 8.vii.2000, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, between village and Výzkum hill (205), 16.viii.2000, 1 ♂, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 8.iv.–5.v.2000, pt, 2 ♂♂, P. Bezděčka lgt., 5.v.2000, 1 ♀, 25.v.2000, 1 ♀, 27.vii.2000, 7 ♂♂ 2 ♀♀, I. Malenovský lgt., 22.x.2000, 1 ♀, P. Kment lgt., 2.v.2001, 25 ♂♂ 35 ♀♀, P. Kment & I. Malenovský lgt., 28.vii.2001, 1 ♂, 18.v.2002, 1 ♂, I. Malenovský lgt., 17.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 28.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt., 16.viii.2000, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 18.iv.2000, 1 ♀, P. Kment & I. Malenovský lgt., 24.vii.2000, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 1 ♀, I. Malenovský lgt. (PKPC); 6.iv.–12.v.2009, Mt, 1 ♀, 24.viii.–14.ix.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Hryzácké Mlýny (246), 7.iv.–12.v.2009, Mt, 1 ♂, 16.ix.–22.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Vápenky, Porážky NNR (247), 9.ix.1998, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Machová NR (259), 2.–22.viii.2007, Mt, 2 ♀♀, 10.ix.–3.x.2007, Mt, 1 ♂ 1 ♀, 3.–30.x.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, below Zahrady pod Hájem NNR (221), 18.iv.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Strání, Záhumenice NM (266), 24.v.2001, 1 ♂, 21.ix.2001, 1 ♂, I. Malenovský lgt. (PKPC); 12.viii.–9.ix.2010, Mt, 1 ♂, 9.ix.–22.x.2010, Mt, 1 ♂ 2 ♀♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 15.vii.–6.viii.2009, Mt, 1 ♂ 1 ♀, 24.viii.–17.ix.2009, Mt, 1 ♂, 17.ix.–21.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area.

General distribution: Eurosiberian and Central Asiatic. **Biology and habitat:** Seed predator. Epigeic, euryecious, although preferring more dry and open habitats than *D. ryeii* (e.g. peat bogs, forest clearings, sands, river valleys, salt marshes, heathland, dry grassland, and ruderal sites). Common (STEHLÍK & VAVŘÍNOVÁ 1998a, WACHMANN *et al.* 2007). **Red List status:** –.

Emblethis denticollis Horváth, 1878

Material examined. Malá Vrbka, Výzkum hill, restored grassland (208), 20.viii.–5.ix.2000, pt, 8 ♂♂ 8 ♀♀, P. Bezděčka lgt., 28.vii.2001, 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, found only in one site in the southern part of the area. **General distribution:** Holopalaeartic (except easternmost Asia). **Biology and habitat:** A polyphagous seed predator. Epigeic in xerothermic habitats, especially on sands and in ruderal sites. Common (STEHLÍK & VAVŘÍNOVÁ 1998b, WACHMANN *et al.* 2007). **Red List status:** –.

Emblethis griseus (Wolff, 1802)

Material examined. Malá Vrbka, Výzkum hill, restored grassland (208), 20.viii.–5.ix.2000, pt, 8 ♂♂ 1 ♀, P. Bezděčka lgt., 28.vii.2001, 1 ♂, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, found only in one site in the southern part of the area. **General distribution:** West Palaeartic. **Biology and habitat:** A seed predator. Epigeic, in xerothermic habitats in warm lowlands, especially in dry grassland and ruderal sites. Rare (STEHLÍK & VAVŘÍNOVÁ 1998b). **Red List status:** –.

***Eremocoris podagricus* (Fabricius, 1775)**

Material examined. Radějov, Mandát brook valley below Kútky NR (218), 14.v.–4.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 12.iv.–8.v.2007, Mt, 1 ♂, 8.–28.v.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 12.iv.–8.v.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Collected only with Malaise traps in the southern part of the area, rare. **General distribution:** North Mediterranean, extending to Maghreb, Anatolia and Transcaucasia. **Biology and habitat:** A seed predator. Epigeic, eurytopic, living among mosses and in litter in open or half-shaded, xerothermic as well as more humid habitats, such as forest margins, hedges, or under *Juniperus* shrubs. Not rare (STEHLÍK & VAVŘINOVÁ 1998a, WACHMANN *et al.* 2007). **Red List status:** –.

***Gastrodes abietum* Bergroth, 1914**

Material examined. Poteč, Ploščiny NR (42), under scales of the bark of *Abies alba*, 12.iii.2006, 1 ♀, O. Konvička lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.ix.–20.x.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Javorník, Jazevěčí NNR, left-side tributary of Velička river (241), 6.iv.–12.v.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 17.ix.–21.x.2009, Mt, 1 ♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, but quite rare. **General distribution:** Eurosiberian. **Biology and habitat:** On *Picea abies*, less frequently on *Larix decidua*, *Abies alba* and other conifers; associated with cones. Common, although preferring medium and higher altitudes (STEHLÍK & VAVŘINOVÁ 1998a, WACHMANN *et al.* 2007). **Red List status:** –.

***Gastrodes grossipes grossipes* (De Geer, 1773)**

Material examined. Valašské Klobouky, Dobšená NM (31), 1.x.2007, 1 ♂, O. Konvička lgt. (PKPC). Poteč, Ploščiny NR (42), 12.iii.2006, under scales of the bark of *Abies alba*, 2 ♀♀, O. Konvička lgt., 17.viii.2006, on *Pinus sylvestris*, 1 ♂, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 5.x.2004, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR (117), on *Pinus sylvestris*, 30.vi.2001, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 13.vii.1998, on *Pinus sylvestris*, 1 ♂ 1 ♀ larvae, P. Kment lgt., (MHBC, PKPC); 19.vi.2000, 1 ♂ 4 ♀♀ (2 ♀♀ freshly hatched), P. Kment lgt., 9.–10.ix.2000, 1 ♂ 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 8.iv.–12.v.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Javorník, Jazevěčí NNR, left-side tributary of Velička river (241), 24.viii.–14.ix.2009, Mt, 1 ♂, 14.ix.–22.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 7.iv.–5.v.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 17.ix.–21.x.2009, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** Eurosiberian, extending to Anatolia, Transcaucasia and Egypt. **Biology and habitat:** On *Pinus sylvestris* and other *Pinus* species, more rarely on other Pinaceae (especially *Larix decidua*); associated with cones. Common and eurytopic, occurring in all altitudes (STEHLÍK & VAVŘINOVÁ 1998a, WACHMANN *et al.* 2007). **Red List status:** –.

***Graptopeltus lynceus* (Fabricius, 1775)**

Material examined. Malá Vrbka, Výzkum hill, restored grassland (208), 28.vii.2001, 1 ♀, I. Malenovský lgt. (PKPC). Suchovské Mlýny, sheep pasture (226), 23.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 17.vii.2002, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 19.vii.–17.viii.2003, pt, 1 ♀, K. Resl lgt. (PKPC). Javorník, Machová NR (259), 2.–22.viii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Collected only in the southern part of the area, rare. **General distribution:** West Palaearctic. **Biology and habitat:** A seed predator. On and under Boraginaceae, more rarely on other plants. Epigeic, in dry and open warm localities (e.g. aeolian sands, sand pits, sunlit habitats on rocky substrates), missing in mountain regions. Common (STEHLÍK & VAVŘÍNOVÁ 1998b, WACHMANN *et al.* 2007). **Red List status:** –.

***Lamprodema maurum* (Fabricius, 1803)**

(VU)

Published record. STEHLÍK & VAVŘÍNOVÁ (1998b): Radějov, Holý vrch hill (189).

Material examined. Malá Vrbka, Výzkum hill, restored grassland (208), 27.vii.2000, 1 ♂ (sma), I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only in two xerothermic sites in the southern part of the area. **General distribution:** Holomediterranean, extending to central Europe, and Central Asiatic. **Biology and habitat:** A seed predator. Epigeic, in nutrient-rich or salty, open habitats; in Moravia mostly found in ruderal sites in warm lowlands (sand pits, devastated fragments of aeolian sands, quarries), less frequently in natural habitats (dry grassland). Rare (STEHLÍK & VAVŘÍNOVÁ 1998b, WACHMANN *et al.* 2007). **Red List status:** Vulnerable.

***Lasiosomus enervis* (Herrich-Schaeffer, 1835)**

(VU)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Javorůvky NR (32), 22.v.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Pitín (72), 20.vii.1957, 1 ♀, Ondřej lgt. (MMBC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 10.viii.–7.ix.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 12.iv.–8.v.2007, Mt, 1 ♀, 22.viii.–10.ix.2007, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** European, extending to Transcaucasia. **Biology and habitat:** Probably a seed predator, once collected under the bottom leaves of *Symphytum*. At medium and higher altitudes, mainly in valleys along streams, in peat bogs, peaty and wet meadows, and forest clearings. Rare (STEHLÍK & VAVŘÍNOVÁ 1998a, WACHMANN *et al.* 2007). **Red List status:** Vulnerable.

***Megalonotus antennatus* (Schilling, 1829)**

(VU)

Material examined. Brumov, Uhličky (44), 4.vii.–6.viii.2005, 1 ♀ (br), K. Resl lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 26.x.2007, 1 ♀ (br), J. Vávra lgt. (OMOC). Nedašov, Kaňoury NM (55), 17.vi.2006,

1 ♀ (br), I. Malenovský lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 1.ix.2004, 1 ♀ (br), 5.x.2004, 2 ♂♂ 1 ♀ (br; 1 ♂ freshly hatched), 28.v.2005, 1 ♀ (br), I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR (117), 22.v.–22.vi.2003, pt, 1 ♀ (br), K. Resl lgt. (PKPC). Lopeník, U Zvonice NM (155), 20.v.–25.vi.2005, pt, 1 ♂ (br), 26.vii.–26.viii.2005, pt, 1 ♂ (br) 2 L5, K. Resl lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 18.iv.2000, 1 ♂ (br), P. Kment & I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 23.ix.2001, 1 ♀ (br), 15.v.–17.vi.2003, pt, 1 ♀ (br), K. Resl lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, quite rare; a characteristic species for species-rich meadows communities. **General distribution:** Eurosiberian, extending to Transcaucasia. **Biology and habitat:** A seed predator. Epigeic, euryecious, found in open as well as shaded habitats regardless humidity and substrate (e.g. peat bogs, meadows, heathland, sunlit slopes with rocky substrate). Rare (STEHLÍK & VAVŘINOVÁ 1998b, WACHMANN *et al.* 2007). **Red List status:** Vulnerable.

Megalonotus chiragra (Fabricius, 1794)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Horní Němčí, Drahy NR (117), 15.v.1998, 1 ♀, P. Kment lgt., 21.vii.2002, 1 ♂, I. Malenovský lgt. (PKPC). Horní Němčí, Vinohrádky (121), 22.vi.–24.vii.2003, pt, 1 ♂, K. Resl lgt. (PKPC). Žitková, Hutě NR (164), 11.iv.2007, 1 ♀, O. Konvička lgt., 11.–31.vii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 26.vi.–14.vii.2008, Mt, 1 ♂, 14.vii.–5.viii.2008, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 3.iv.–6.v.2005, pt, 1 ♀, K. Resl lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 7.ix.2002, 1 ♀, I. Malenovský lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 4.–24.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 22.v.–22.vi.2003, pt, 1 ♂, 22.vi.–24.vii.2003, pt, 3 ♀♀, 24.vii.–22.viii.2003, pt, 1 ♂, K. Resl lgt. (PKPC). Strání, Záhumenice NM (266), 22.viii.–27.ix.2003, pt, 1 ♂ 3 ♀♀, K. Resl lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread in the central and southern parts of the area, not found in the north. **General distribution:** Holopalaearctic (except easternmost Asia). **Biology and habitat:** A seed predator. Epigeic, euryecious, preferring dry habitats (e.g. on sands, at forest margins and clearings, in river valleys, gardens and orchards, pastures, dry grassland, and ruderal vegetation). Common (STEHLÍK & VAVŘINOVÁ 1998b, WACHMANN *et al.* 2007). **Red List status:** –.

Megalonotus sabulicola (Thomson, 1870)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Nedašov, Jalovcová stráž NR (54), 28.vii.2005, 1 ♀, I. Malenovský lgt. (PKPC). Hluk, Kobylí hlava NM (101), 24.viii.2002, 1 ♀, I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 21.viii.–12.ix.2007, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 2 ♀♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 14.v.–4.vi.2008, Mt, 1 ♀, 4.–26.vi.2008, Mt, 1 ♂, 26.vi.–14.vii.2008, Mt, 4 ♂♂ 7 ♀♀, 14.vii.–5.viii.2008, Mt, 2 ♂♂ 3 ♀♀, 5.–26.viii.2008, Mt, 2 ♂♂, 26.viii.–24.ix.2008, Mt, 3 ♂♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Malá Vrbka, Výzkum hill, restored grassland (208), 8.iv.–5.v.2000, pt, 1 ♀, P. Bezděčka lgt., 27.vii.2000, 1 ♂ 1 ♀, I. Malenovský lgt., 2.v.2001, 1 ♂, I. Malenovský lgt., 28.vii.2001, 4 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC). Radějov, Kútky NR (217), 26.vi.–15.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Mandát brook valley below Kútky NR (218), 15.vii.–5.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 24.ix.2000, 1 ♀, J. Strejček lgt. (OBPC); 14.ix.–22.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 22.viii.–10.ix.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J.

Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, meadow (243), 17.vi.–19.vii.2003, pt, 1 ♀, K. Resl lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 18.iv.2000, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 24.viii.–14.ix.2009, Mt, 1 ♀, 14.ix.–20.x.2009, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 15.vi.–9.vii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Holarctic (Holopalaearctic and Nearctic). **Biology and habitat:** A seed predator. Epigeic, euryecious, preferring dry and sunny places. Common (STEHLÍK & VAVŘINOVÁ 1998b, WACHMANN *et al.* 2007). **Red List status:** –.

Pachybrachius luridus Hahn, 1826

(VU)

Material examined. Březová, Kalábová NM (137), 4.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only in one spring fen in the central part of the area. **General distribution:** Eurosiberian. **Biology and habitat:** On various Cyperaceae (*Eriophorum*, *Trichophorum*, *Rhynchospora*, *Carex*), also found on *Symphytum*. Epigeic, often dwelling in moss; in peat bogs, peaty meadows, more rarely in swamps and humid meadows. Rare (STEHLÍK & VAVŘINOVÁ 1998b, WACHMANN *et al.* 2007). **Red List status:** Vulnerable.

Comments. *Pachybrachius luridus* occurs in Moravia mostly at medium and higher altitudes. It had not been recorded from the Moravian Carpathians (see STEHLÍK & VAVŘINOVÁ 1998b) until ROHÁČOVÁ (2003a, 2005, 2011) collected it in three localities in the Moravskoslezské Beskydy Mts.

Peritrechus geniculatus (Hahn, 1832)

Published records. STEHLÍK & VAVŘINOVÁ (1998b): Horní Němčí (7071); Strání (70–7172); Kněždub (7170); Javorník (7171); Velká nad Veličkou (7171). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Poteč, Ploštiny NR (42), 24.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Nedašov, Hrušová dolina valley (53), 20.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, meadow E of Jalovcová stráž NR (59), 30.vi.2004, 3 ♂♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 5.x.2004, 1 ♂, I. Malenovský lgt. (PKPC). Hluk, Babí hora NM (102), 24.viii.2002, 2 ♂♂, I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 16.viii.2009, 1 ♂ 1 ♀, P. Baňar lgt. et det. (MMBC). Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Lopeník, U Zvonice NM (155), 21.v.2005, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 21.v.2005, 1 ♂, I. Malenovský lgt., 26.vi.–26.vii.2005, pt, 1 ♀, 26.viii.–28.ix.2005, pt, 1 ♀, K. Resl lgt. (PKPC). Žitková (163), 11.vi.1999, 1 ♀, K. Hradil lgt. et det. (KHMC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 13 ♂♂ 14 ♀♀, 9.–29.v.2007, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Výškovce Bošacký, cattle pasture (179), 27.vi.2004, 1 ♀, 3.ix.2005, 1 ♂, I. Malenovský lgt. (PKPC). Malá Vrbka, between village and Výzkum hill (205), 17.viii.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 8.iv.–5.v.2000, pt, 1 ♀, P. Bezděčka lgt., 5.v.2000, 1 ♂, 25.v.2000, 1 ♀, I. Malenovský lgt., 4.viii.2000, 4 ♂♂ 1 ♀, 16.viii.2000, 3 ♀♀, P. Kment lgt., 2.v.2001, 1 ♂ 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Radějov, Kútky NR (217), 7.vi.2008, 1 ♀, J. Ch. Vávra lgt. (OMOC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 24.viii.–14.ix.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 6.viii.–8.ix.2005, pt, 1 ♀, K. Resl lgt. (PKPC). Suchovské Mlýny, meadow (227), 26.v.2005, 1 ♂, I. Malenovský lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 1.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Trnovský Mlýn, meadow (229), 26.v.2005, 1 ♂, 1.ix.2005, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Jazevěč NNR (232), 19.vi.2000, 1 ♀, I. Malenovský lgt., 18.viii.2000, 2 ♂♂, P. Kment lgt., 10.ix.2000, 2 ♂♂, P. Kment & I. Malenovský lgt. (PKPC); 6.iv.–12.v.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek &

J. Macek lgt. (NMPC). Javorník, railway station (237), in front of waiting cabine, 9.vii.1998, 1 ♀, P. Kment observ. Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 6.iv.–12.v.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♀, I. Malenovský lgt., 23.ix.2001, 1 ♂, P. Kment lgt., 15.v.–17.vi.2003, pt, 1 ♀, K. Resl lgt., 23.vi.2004, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 3.v.2001, 1 ♂, P. Kment & I. Malenovský lgt., 29.vi.2001, 1 ♂ 1 ♀, P. Kment lgt., 15.v.–17.vi.2003, pt, 1 ♂, 17.vi.–19.vii.2003, pt, 1 ♀, K. Resl lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 16.ix.–22.x.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Vápenky, Porážky NNR (247), 9.ix.1998, 1 ♀, I. Malenovský & M. Omesová lgt. (PKPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 7.iv.–12.v.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 12.iv.–8.v.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 22.vi.–24.vii.2003, pt, 3 ♀♀, K. Resl lgt. (PKPC). Strání, Javorina NNR, meadow (270), 4.vii.2001, 5 ♀♀, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area, although it is quite rare in its northern part. **General distribution:** West Palaearctic. **Biology and habitat:** A seed predator. Epigeic, euryecious, found in floodplain forests as well as on dry slopes. Common (STEHLÍK & VAVŘINOVÁ 1998b, WACHMANN *et al.* 2007). **Red List status:** –.

Peritrechus gracilicornis Puton, 1877

(EN)

Material examined. Malá Vrbka, Výzkum hill, restored grassland (208), 4.x.2002, 1 ♂, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 7.iv.–5.v.2010, Mt, 1 ♂, P. Chvojka & M. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only in two xerothermic localities in the southern part of the area. **General distribution:** Holomediterranean, extending to western and central Europe, and Central Asiatic. **Biology and habitat:** A seed predator. Epigeic, inhabiting xerothermic, open habitats with low and patchy vegetation without preference for a particular substrate (STEHLÍK & VAVŘINOVÁ 1998b, WACHMANN *et al.* 2007). **Red List status:** Endangered.

Comments. Very rare in Moravia, found only in three localities in the Pannonicum: Brno (Žlutý kopec hill, 6865) (STEHLÍK 1963), Mohelno (6863) (ROUBAL 1968), and Nový Přerov (Přerovský vrch hill, 7165) (STEHLÍK & VAVŘINOVÁ 1998b).

Peritrechus nubilus (Fallén, 1807)

(NT)

Material examined. Louka, Hloží NR (106), 24.iv.1999, 1 ♀, M. Horsák lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 27.vii.2000, 1 ♂ 2 ♀♀, I. Malenovský lgt. (PKPC); 2.v.2001, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (KHMC, PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only at two sites in the southern part of the area. **General distribution:** West Palaearctic. **Biology and habitat:** A seed predator. Epigeic; euryecious, preferring more humid habitats (e.g. humid meadows and salt marshes) but found on sunny slopes on rocky substrates as well. Quite rare (STEHLÍK & VAVŘINOVÁ 1998b, WACHMANN *et al.* 2007). **Red List status:** Near-threatened.

***Plinthisus (Plinthisomus) pusillus* (Scholz, 1847) (NT)**

Material examined. Nedašov, Jalovcová stráň NR (54), sifting of litter, 17.i.2008, 1 ♂ (br), O. Konvička lgt. (OKZC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 6.xii.2008, 1 ♀ (br), E. Ezer lgt. (EEZC). Nová Lhota, Hryzlácké Mlýny (246), 15.vii.–4.viii.2009, Mt, 1 ♂ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** Eurosiberian, extending to Anatolia and Transcaucasia. **Biology and habitat:** A seed predator. Epigeic, in open xerothermic localities in lowlands as well as in hilly landscapes (e.g. on sands and in heathland). Quite rare (STEHLÍK & VAVŘINOVÁ 1998a, WACHMANN *et al.* 2007). **Red List status:** Near-threatened.

***Plinthisus (Plinthisus) brevipennis* (Latreille, 1807)**

Material examined. Nedašov, Jalovcová stráň NR (54), 16.viii.2006, 1 ♀ (ma), P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only in one locality in the northern part of the area. **General distribution:** West Palaearctic. **Biology and habitat:** A seed predator. An epigeic, thermophilous species inhabiting open deciduous as well as coniferous forests, and forest margins, mostly avoiding open habitats. Quite rare (STEHLÍK & VAVŘINOVÁ 1998a, WACHMANN *et al.* 2007). **Red List status:** –.

***Pterotmetus staphyliniformis* (Schilling, 1829)**

Material examined. Nedašov, Jalovcová stráň NR (54), 5.x.2004, 1 ♂ (ma), 28.vii.2005, 1 ♂ (br), I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 16.viii.2006, 2 ♀♀ (sma) 1 ♀ (br), P. Kment lgt. (PKPC). Nedašov, meadow E of Jalovcová stráň NR (59), 30.vi.2004, 1 ♀ (br), I. Malenovský lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 L, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♀ (sma), P. Kment & I. Malenovský lgt. (PKPC). Březová, Cestiska NM (136), 2.x.2007, 1 ♀ (br), O. Konvička lgt. (NMPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 2 ♂♂ (br), P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 2 ♂♂ 3 ♀♀ (br), 8.viii.2007, 1 ♂ (br), 22.ix.2007, 1 ♂ (br), P. Kment lgt. (PKPC). Malá Vrbka, between village and Výzkum hill (205), 16.viii.2000, 1 ♀ (sma), P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 8.vii.2000, 1 ♀, 16.viii.2000, 2 ♀♀, P. Kment lgt. (PKPC). Suchovské Mlýny, sheep pasture (226), 23.vi.2004, 1 ♂ (sma) 1 ♂ 1 ♀ (br), 27.vii.2005, 1 ♂ (sma) 1 ♂ (br) 2 L, I. Malenovský lgt. (PKPC). Javorník, Jazevečí NNR (232), 10.ix.2000, 1 ♂ (sma), P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** Eurosiberian and Central Asiatic. **Biology and habitat:** A seed predator. Epigeic; mostly in sunny and warm open habitats, e.g. species-rich meadows, dry grassland on rocks, and ruderal sites. Not rare (STEHLÍK & VAVŘINOVÁ 1998b, WACHMANN *et al.* 2007). **Red List status:** –.

***Raglius alboacuminatus alboacuminatus* (Goeze, 1778)**

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrov, Staré hory hill (186), under bark of tree, 19.viii.2002, 1 ♀ (ma), P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 11.vii.1998, 1 ♂ (br), M. Horsák lgt., 30.viii.2005, *Quercetum pubescentis*

and vineyards, 1 ♀ (ma), M. Horsák lgt. (PKBC); 4.–26.vi.2008, Mt, 1 ♂ (ma), 26.vi.–14.vii.2008, Mt, 1 ♂ (ma), 14.vii.–5.viii.2008, Mt, 2 ♂♂ (ma), 5.–26.viii.2008, Mt, 1 ♀ (ma), 26.viii.–24.ix.2008, Mt, 1 ♂ 1 ♀ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Malá Vrbka, Výzkum hill, restored grassland (208), 27.vii.2000, 1 ♀ (ma), I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), under stone, 17.iv.2000, 1 ♀ (ma), P. Kment & I. Malenovský lgt. (PKPC). Hrubá Vrbka, village (212), 9.–12.vii.2009, 1 ♀ (ma), Z. Malinka lgt. (ZMOC). Javorník, Machová NR (259), 9.vii.–2.viii.2007, Mt, 1 ♂ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 9.–10.ix.2000, under bark of *Prunus domestica*, 1 ♀ (ma), P. Kment & I. Malenovský lgt. (PKPC); 24.viii.–14.ix.2009, Mt, 1 ♀ (ma), P. Chvojka, J. Ježek & M. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread in the southern part of the area. **General distribution:** West Palaearctic, introduced to North America. **Biology and habitat:** A seed predator. Epigeic, euryecious, although preferring dry to mesic localities, including forest clearings and ruderal sites. Common (STEHLÍK & VAVŘINOVÁ 1998b, WACHMANN *et al.* 2007). **Red List status:** –.

Raglius confusus (Reuter, 1886)

(NT)

Material examined. Radějov, Žerotín NM (188), 14.vii.–5.viii.2008, Mt, 1 ♂, 5.–26.viii.2008, Mt, 1 ♂ 6 ♀♀, 26.viii.–24.ix.2008, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only with Malaise trap in one xerothermic site at the southern border of the area. **General distribution:** Holomediterranean, extending to central Europe. **Biology and habitat:** A seed predator. Epigeic, on xerothermic, stony habitats on various substrates. Very rare in Moravia, confined to the Pannonicum (STEHLÍK & VAVŘINOVÁ 1998b, WACHMANN *et al.* 2007). **Red List status:** Near-threatened.

Rhyparochromus pini (Linnaeus, 1758)

Published record. STEHLÍK & VAVŘINOVÁ (1998b): Bylnice (6974).

Material examined. Hluk, Kobyli hlava NM (101), 24.viii.2002, 1 ♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR (117), 13.viii.2001, 1 ♂, P. Kment lgt., 18.iv.–22.v.2003, pt, 1 ♀, 22.vi.–24.viii.2003, pt, 1 ♀, 24.vii.–22.viii.2003, pt, 1 ♂ 1 ♀, 22.viii.–27.ix.2003, pt, 1 ♂, K. Resl lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 1 ♀, P. Kment lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 19.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 8.iv.–5.v.2000, pt, 2 ♀♀, P. Bezděčka lgt., 28.vii.2001, 1 ♂, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 16.viii.2000, 1 ♂ 1 ♀, P. Kment lgt., 22.x.2000, in litter under demolition rubble, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Suchovské Mlýny, sheep pasture (226), 6.viii.–8.ix.2005, pt, 1 ♀, K. Resl lgt. (PKPC). Javorník, Nad Vápenkou NM (236), 7.ix.2002, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 19.vii.–17.viii.2003, pt, 1 ♂, K. Resl lgt.; 2.ix.2004, 2 ♂♂, I. Malenovský lgt. (PKPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 7.iv.–12.v.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 22.vi.–24.vii.2003, pt, 1 ♂, K. Resl lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread in the central and southern parts of the area. **General distribution:** Holopalaearctic. **Biology and habitat:** A seed predator. Epigeic, euryecious; occurring also in ruderal sites. Very common (STEHLÍK & VAVŘINOVÁ 1998b, WACHMANN *et al.* 2007). **Red List status:** –.

***Rhyparochromus vulgaris* (Schilling, 1829)**

Material examined. Petrůvka, U Petrůvky NM (14), 13.v.–3.vi.2008, Mt, 4 ♂♂, 25.viii.–23.ix.2008, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nedašov, Jalovcová stráň NR (54), 28.iii.2006, 1 ♂, O. Konvička lgt. (PKPC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 1 ♂ 3 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 22.ix.2007, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 22.ix.2007, 1 ♀, P. Kment lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 19.viii.2002, 1 ♀, P. Kment lgt. (PKPC); 14.vii.–5.viii.2008, Mt, 3 ♂♂ 3 ♀♀, 5.–26.viii.2008, Mt, 13 ♂♂ 15 ♀♀, 26.viii.–24.ix.2008, Mt, 15 ♂♂ 10 ♀♀, 24.ix.–27.x.2008, Mt, 10 ♂♂ 9 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Radějovka brook valley below Čertoryje (198), 17.viii.2000, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 8.iv.–5.v.2000, pt, 1 ♂, P. Bezděčka lgt. (PKPC). Hrubá Vrbka, football ground (211), 28.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 24.viii.–14.ix.2009, Mt, 2 ♂♂ 1 ♀, 14.ix.–20.x.2009, Mt, 5 ♀♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 24.viii.–14.ix.2009, Mt, 2 ♂♂, 14.ix.–22.x.2009, Mt, 3 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 6.iv.–12.v.2009, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 7.ix.–21.x.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 2.–22.viii.2007, Mt, 1 ♀, Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: European and Ponto-Mediterranean (from Israel to Transcaucasia and Turkmenistan); introduced to the USA. **Biology and habitat:** A seed predator. Epigeic, euryecious, occurring also in ruderal sites and often entering buildings to overwinter. Very common (STEHLÍK & VAVŘINOVÁ 1998b, WACHMANN *et al.* 2007). **Red List status:** –.

***Scolopostethus affinis* (Schilling, 1829)**

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrov, Chorvátky (185), 19.viii.2002, 1 ♂ (ma), P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 7.iv.–5.v.2010, Mt, 1 ♀ (ma), P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, Vojšické louky meadows (207), under vegetation on shores of a brooklet, 17.iv.2000, 1 ♀ (ma), P. Kment & I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 27.vii.2000, 2 ♀♀ (ma), I. Malenovský lgt. (PKPC). Velká nad Veličkou, below Zahrady pod Hájem NNR (221), 18.iv.2000, 2 ♀♀ (ma), P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 18.iv.2000, 2 ♀♀ (ma), P. Kment & I. Malenovský lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 24.v.–15.vi.2010, Mt, 1 ♂ (ma), 15.vi.–13.vii.2010, Mt, 1 ♂ (ma), P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the southern part of the area. **General distribution:** West Eurosiberian, extending to the Near East, and Central Asiatic. **Biology and habitat:** A seed predator (with some preference for *Urtica*). Epigeic, euryecious, generally preferring nutrient-rich habitats. Common (STEHLÍK & VAVŘINOVÁ 1998a, WACHMANN *et al.* 2007). **Red List status:** –.

***Scolopostethus decoratus* (Hahn, 1833)**

Material examined. Svatý Štěpán, Chladný vrch NM (93), 6.iv.–5.v.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 7.iv.–5.v.2010, Mt, 1 ♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, Výzkum hill, restored grassland (208), 2.v.2001, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (KHMC, PKPC). Javorník, Jazevčí NNR (232), 6.iv.–12.v.2009, Mt, 1 ♀, P. Chvojka, J. Ježek

& J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 7.ix.–21.x.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, rare. **General distribution:** West Palaearctic. **Biology and habitat:** A seed predator, often associated with *Calluna*, *Erica*, and *Vaccinium*. Epigeic, euryecious, often collected in gardens, parks, on dry rocky slopes and in heathland. Quite rare (STEHLÍK & VAVŘINOVÁ 1998a, WACHMANN *et al.* 2007). **Red List status:** –.

Scolopostethus grandis Horváth, 1880

Material examined. Nová Lhota, Vápenky, left-side tributary of Velička river (252), 22.vi.–15.vii.2009, Mt, 1 ♀ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 12.iv.–8.v.2007, Mt, 1 ♂ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 12.iv.–8.v.2007, Mt, 1 ♀ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Collected only with Malaise traps in the southern part of the area, rare. **General distribution:** European, extending to Cyprus. **Biology and habitat:** A seed predator. In leaf litter and under moss in forests, at forest margins, hedges, bases of trees, in dry to humid conditions. Rare (STEHLÍK & VAVŘINOVÁ 1998a, WACHMANN *et al.* 2007). **Red List status:** –.

Comments. In Moravia known from only two sites in the south: a dry grassland and an abandoned orchard in Těšánky (towards Zdounky, 6769) and the cemetery in Vranov u Brna (6665) (STEHLÍK & VAVŘINOVÁ 1998a).

Scolopostethus puberulus Horváth, 1887

(EN)

Material examined. Březová, Kalábová NM (137), 4.vii.2001, 1 ♀ (sma), P. Kment & I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 1 ♀ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 12.iv.–8.v.2007, Mt, 1 ♂ (ma), 28.v.–18.vi.2007, Mt, 1 ♂ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Collected only in the central and southern parts of the area, rare. **General distribution:** European. **Biology and habitat:** A seed predator. Epigeic, euryecious, with preference to humid environments (e.g. in wet *Sphagnum*), although found in moss on dry places under leaf litter as well (STEHLÍK & VAVŘINOVÁ 1998a, WACHMANN *et al.* 2007). **Red List status:** Endangered.

Comments. Very rare in Moravia, known only from the warmest southern part of the region (STEHLÍK & VAVŘINOVÁ 1998a).

Scolopostethus thomsoni Reuter, 1875

Published records. STEHLÍK & VAVŘINOVÁ (1998a): Slavičín (6973); Brumov – Bylnice (6974); Horní Němčí (7071); Radějov (7170).

Material examined. Luhačovice, forest along Štávnice river (3), sifting of moss, 10.xi.2011, 3 ♀♀ (br), M. Mantič lgt. (MMHC). Petrůvka, U Petrůvky NM (14), 6.viii.1999, 1 ♀ (ma), P. Kment lgt. (PKPC). Valašské Klobouky, Suchý vrch hill (24), in litter, 21.v.1999, 1 ♂ 2 ♀♀ (br), M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Brumovka brook valley (29), 19.v.1999, 1 ♂ (ma) 3 ♀♀ (br), P. Kment & I. Malenovský lgt.

True bugs (Hemiptera: Heteroptera)

(PKPC). Valašské Klobouky, Dobšená NM (31), 22.v.1999, 1 ♂ 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 22.v.1999, 1 ♂ (ma), P. Kment & I. Malenovský lgt. (PKPC). Poteč, Ploštiny NR (42), 4.vii.1999, 2 ♀♀ (br), P. Kment & I. Malenovský lgt., 24.viii.2002, 1 ♂ (br), P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 14.viii.2006, 1 ♀ (br), P. Kment lgt. (PKPC). Nedašov, Hrušová dolina valley (53), 3.vii.1999, 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 3.vii.1999, 2 ♀♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54) and along road to Nedašov (52), 10.ix.1999, 1 ♂ (br), I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Kaňoury NM (55), 16.viii.2006, 1 ♂ 1 ♀ (br), P. Kment lgt. (PKPC). Bylnice, railway station environs (83), 1.vii.1999, 2 ♂♂ (br), P. Kment & M. Omesová lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 30.vi.2004, 2 ♂♂ (br), 1.ix.2004, 1 ♂ 1 ♀ (br), I. Malenovský lgt. (PKPC). Korytná, Březí (113), 5.vii.2001, 1 ♂ (ma) 1 ♂ 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 24.v.2009, 2 ♂♂ (br), P. Baňář lgt. et det. (MMBC). Louka, Hloží NR (106), 24.iv.1999, 4 ♂♂ 2 ♀♀ (br), M. Horský lgt. (MUBC, PKPC). Komňa, Lom Rasová NM (128), 9.iv.2000, 1 ♀ (br), M. Horský lgt. (PKPC). Lopeník, U Zvonice NM (155), 24.vii.2005, 1 ♂ (br), I. Malenovský lgt. (PKPC). Lopeník, Hrubý Mechnáč (157), 29.iv.2000, 1 ♂ 1 ♀ (br), M. Horský lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 27.vi.2004, 1 ♂ (br), I. Malenovský lgt. (PKPC). Žitková (163), 11.vi.1999, 1 ♂, K. Hradil lgt. et det. (KHMC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♀ (br), P. Kment lgt. (PKPC). Vápenice, V Krátkých (170), 6.vii.2001, 1 ♂ (br), P. Kment & I. Malenovský lgt. (PKPC). Výškovce, Pod Hřibovňou NM (176), 28.vi.2004, 1 ♂ (br), I. Malenovský lgt. (PKPC). Výškovce, Ve Vlčí NR (177), 22.v.2005, 1 ♀ (br), I. Malenovský lgt. (PKPC). Výškovce, Bošačky, cattle pasture (179), 21.v.2005, 1 ♀ (ma), I. Malenovský lgt. (PKPC). Radějov, Dolní Mlýn (195), 11.vii.1998, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 8.vii.2000, 1 ♂ 1 ♀ (br), 17.viii.2000, 1 ♂ (ma) 1 ♂ 3 ♀♀ (br), P. Kment lgt. (PKPC). Malá Vrbka, Vojšické louky meadows (207), 17.iv.2000, 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 25.v.2000, 1 ♀ (ma), I. Malenovský lgt., 2.v.2001, 1 ♀ (ma), P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 7.iv.–5.v.2010, Mt, 1 ♀ (ma), P. Chvojka & M. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 6.v.2000, 1 ♂ (br), 19.vi.2000, 1 ♀ (ma), I. Malenovský lgt., 18.viii.2000, 1 ♂ 1 ♀ (br), P. Kment lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 6.iv.–12.v.2009, Mt, 1 ♂ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Hryzlácké Mlýny (246), 16.ix.–22.x.2009, Mt, 1 ♀ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Vápenky / Strání, Mt. Velká Javořina (255), forest, 12.vii.1998, 1 ♂ (br), M. Horský lgt. & J. Nerudová (PKPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 7.iv.–5.v.2010, Mt, 1 ♂ 1 ♀ (ma), P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 9.vii.1998, 1 ♀ (br), P. Kment lgt. (PKPC); 12.iv.–8.v.2007, Mt, 1 ♀ (ma), 8.–28.v.2007, Mt, 2 ♀♀ (ma), 28.v.–18.vi.2007, Mt, 1 ♂ (ma), 18.vi.–9.vii.2007, Mt, 1 ♂ (ma), P. Chvojka, J. Ježek & J. Macek lgt., 24.v.–15.vi.2010, Mt, 3 ♀♀ (ma), P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 12.iv.–8.v.2007, Mt, 1 ♀ (ma), 8.–28.v.2007, Mt, 1 ♂ 1 ♀ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 7.iv.–5.v.2010, Mt, 1 ♂ 1 ♀ (ma), P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 3.–23.vi.2009, Mt, 1 ♀ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Holarctic (Eurosiberian and Nearctic). **Biology and habitat:** A seed predator; usually found on *Urtica dioica* or under it in litter. Euryecious, e.g. in forest clearings, at forest margins and in ruderal sites. Very common (STEHLÍK & VAVŘINOVÁ 1998a, WACHMANN *et al.* 2007). **Red List status:** –.

Sphragisticus nebulosus (Fallén, 1807)

Material examined. Malá Vrbka, Výzkum hill, restored grassland (208), 16.xi.1999–4.iii.2000, pt, 1 ♂, 4.iii.–8.iv.2000, pt, 2 ♀♀, 8.iv.–5.v.2000, pt, 41 ♂♂ 28 ♀♀ (1 couple in copula), P. Bezděčka lgt., 25.v.2000, 1 ♀, P. Kment lgt., 27.vii.2000, 2 ♂♂ 8 ♀♀, P. Kment & I. Malenovský lgt., 4.viii.2000, 1 ♂ 2 ♀♀, 16.viii.2000, 1 ♂ 2 ♀♀, P. Kment lgt., 20.viii.–5.ix.2000, pt, 25 ♂♂ 27 ♀♀ 6 L5, P. Bezděčka lgt., 2.v.2001, 1 ♀, I. Malenovský lgt., 28.vii.2001, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., 27.vi.2002, 1 ♀, I. Malenovský

Igt. (PKPC). Javorník, Machová NR (259), 18.vi.–9.vii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek Igt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 12.iv.–8.v.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek Igt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Collected only in three sites in the southern part of the area, rare. **General distribution:** Holarctic (Eurosiberian and Nearctic). **Biology and habitat:** A seed predator. Epigeic, in sunny and dry habitats, especially on sands and in ruderal vegetation along roads, in fields and at forest margins. Common (STEHLÍK & VAVŘÍNOVÁ 1998b, WACHMANN *et al.* 2007). **Red List status:** –.

***Stygnocoris cimbricus* (Gredler, 1870) (NT)**

= *Stygnocoris pygmaeus* auct., nec R. F. Sahlberg, 1848

Material examined. Nedašov, Jalovcová stráž NR (54), 1.ix.2004, 3 ♀♀, I. Malenovský Igt., 16.viii.2006, 3 ♂♂ 2 ♀♀, P. Kment Igt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only in one site in the northern part of the area. **General distribution:** Eurosiberian, extending to Anatolia. **Biology and habitat:** A seed predator. Epigeic, euryecious, preferring dry to wet heathland with *Calluna*, *Erica* or *Vaccinium*, but mostly found in plant detritus in sunny habitats without any Ericaceae plants in southern Moravia. Quite rare (STEHLÍK & VAVŘÍNOVÁ 1998a, WACHMANN *et al.* 2007). **Red List status:** Near-threatened.

Comments. Until recently, *S. cimbricus* has been incorrectly referred to as *S. pygmaeus* (F. Sahlber, 1848) in the literature (see STEHLÍK & VAVŘÍNOVÁ 1998a).

***Stygnocoris fuliginus* (Geoffroy, 1785)**

Material examined. Nedašov, Jalovcová stráž NR (54), 20.v.1999, 1 ♂, P. Kment & I. Malenovský Igt. (PKPC). Horní Němčí, Drahy NR (117), 24.vii.–22.viii.2003, pt, 1 ♀, K. Resl Igt. (PKPC). Horní Němčí, Vinohrádky (121), 22.v.–22.vi.2003, pt, 2 ♂♂, K. Resl Igt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 27.vii.2000, 1 ♂, 2.v.2001, 3 ♀♀, I. Malenovský Igt., 28.vii.2001, 2 ♂♂, P. Kment Igt. (PKPC). Hrubá Vrbka, football ground (211), 8.vii.2000, 1 ♂, P. Kment Igt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** European and Holomediterranean. **Biology and habitat:** A seed predator. Epigeic, euryecious, in open and half-shaded, quite dry habitats. Common (STEHLÍK & VAVŘÍNOVÁ 1998a, WACHMANN *et al.* 2007). **Red List status:** –.

***Stygnocoris rusticus* (Fallén, 1807)**

Published records. STEHLÍK & VAVŘÍNOVÁ (1998a): Valašské Klobouky (6874); Slavičín (6973); Bylnice (6974); Sidonie (6974). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 13.–16.viii.2007, ypt, 1 ♂ (br), J. Ježek Igt. (NMPC). Nedašov, Jalovcová stráž NR (54) and along road to Nedašov (52), 10.ix.1999, 1 ♂ 2 ♀♀ (br), I. Malenovský & T. Vymyslický Igt. (PKPC). Nedašov, Pod Cigánem NM (91), 1.ix.2004, 1 ♂ 1 ♀ (ma) 1 ♂ (br), I. Malenovský Igt. (PKPC). Suchoy, Kazivec brook valley (116), 9.ix.1998, 1 ♂ (ma), I. Malenovský & M. Omesová Igt. (PKPC). Horní Němčí, Drahy NR (117), 21.ix.2001, 1 ♂ (br) 2 ♀♀ (ma), P. Kment Igt. (PKPC). Horní Němčí, Vinohrádky (121), 22.vi.–24.vii.2003, pt, 1 ♂ (br), K. Resl Igt. (PKPC). Březová,

True bugs (Hemiptera: Heteroptera)

Cestiska NM (136), 2.x.2007, 2 ♀♀ (br), O. Konvička lgt. (NMPC). Lopeník, U Zvonice NM (155), 26.vi.–26.vii.2005, pt, 1 ♂ 1 ♀ (br), K. Resl lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 25.ix.2004, 1 ♀ (br), I. Malenovský lgt., 26.vi.–26.vii.2005, pt, 1 ♀ (ma), 26.vii.–26.viii.2005, pt, 1 ♂ (ma) 1 ♀ (br), 26.viii.–28.ix.2005, pt, 1 ♀ (br), K. Resl lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 22.ix.2007, 1 ♀ (br), P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 22.ix.2007, 1 ♀ (br), P. Kment lgt. (PKPC). Vyškovec, Pod Hřibovňou NM (176), 3.ix.2005, 1 ♂ 2 ♀♀ (br, 1 ♂ 1 ♀ in copula) 1 ♀ (ma), I. Malenovský lgt. (PKPC). Vyškovecké Bošačky, cattle pasture (179), 3.ix.2005, 1 ♂ (br), I. Malenovský lgt. (PKPC). Kněždub, Čertoryje NNR (202), 4.x.2002, 1 ♂ (br), P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 16.viii.2000, 1 ♀ (br), P. Kment lgt., 28.vii.2001, 1 ♀ (ma), P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 18.viii.2000, 1 ♀ (br), P. Kment lgt. (PKPC); 15.vii.–6.viii.2009, Mt, 1 ♀ (ma), P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 6.viii.–8.ix.2005, pt, 1 ♀ (ma), K. Resl lgt. (PKPC). Suchovské Mlýny, meadow (227), 1.x.2004, 1 ♀ (br), I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 10.ix.2000, 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Javorník, railway station (237), 10.ix.1998, ♂ (br), I. Malenovský & M. Omesová lgt. (PKPC). Javorník, village (239), 8.viii.2001, 1 ♂, P. Kment lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 23.ix.2001, 1 ♂ 2 ♀♀ (br), P. Kment lgt. (PKPC). Javorník, Machová NR (259), 9.vii.–2.viii.2007, Mt, 1 ♀ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 9.vii.–2.viii.2007, Mt, 1 ♀ (ma), 2.–22.viii.2007, 1 ♂ (ma), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 21.ix.2001, 1 ♀ (ma) 1 ♂ 3 ♀♀ (br), I. Malenovský lgt. (PKPC). Strání, Záhumenice NM (266), 20.vii.2002, 1 ♀ (br), I. Malenovský lgt., 22.viii.–27.ix.2003, pt, 1 ♂ 1 ♀ (br), K. Resl lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Holarctic (Eurosiberian and Nearctic). **Biology and habitat:** A seed predator. Epigeic, euryecious, in open and half-shaded habitats, tolerant of dry or humid conditions. Common (STEHLÍK & VAVŘINOVÁ 1998a, WACHMANN *et al.* 2007). **Red List status:** –.

Stygnocoris sabulosus (Schilling, 1829)

Published records. STEHLÍK & VAVŘINOVÁ (1998a): Bylnice (6974); Sidonie (6974). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Javorůvky NR (32), 10.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Poteč, Ploščíny NR (42), 24.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 14.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 1.ix.2004, 1 ♂, I. Malenovský lgt. (PKPC). Bylnice, Lazy NR and environs (82), 12.ix.1999, 2 ♀♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 1.ix.2004, 1 ♂ 3 ♀♀, 5.x.2004, 7 ♀♀, 6.ix.2005, 1 ♂, I. Malenovský lgt. (PKPC). Lopeník, U Zvonice NM (155), 26.viii.–28.ix.2005, pt, 2 ♂♂, K. Resl lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 22.ix.2007, 1 ♂, P. Kment lgt. (PKPC). Vyškovec, Pod Hřibovňou NM (176), 25.ix.2004, 1 ♀, 24.vii.2005, 1 ♂, P. Kment lgt. (PKPC). Vyškovecké Bošačky, cattle pasture (179), 25.ix.2004, 1 ♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 26.viii.–24.ix.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Čertoryje NNR (202), 20.ix.2001, 1 ♀, P. Kment lgt. (PKPC). Vápenky, Porážky NNR (247), 9.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt. (PKPC). Strání, Javorina NNR, meadow (270), 6.–24.viii.2009, Mt, 2 ♂♂, 24.viii.–17.ix.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** Holarctic (Holopalaearctic and Nearctic). **Biology and habitat:** A seed predator. Epigeic, euryecious, in open and slightly shaded habitats, dry to humid. Common (STEHLÍK & VAVŘINOVÁ 1998a, WACHMANN *et al.* 2007). **Red List status:** –.

***Taphropeltus hamulatus* (Thomson, 1870)**

Published record. STEHLÍK & VAVŘINOVÁ (1998a): Luhačovice (68–6972).

Material examined. Louka, Hloží NR (106), 24.iv.1999, 1 ♂, M. Horsák lgt. (PKPC). Horní Němčí, Drahy NR (117), 21.vii.2002, 1 ♂, I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 27.vii.2000, 1 ♂ 3 ♀♀, I. Malenovský lgt. (KHMC, PKPC); 2.v.2001, 1 ♂ 6 ♀♀, 22.vi.2001, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., 28.vii.2001, 1 ♀, I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 2.v.2001, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 18.iv.2000, 2 ♂♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (KHMC, PKPC); 24.vii.2000, 1 ♂, I. Malenovský lgt. (PKPC); 15.vii.–6.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 3.v.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 26.v.2005, 1 ♂, I. Malenovský lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 7.iv.–12.v.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Vápenky, Velička brook valley below Hubertova bouda hut (253), 21.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Javorník, Machová NR (259), 12.iv.–8.v.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 24.v.2001, 2 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Strání, Záhumenice, cattle pasture (265), 21.ix.2001, 1 ♂, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common in the southern part of the area, rare elsewhere. **General distribution:** European, extending to Anatolia, Transcaucasia and Israel. **Biology and habitat:** A seed predator. Epigeic, euryecious, with preference to relatively humid habitats covered with trees. Common (STEHLÍK & VAVŘINOVÁ 1998a, WACHMANN *et al.* 2007). **Red List status:** –.

***Trapezonotus (Gnopherus) anorus* (Flor, 1860)**

Material examined. Suchovské Mlýny, sheep pasture (226), 3.iv.–6.v.2005, pt, 5 ♂♂ 1 ♀ (br), 6.v.–4.vi.2005, pt, 2 ♀♀ (br), K. Resl lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only with pitfall traps in one site in the southern part of the area. **General distribution:** Eurosiberian. **Biology and habitat:** A seed predator. Epigeic, in dry to humid, open to partly shaded habitats on various substrates (sands, heathland, peat bogs, pine forests). A boreo-montane species preferring medium and high altitudes, generally rare (STEHLÍK & VAVŘINOVÁ 1998b, WACHMANN *et al.* 2007). **Red List status:** –.

***Trapezonotus (Trapezonotus) arenarius arenarius* (Linnaeus, 1758)**

Material examined. Radějov, Žerotín NM (188), 4.–26.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.ix.–20.x.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only with Malaise traps at two sites in the southern part of the area. **General distribution:** Eurosiberian, extending to Anatolia and Transcaucasia. **Biology and habitat:** A seed predator. Epigeic, on xerothermic, sandy, open to half-shaded habitats, including ruderal sites. Common (STEHLÍK & VAVŘINOVÁ 1998b, WACHMANN *et al.* 2007). **Red List status:** –.

***Trapezonotus (Trapezonotus) dispar dispar* Stål, 1872**

Material examined. Nedašov, Jalovcová stráň NR (54), 16.viii.2006, 1 ♂, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only at one site in the northern part of the area. **General distribution:** West Eurosiberian, extending to Maghreb, Anatolia and Transcaucasia. **Biology and habitat:** A seed predator. Epigeic, in leaf litter at forest margins, in clearings and open woodland, more rarely also in sand pits, river valleys and on grassy slopes, from lowlands to mountains. Common (STEHLÍK & VAVŘÍNOVÁ 1998b, WACHMANN *et al.* 2007). **Red List status:** –.

***Tropistethus holosericeus* (Scholz, 1846)**

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Radějov, Žerotín NM (188), 5.–26.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Hryzlácké Mlýny (246), 15.vii.–4.viii.2009, Mt, 1 ♂, 16.ix.–22.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 8.–28.v.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 28.v.–18.vi.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Collected in the central and southern parts of the area, quite rare. **General distribution:** West Eurosiberian, extending to Anatolia, Transcaucasia and Kazakhstan. **Biology and habitat:** A seed predator. Epigeic, in xerothermic localities on various substrates, in lowlands as well as hilly landscapes. Quite rare (STEHLÍK & VAVŘÍNOVÁ 1998a, WACHMANN *et al.* 2007). **Red List status:** –.

Family PIESMATIDAE

***Piesma maculatum* (Laporte, 1833)**

Published records. STEHLÍK & VAVŘÍNOVÁ (1987): Bánov (7072); Radějov (7170). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 3.–23.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 19.v.1999, 2 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 22.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Brumov, Uhlíčky (44), 28.vii.2005, 1 ♂, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráň NR (54), 20.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, meadow E of Jalovcová stráň NR (59), 30.vi.2004, 2 ♀♀, I. Malenovský lgt. (PKPC). Petrůvka, Kladenka brook valley (64), 13.v.–3.vi.2008, Mt, 2 ♂♂, 3.–23.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Bylnice, railway station environs (83), 11.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 30.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Horní Němčí, Hornoněmčanský háj forest (108), 10.ix.2002, 1 ♀, I. Malenovský lgt. (PKPC). Komňa, Lom Rasová NM (128), 5.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 2 ♀♀, 9.–29.v.2007, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Vyškovec, Pod Hřibovňou NM (176), 28.vi.2004, 1 ♂, I. Malenovský lgt. (PKPC). Vyškovecké Bošačky, cattle pasture (179), 21.v.2005, 1 ♀, I. Malenovský lgt. (PKPC). Radějov, Žerotín NM (188), 11.vii.1998, 1 ♀, P. Kment lgt. (PKBC). Malá Vrbka, Výzkum hill, restored grassland (208), 16.xi.1999–4.iii.2000, pt, 2 ♂♂ 2 ♀♀, 4.iii.–8.iv.2000, pt, 3 ♂♂ 1 ♀, 8.iv.–5.v.2000, pt, 2 ♂♂ 1 ♀, P. Bezděčka lgt., 17.iv.2000, 1 ♀, P. Kment & I. Malenovský lgt., 5.v.2000, 152 ♂♂ 159 ♀♀, I. Malenovský lgt., 25.v.2000,

19 ♂♂ 19 ♀♀, P. Kment & I. Malenovský lgt., 18.vi.2000, 1 ♂ 1 ♀, I. Malenovský lgt., 27.vii.2000, 9 ♂♂ 14 ♀♀, P. Kment & I. Malenovský lgt., 16.viii.2000, 1 ♂ 2 ♀♀, P. Kment lgt., 1.x.2000, 1 ♂ 2 ♀♀, 2.v.2001, 122 ♂♂ 185 ♀♀, 22.vi.2001, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., 28.vii.2001, 1 ♀, P. Kment lgt., 27.vi.2002, 1 ♀, I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 18.vi.2000, 1 ♂, P. Kment lgt. (PKPC). Radějov, Měsíční údolí valley (214), 16.viii.2009, along road to Radějov, 1 ♂, P. Kment lgt. (PKPC); 10.ix.2011, 1 ♂ 1 ♀, J. Ch. Vávra lgt. (OMOC). Radějov, Kútky NR (217), 8.ix.1998, 1 ♀, I. Malenovský & M. Omesová lgt. (PKPC). Velká nad Veličkou, old cemetery (223), 18.viii.2000, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 13.vii.1998, 1 ♀, P. Kment lgt. (PKPC); 30.vi.2008, 1 ♂, E. Ezer lgt. (EEZC). Javorník, Jazevčí NNR (232), 6.iv.–12.v.2009, Mt, 1 ♂, 12.v.–2.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, towards Suchovské Mlýny, Velička river valley (233), 6.v.2000, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, village (239), 8.viii.2001, 1 ♂ 1 ♀ (br), P. Kment lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 6.iv.–12.v.2009, Mt, 3 ♂♂ 4 ♀♀, 12.v.–2.vi.2009, Mt, 1 ♂, 2.–25.vi.2009, Mt, 1 ♀, 15.vii.–5.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 2 ♂♂, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 23.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 3.–22.vi.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Vápenky, Porážky NNR (247), 15.vii.1998, 1 ♂, I. Malenovský & M. Omesová lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 7.iv.–5.v.2010, Mt, 1 ♂ 1 ♀, 24.v.–15.vi.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 8.–28.v.2007, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 8.–28.v.2007, Mt, 2 ♂♂, 18.vi.–9.vii.2007, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Holopalaeartic. **Biology and habitat:** On Chenopodioideae (especially *Atriplex* and *Chenopodium*). Euryecious, often in ruderal sites. Very common (STEHLÍK & VAVŘINOVÁ 1987, WACHMANN *et al.* 2007). **Red List status:** –.

Family BERYTIDAE

Berytinus (Berytinus) clavipes (Fabricius, 1775)

Published records. STEHLÍK & VAVŘINOVÁ (1990): Horní Němčí (7071); Kněždub (7170); Radějov (7170); Javorník (7171); Nová Lhota (7171).

Material examined. Brumov, Uhličky (44), 5.x.2004, 1 ♀, I. Malenovský lgt., 28.vii.2005, 1 ♂ 5 ♀♀, 4.ix.2005, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 14.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, meadow (48), 19.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráň NR (54), 20.v.1999, 1 ♂, P. Kment & I. Malenovský lgt., 1.ix.2004, 1 ♀, I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 16.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♂ 2 ♀♀, 18.viii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 1.ix.2004, 1 ♂ 2 ♀♀, 5.x.2004, 1 ♂, I. Malenovský lgt. (PKPC). Horní Němčí (110), 5.ix.1999, 1 ♂ 1 ♀, J. Strojček lgt., O. Balvín det., P. Kment revid. (OBPC). Horní Němčí, reservoir in village (111), under *Ononis spinosa* on the banks, 21.ix.2001, 1 ♀, P. Kment lgt. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♀, P. Kment & I. Malenovský lgt., 13.viii.2001, on *Ononis spinosa*, 1 ♀ 1 L, P. Kment lgt. (PKPC). Strání, Obecnice hill, S slope (146), 10.ix.1998, 1 ♀, I. Malenovský lgt. (PKPC). Vyškovské Bošáčky, meadow and orchard (180), 3.ix.2004, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Kněždub, Kněždubský háj forest (197), 17.vi.2000, 1 ♀, 8.vii.2000, 1 ♀, 17.viii.2000, 1 ♂ 2 ♀♀ (br), P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 5.v.2000, 1 ♂ (ma), I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 18.iv.2000, 3 ♂♂, P. Kment & I. Malenovský lgt., 19.vi.2000, 1 ♀, 18.viii.2000, 2 ♂♂ 1 ♀, P. Kment lgt., 9.–10.ix.2000, 1 ♀, P. Kment & I. Malenovský lgt., 17.ix.2004, 1 ♂, M. Horsák lgt. (PKPC). Suchovské Mlýny, meadow (227), 27.vii.2005, 1 ♂, 1.ix.2005, 1 ♂, I. Malenovský lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 16.viii.2004, 1 ♀, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, loampit (235), 24.v.2002, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 3.v.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Eurosiberian, extending to Anatolia and Transcaucasia. **Biology and habitat:** On Fabaceae, especially *Ononis spinosa*. Epigeic, in open, warm localities such as dry grassland, meadows and pastures. Common (STEHLÍK & VAVŘÍNOVÁ 1990, WACHMANN *et al.* 2007). **Red List status:** –.

***Berytinus (Berytinus) minor minor* (Herrich-Schaeffer, 1835)**

Published records. STEHLÍK & VAVŘÍNOVÁ (1990): Štítná nad Vláří (towards Popov) (6973). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 13.v.–3.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Brumov, Uhličky (44), 28.vii.2005, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55) and surrounding pastures (53), 20.v.1999, 1 ♂ (br), P. Kment & I. Malenovský lgt. (PKPC). Nedašov, meadow E of Jalovcová stráž NR (59), 6.ix.2005, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Brumov, Kloboucká street (76), 28.vii.2005, 1 ♀, P. Kment lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 1.ix.2004, 3 ♂♂ 2 ♀♀, 5.x.2004, 2 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Lopeník, U Zvonice NM (155), 16.iv.–20.v.2005, pt, 1 ♀, K. Resl lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 21.v.2005, 1 ♂, I. Malenovský lgt., 3.ix.2005, 1 ♂, P. Kment lgt. (PKPC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♀, 22.ix.2007, 1 ♂, P. Kment lgt. (PKPC). Vyškovské Bošačky, meadow and orchard (180), 24.vii.2005, 1 ♀, P. Kment lgt., 3.ix.2004, 2 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 9.ix.–22.x.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, Výzkum hill, restored grassland (208), 5.v.2000, 1 ♂, 2.v.2001, 1 ♂, 18.v.2002, 1 ♂, I. Malenovský lgt. (PKPC). Velká nad Veličkou, below Zahrady pod Hájem NNR (221), 18.iv.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Suchovské Mlýny, sheep pasture (226), 6.viii.–8.ix.2005, pt, 1 ♂, K. Resl lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 23.vi.2004, 1 ♂, I. Malenovský lgt. (PKPC). Trnovský Mlýn, meadow (229), 27.vii.2005, 2 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Jazevěčí NNR, left-side tributary of Velička river (241), 6.iv.–12.v.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 7.ix.2002, 1 ♂, 2.ix.2004, 1 ♂, 26.v.2005, 1 ♀, I. Malenovský lgt. (PKPC). Strání, Záhumenice, cattle pasture (265), 20.vii.2002, 1 ♂, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Holarctic (Eurosiberian and Nearctic). **Biology and habitat:** On Fabaceae, but also on other plants. Epigeic, eurycious, in dry to slightly humid localities (e.g. aeolian sands, dry sunny slopes, lowland forests, peat bogs). Common (STEHLÍK & VAVŘÍNOVÁ 1990, WACHMANN *et al.* 2007). **Red List status:** –.

***Berytinus (Lizinus) crassipes* (Herrich-Schaeffer, 1835)**

Material examined. Nedašov, Pod Cigánem NM (91), 28.vii.2005, 1 ♀, I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 28.vii.2001, 1 ♂, P. Kment lgt. (PKPC). Velká nad Veličkou, old cemetery (223), lawn between old and new cemetery, 9.ix.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** Eurosiberian. **Biology and habitat:** Mostly on *Cerastium*, but recorded also under *Erodium*, *Calluna*, *Erica*, and Poaceae. Epigeic, preferring warm and dry localities with sparse, patchy vegetation. Widespread, not rare (STEHLÍK & VAVŘÍNOVÁ 1990, WACHMANN *et al.* 2007). **Red List status:** –.

***Berytinus (Lizinus) signoreti* (Fieber, 1859)**

(VU)

Material examined. Malá Vrbka, Výzkum hill, restored grassland (208), 17.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 18.iv.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected in two xerothermic localities in the southern part of the area. **General distribution:** European, extending to Anatolia and Cyprus. **Biology and habitat:** On Fabaceae (e.g. *Lotus corniculatus*, *Hippocrepis*, *Ononis*, *Medicago*), but also on *Thymus* or *Artemisia*. Epigeic, in xerothermic localities (especially on sandy or rocky substrates), avoiding mountains. Rare (STEHLÍK & VAVŘÍNOVÁ 1990, WACHMANN *et al.* 2007). **Red List status:** Vulnerable.

***Berytinus (Lizinus) striola* (Ferrari, 1874)**

(EN)

Material examined. Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.ix.–20.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected in one xerothermic locality in the southern part of the area. **General distribution:** Holomediterranean, extending to central Europe. **Biology and habitat:** On *Coronilla varia* and possibly also other Fabaceae. Epigeic, in xerothermic localities especially on rocky substrates, missing in the mountains. Rare (STEHLÍK & VAVŘÍNOVÁ 1990, KMENT *et al.* 2005, WACHMANN *et al.* 2007). **Red List status:** Endangered.

***Gampsocoris culicinus culicinus* Seidenstücker, 1948**

(NT)

Published record. STEHLÍK & VAVŘÍNOVÁ (1990): Horní Němčí, Lesná hill (123).

Material examined. Nedašov, Kaňoury NM (55), 20.v.1999, 1 ♀, P. Kment & I. Malenovský lgt., 17.vi.2006, 2 ♂♂ 3 ♀♀, I. Malenovský lgt., 16.viii.2006, on *Stachys alpina*, 4 ♂♂ 5 ♀♀ 2 L5, P. Kment lgt. (PKPC). Poteč, Ploščiny NR (42), 17.viii.2006, 1 ♀ on *Salvia glutinosa*, 2 ♂♂ 1 L on *Stachys sylvatica*, 4 ♂♂ 7 ♀♀ 2 L on *Stachys alpina*, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Královec hill (33), on *Stachys alpina* (3 adults), *Stachys sylvatica* (1 L), *Salvia glutinosa* (1 adult) and *Galeopsis speciosa* (1 L), 17.viii.2006, 2 ♂♂ 5 ♀♀ 2 L, P. Kment lgt. (PKPC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 3.v.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** Eurosiberian, extending to Maghreb. **Biology and habitat:** A polyphagous phytophage, preferring plants with glandulous hairs. Euryecious, in xerothermic as well as humid and half-shaded habitats (e.g. on aeolian sands in lowlands as well as in forest clearings at medium altitudes). Widespread, not rare (STEHLÍK & VAVŘÍNOVÁ 1990, WACHMANN *et al.* 2007). **Red List status:** Near-threatened.

Comments. *Galeopsis speciosa* and *Stachys alpina* are confirmed as host plants of the species.

***Metatropis rufescens* (Herrich-Schaeffer, 1835)**

(NT)

Published records. ROHÁČOVÁ (1992): Luhačovice env. (68–6972). KMENT & BRYJA (2001): Luhačovice, Velká Kamenná hora hill (8); Valašské Klobouky, Bílé potoky NR, brooklet ravine (46); Strání, Klanečnice brook valley above Žabka reservoir (142); Kněždub, Čertoryje NNR (202); Radějov, Pusté deergame enclosure, Návranky crossroad (214); Tvarožná Lhota, valley of Járkovec brook (200); Javorník, top of Machová hill (259); Velká nad Veličkou, Háj hill (231); Strání, Záhumenice NM (266). ŠPRYŇAR & KMENT (2005): Horní Němčí, *Carici pilosae-Carpinetum* [= Hornoněmčanský háj forest] (108); Vyškovecké Bošačky, under the Hribová hill (175); Vápenky, under the Mt. Velká Javořina, beech forest along the road to the Hubertova bouda hut (253); Strání, Záhumenice NR (266).

Material examined. Brumov, Uhlíčky (44), small forest between meadows, on *Circaea* sp., 24.vii.2005, 1 ♂, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 13.–16.viii.2007, ypt, 1 ♂, J. Ježek lgt. (NMPC). Valašské Klobouky, Bílé potoky NR, forest (47), 14.viii.2006, 1 spec., P. Kment observ. Petřůvka, Kladenka brook valley (64), 3.–23.vi.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Sidonie, Sidonie NR (87), 7.iv.–5.v.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 1 ♂, 9.–29.v.2007, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Radějov, Měsíční údolí valley (214), along road to Radějov, on *Circaea* sp., 16.viii.2009, 1 spec., P. Kment observ. Nová Lhota, Vápenky, left-side tributary of Velička river (252), 16.ix.–21.x.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, not rare. **General distribution:** Eurosiberian, extending to Anatolia and Transcaucasia.

Biology and habitat: On *Circaea lutetiana* and *C. alpina*. A characteristic species for forest undergrowth in humid, shaded, nutrient-rich places in floodplain forests, along small streams, in deep valleys in deciduous or mixed forests, as well as in montane scree forests (corresponding to the plant associations of *Alno-Ulmion*, *Fagion* and *Tilio-Acerion*) (KMENT & BRYJA 2001, ŠPRYŇAR & KMENT 2005, WACHMANN *et al.* 2007). **Red List status:** Near-threatened.

Comments. Previously considered to be a rare species (STEHLÍK & VAVŘINOVÁ 1990) but recent surveys confirmed it as a common species in natural or semi-natural forests with adequate host plant populations (KMENT & BRYJA 2001, ŠPRYŇAR & KMENT 2005).

Family PYRRHOCORIDAE***Pyrrhocoris apterus* (Linnaeus, 1758)**

Published record. STEHLÍK & HEISS (2000): Petrov (7169).

Material examined. Valašské Klobouky, Královec hill (33), 17.viii.2006, 1 ♂ (br), P. Kment lgt. (PKPC). Valašské Klobouky, Rybník (36), under *Tilia* sp., 21.v.1999, 1 ♂ (br), M. Horsák & P. Kment lgt. (PKPC). Brumov, Uhlíčky and Kloboucká street (44, 76), 8.v.2004, 1 ♀ (br), P. Kment lgt., 4.v.–3.vi.2005, pt, 1 ♀ (br), K. Resl lgt. (PKPC). Nedašov, village (51), on *Tilia* sp., 17.viii.2006, 1 ♂ (br), P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55), 16.viii.2006, 1 ♀ (br), P. Kment lgt. (PKPC). Bojkovice, railway station (66), under *Tilia* sp., 25.ix.2004, 1 ♀ (br), P. Kment lgt. (PKPC). Bylnice, between Vlára river and Lazy NR (81), 21.v.1999, 1 ♀ (br), I. Malenovský & T. Vymyslický lgt. (PKPC). Bylnice, Lazy NR and environs (82), 21.v.1999, 1 ♀ (br), I. Malenovský & T. Vymyslický lgt., 1.vii.1999, 1 ♂ (br), P. Kment & M. Omesová lgt., 12.ix.1999, 1 ♀ (br), I. Malenovský & T. Vymyslický lgt. (PKPC). Bylnice, railway station environs (83), 21.v.1999, 1 ♀ (br), I. Malenovský & T. Vymyslický lgt. (PKPC). Hluk, Kobyly hlava NM (101), 24.viii.2002, 1 ♀ (br), I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 24.v.2009, 3 ♂♂ 4 ♀♀ (br), 16.viii.2009, 5 ♂♂ 2 ♀♀ (br), P. Baňar lgt. et det. (MMBC). Horní Němčí, village (109), under *Tilia* sp., 13.viii.2001, 1 ♀ (br), P.

Kment lgt. (PKPC). Suchov, Kazivec brook valley (116), 9.ix.1998, 1 ♂ (br), I. Malenovský & M. Omesová lgt. (PKPC). Horní Němčí, Uvezené NM (120), 10.vii.2009, 1 ♀ (ma), Z. Malinka lgt. (ZMOC). Korytná, village (135), 5.vii.2001, 1 ♂ (br, freshly hatched), M. Omesová lgt. (PKPC). Strání, Klanečnice brook valley above Žabka reservoir (142), margin of beech forest, 10.vii.1998, P. Kment observ. Žitková, village (166), 7.viii.1999, 2 ♀♀ (br), P. Kment lgt. (PKPC). Starý Hrozenkov, village (172), 6.vii.2001, 1 ♀ (br), P. Kment lgt. (PKPC). Výškovecké Bošačky, meadow and orchard (180), 8.v.2004, 1 ♀ (br), P. Kment lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♀ (br), P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 11.vii.1998, numerous, 19.viii.2002, numerous, P. Kment observ.; 24.ix.–27.x.2008, Mt, 1 ♀ (br), P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, village (192), 17.vi.2000, 2 ♂♂ 2 ♀♀ in copula, P. Kment observ. Radějov, village (194), under *Tilia cordata*, 11.vii.1998, numerous, 19.viii.2002, numerous, P. Kment observ., 24.ix.2005, 1 ♂ (br), P. Kment lgt. (PKPC). Malá Vrbka, village (206), 19.vi.2000, several spec., P. Kment observ. Malá Vrbka, Výzkum hill, restored grassland (208), 27.vi.2002, 1 ♂ (br), I. Malenovský lgt. (PKPC). Hrubá Vrbka, village (212), 8.vii.2000, several spec., P. Kment observ. (PKPC). Radějov, Veselka hill (215), 11.vii.1998, 1 torso 1 L, P. Kment observ. Velká nad Veličkou, village (222), railway station, around church, 14.v.1998, 1 ♂ 1 ♀ in copula, P. Kment observ., 17.iv.2000, several specimens, under *Tilia* sp. (2 ♂♂ 2 ♀♀ in copula), P. Kment observ., 19.vi.2000, numerous, P. Kment observ. Velká nad Veličkou, old cemetery (223), 18.iv.2000, numerous, P. Kment observ. Velká nad Veličkou, Zahrady pod Hájem NNR (225), 18.iv.2000, 1 ♂ (br), P. Kment & I. Malenovský lgt., 18.viii.2000, 1 ♂ (br), P. Kment lgt., 9.–10.ix.2000, 3 ♂♂ 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 18.viii.2000, 1 ♀ (br), P. Kment lgt., 10.ix.2000, 1 ♂ 7 ♀♀ (br), 3.v.2001, 1 ♂, P. Kment & I. Malenovský lgt., 29.vi.2001, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Javorník, Nad Vápenkou NM (236), 7.ix.2002, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, village (239), linden alley towards cemetery, 8.viii.2001, 1 ♂ (br), P. Kment lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 17.vii.2002, 2 ♀♀ (br), 7.ix.2002, 1 ♀ (br), I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 3.v.2001, 1 ♂ (br), P. Kment & I. Malenovský lgt., 17.vii.2002, 2 ♂♂ (br), 7.ix.2002, 1 ♀ (br), I. Malenovský lgt. (PKPC). Vápenky, Porážky NNR (247), 15.vii.1998, 1 ♂ (br), I. Malenovský & M. Omesová lgt. (PKPC). Javorník, Machová NR (259), 9.vii.1998, 1 ♂ (br), P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area in warm places. **General distribution:** West Palaearctic, extending to Pakistan. **Biology and habitat:** Polyphagous, but with a preference for seeds of *Tilia*, herbaceous Malvaceae, and *Robinia pseudacacia*; it also consumes insect eggs, dead insects, or sucks on vertebrate carrions (STEHLÍK & HEISS 2000, WACHMANN *et al.* 2007, KRISTENOVÁ *et al.* 2011). It inhabits a wide range of warm habitats including urban environments. Widespread and common except for mountain areas (STEHLÍK & HEISS 2000). **Red List status:** –.

Family STENOCEPHALIDAE

Dicranocephalus agilis (Scopoli, 1763)

Material examined. Velašské Klobouky, Suchý vrch hill (25), 21.v.1999, 1 ♀, M. Horsák & P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 28.vii.2001, 1 ♀ (freshly hatched), P. Kment & I. Malenovský lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 7.iv.–12.v.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** West Palaearctic; Mexico (perhaps introduced). **Biology and habitat:** On *Euphorbia*, especially *E. cyparissias*, mostly in xerothermic localities, but occurring at altitudes of up to 1000 m. Quite common (STEHLÍK 1988, WACHMANN *et al.* 2007). **Red List status:** –.

Dicranocephalus medius (Mulsant et Rey, 1870)

(VU)

Material examined. Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 1 ♀, P. Kment lgt. (PKPC). Vyškovecké Bošačky, cattle pasture (179), 21.v.2005, 1 ♀, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only at two xerothermic localities in the central part of the area. **General distribution:** Eurosiberian.

Biology and habitat: On *Euphorbia*, especially *E. esula* and *E. cyparissias*, in forest clearings, on warm and dry slopes, less frequently in other habitats, mostly in hilly landscapes, missing in montane regions. Quite rare (STEHLÍK 1988, WACHMANN *et al.* 2007). **Red List status:** Vulnerable.

Family RHOPALIDAE

Brachycarenum tigrinus Schilling, 1829

Material examined. Blatnička, Milejovské louky meadows (104), 16.viii.2009, 4 ♂♂ 2 ♀♀, P. Baňář lgt. et det. (MMBC). Malá Vrbka, Výzkum hill, restored grassland (208), 2.v.2001, 1 ♂, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only at two xerothermic localities in the southern part of the area. **General distribution:** Holopalaeartic, introduced to North America. **Biology and habitat:** On Brassicaceae, adults suck also on Amaranthaceae, Fabaceae, or Asteraceae. In xerothermic localities, often on sands, including ruderal habitats. Not rare (STEHLÍK & VAVŘINOVÁ 1989, WACHMANN *et al.* 2007). **Red List status:** –.

Corizus hyoscyami hyoscyami (Linnaeus, 1758)

Published records. STEHLÍK & VAVŘINOVÁ (1989): Sidonie (6974); Bylnice (6974); Boršice [u Blatnice] (towards Hluk) (105); Komňa (7072); Lopeník, Mikulčín vrch hill (160); Kněždub (7170); Nová Lhota (7171); Velká nad Veličkou (towards Javorník) (240). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 4.–25.viii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 19.v.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 22.v.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Poteč, Ploštiny NR (42), 1.vi.2002, 1 ♂, I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 14.viii.2006, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráň NR (54), 25.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráň NR (54) and along road to Nedašov (52), 10.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (MUBC). Nedašov, Kaňoury NM (55), 20.v.1999, 1 ♂, P. Kment & I. Malenovský lgt., 17.vi.2006, 2 ♀♀, I. Malenovský lgt., 12.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt., 16.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Pitín (72), 20.vii.1957, 1 ♀, Ondřej lgt. (MMBC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Sidonie, Sidonie NR (87), 7.iv.–5.v.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Blatnička, Milejovské louky meadows (104), 24.v.2009, 2 ♂♂, 16.viii.2009, 2 ♂♂ 1 ♀, P. Baňář lgt. et det. (MMBC). Suchov, Kazivec brook valley (116), 9.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt. (PKPC). Horní Němčí, Drahy NR (117), 10.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt. (PKPC). Žitková, Hutě NR (164), 9.–29.v.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 22.ix.2007, 1 ♂, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 2 ♂♂ 1 ♀, 8.viii.2007, 2 ♀♀, 22.ix.2007, 1 ♀, P. Kment lgt. (PKPC). Vápenice, V Krátkých (170), 6.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Vyškovecké Bošačky, cattle pasture (179), 25.ix.2004, 2 ♂♂, P. Kment lgt., 3.ix.2005, 1 ♂, I. Malenovský lgt. (PKPC). Vyškovecké Bošačky, meadow and orchard (180), 21.v.2005, 1 ♀, I. Malenovský lgt. (PKPC). Tvarožná Lhota, Lučina reservoir (199), 13.v.1998, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 28.vii.2001, 2

♀♀, P. Kment lgt. (PKPC). Malá Vrbka, between village and Výzkum hill (205), 17.viii.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 4.viii.2000, 1 ♀, 16.viii.2000, 1 ♀, P. Kment lgt., 22.x.2000, 1 ♂, P. Kment & I. Malenovský lgt., 18.v.2002, 1 ♂, I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.v.1998, 1 ♀, 13.vii.1998, 1 ♀, P. Kment lgt., 24.vii.2000, 1 ♂, I. Malenovský lgt., 9.–10.ix.2000, 1 ♂ 3 ♀♀ (1 ♀ freshly hatched), P. Kment & I. Malenovský lgt. (PKPC); 17.ix.2004, 1 spec., M. Horsák lgt. (MHBC); 20.viii.2007, 1 ♀, M. Horsák lgt. (PKPC). Javorník, Jazevčí NNR (232), 6.v.2000, 1 torso, 19.vi.2000, 2 ♀♀ (1 ♀ freshly hatched), I. Malenovský lgt., 10.ix.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC); 6.iv.–12.v.2009, Mt, 2 ♀♀, 14.ix.–22.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, village (239), 8.viii.2001, 1 ♂, P. Kment lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 7.ix.2002, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Machová NR (259), 14.v.1998, 1 ♀, P. Kment lgt. (PKPC); 8.v.2000, 2 ♀♀, I. Malenovský lgt. (MUBC); 28.v.–18.vi.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 28.v.–18.vi.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 24.v.2001, 1 ♀, I. Malenovský lgt. (PKPC). Strání, Nová hora NR (268), 16.v.1998, 1 ♂, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Holopalaearctic (except West Mediterranean) and Oriental.

Biology and habitat: Polyphagous phytophage. Euryecious, in open to half-shaded, dry to humid habitats with rich herbaceous vegetation from lowland to mountains. Common (STEHLÍK & VAVŘINOVÁ 1989, WACHMANN *et al.* 2007). **Red List status:** –.

Myrmus miriformis miriformis (Fallén, 1807)

Published records. BALTHASAR (1942): Luhačovice (68–6972). STEHLÍK & VAVŘINOVÁ (1989): Luhačovice (68–6972); Lipová (towards Haluzice) (16); Valašské Klobouky (towards Hostětin) [= Hostětín] (70); Hrádek (towards Hostětín) [= Rokytnice, Bukovina hill] (6973a4); Štítná nad Vláří (towards Popov) (71); Bylnice (6974); Sidonie (6974); Horní Němčí (7071); Korytná (7071–72); Bánov (7072); Komňa (7072); Radějov (7170); Nová Lhota (7171). KMENT (2001), KMENT & MALENOVSKÝ (2008): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 2 ♂♂ (mi), M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 1 ♀ (mi), P. Kment & I. Malenovský lgt., 10.ix.1999, 1 ♀ (mi), I. Malenovský lgt. (PKPC). Valašské Klobouky, Královec hill (33), 17.viii.2006, 1 ♂ (mi), P. Kment lgt. (PKPC). Poteč, Ploštiny NR (42), 4.vii.1999, 1 ♂ (mi), P. Kment & I. Malenovský lgt., 13.ix.1999, 1 ♂ (mi), I. Malenovský & T. Vymyslický lgt., 24.viii.2002, 1 ♂ 2 ♀♀ (mi), P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 30.vi.1999, 2 ♀♀ (mi), M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♀ (mi), P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 3.vii.1999, 2 ♂♂ 3 ♀♀ (sma) 1 ♂ 1 ♀ (mi), P. Kment & I. Malenovský lgt., 25.viii.2002, 1 ♂, P. Kment lgt., 28.vii.2005, 1 ♂ 1 ♀ (mi), I. Malenovský lgt., 12.vii.2006, 1 ♀ (mi), P. Kment & I. Malenovský lgt., 16.viii.2006, 1 ♂ (mi), P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54) and along road to Nedašov (52), 10.ix.1999, 1 ♂ (mi), I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Kaňoury NM (55), 3.vii.1999, 2 ♀♀ (mi), P. Kment & I. Malenovský lgt., 12.vii.2006, 1 ♂ 3 ♀♀ (mi), P. Kment & I. Malenovský lgt., 16.viii.2006, 1 ♀ (mi), P. Kment lgt. (PKPC). Brumov, Kloboucká street (76), 2.ix.2004, 2 ♂♂ 2 ♀♀ (mi), I. Malenovský lgt., 3.vi.–4.vii.2005, pt, 1 ♀ (mi), K. Resl lgt., 28.vii.2005, 2 ♂♂ 1 ♀ (mi), 4.ix.2005, 1 ♂ 3 ♀♀ (mi), P. Kment lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♂ (mi), P. Kment & I. Malenovský lgt. (PKPC). Bylnice, railway station environs (83), 11.ix.1999, 1 ♂ (mi), I. Malenovský & T. Vymyslický lgt. (PKPC). Hluk, Babí hora NM (102), 24.viii.2002, 2 ♂♂ (mi), I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 24.v.2009, 4 ♂♂ 4 ♀♀ (mi), 11.vii.2009, 4 ♂♂ 2 ♀♀ (mi), 16.viii.2009, 4 ♂♂ 3 ♀♀ (mi), P. Baňar lgt. et det. (MMBC). Louka, Hloží NR (106), 7.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt. (PKPC). Korytná, Břeží (113), 5.vii.2001, 1 ♀ (br), P. Kment & I. Malenovský lgt. (PKPC). Suchov, Kazivec brook valley (116), 9.ix.1998, 2 ♀♀, I. Malenovský & M. Omesová lgt. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 4 ♂♂ 3 ♀♀ (mi), P. Kment & I. Malenovský lgt., 21.vii.2002, 1 ♂ (mi), 10.ix.2002, 2 ♂♂ 2 ♀♀ (mi), I. Malenovský lgt. (PKPC). Strání, Klanečnice brook valley between village and Žabka reservoir (143), 10.vii.1998, 1 ♀ (mi), P. Kment lgt., 10.ix.1998, 1 ♂ (mi), I. Malenovský & M. Omesová lgt. (PKPC). Strání, Obecnice hill, at transmission tower (144), 2.vii.2001, 2 ♂♂ (mi), P. Kment & I.

True bugs (Hemiptera: Heteroptera)

Malenovský lgt., 20.vii.2002, 1 ♀ (mi), I. Malenovský lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 18.viii.2004, 1 ♂ (mi), P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 2 ♂♂ (mi), 8.viii.2007, 1 ♀ (br), 22.ix.2007, 1 ♀ (mi), P. Kment lgt. (PKPC). Vápenice, V Krátkých (170), 6.vii.2001, 1 ♀ (sma), P. Kment & I. Malenovský lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♂ (mi), P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 19.viii.2002, 2 ♂♂ 1 ♀ (mi), P. Kment lgt. (PKPC). Kněždub, Kněždubský háj forest (197), 8.vii.2000, 1 ♂ (sma) 1 ♂ (mi), P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 8.ix.2000, 1 ♂ (mi), I. Malenovský lgt., 22.vi.2001, 1 ♂ (mi), 28.vii.2001, 3 ♂♂, 20.ix.2001, 1 ♀ (mi), P. Kment lgt., 27.vi.2002, 5 ♂♂ 2 ♀♀ (mi), I. Malenovský lgt. (PKPC). Malá Vrbka, between village and Výzkum hill (205), 17.viii.2000, 1 ♂ (mi), P. Kment & I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 18.vi.2000, 1 ♂ 1 ♀ (sma) 1 ♀ (mi), 27.vii.2000, 2 ♂♂ 1 ♀ (mi), I. Malenovský lgt., 4.viii.2000, 1 ♂ (mi), 16.viii.2000, 2 ♂♂ 2 ♀♀ (mi), P. Kment lgt., 1.x.2000, 3 ♂♂ (mi), 22.x.2000, 1 ♂ (sma) 1 ♂ (mi), P. Kment & I. Malenovský lgt., 20.ix.2001, 2 ♂♂ 1 ♀ (mi), 17.viii.2002, 2 ♂♂ 1 ♀ (mi), 4.x.2002, 1 ♂ 1 ♀ (mi), P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 8.vii.2000, several spec., P. Kment observ., 16.viii.2000, 1 ♂ 2 ♀♀ (br), P. Kment lgt. (PKPC). Radějov, Kútý NR (217), 11.vii.1998, 1 ♀ (mi), P. Kment lgt. (PKPC); 7.vi.2008, 1 ♂ (mi), J. Ch. Vávra lgt. (OMOC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 13.vii.1998, 2 ♂♂ 1 ♀ (mi), P. Kment lgt. (PKPC); 19.vi.2000, 1 ♂ (sma) 2 ♀♀ (mi), P. Kment lgt. (MUBC); 24.vii.2000, 1 ♂ (mi), I. Malenovský lgt., 18.viii.2000, 5 ♂♂ 1 ♀ (mi), P. Kment lgt., 9.–10.ix.2000, 4 ♂♂ 1 ♀ (mi), P. Kment & I. Malenovský lgt. (PKPC). Suchové Mlýny, sheep pasture (226), 16.viii.2004, 1 ♂ (mi), I. Malenovský lgt. (PKPC). Suchové Mlýny, meadow (227), 27.vii.2005, 1 ♂ 3 ♀♀ (mi), 1.ix.2005, 1 ♀ (mi), I. Malenovský lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 27.vii.2005, 1 ♂ (mi), I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 15.vii.1998, 1 ♀ (mi), I. Malenovský & M. Omesová lgt., 19.vi.2000, 1 ♂ (mi) 1 ♀ (sma) 2 ♀♀ (mi), I. Malenovský lgt., 18.viii.2000, 2 ♂♂ 2 ♀♀ (mi), P. Kment lgt., 10.ix.2000, 4 ♂♂ 2 ♀♀ (mi), P. Kment & I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♂ 1 ♀ (mi), I. Malenovský lgt., 23.ix.2001, 1 ♀ (mi), P. Kment lgt., 7.ix.2002, 2 ♂♂ 4 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 17.vii.2002, 1 ♀ (mi), I. Malenovský lgt. (PKPC). Vápenky, Porážky NNR (247), 15.vii.1998, 1 ♀ (mi), I. Malenovský & M. Omesová lgt. (PKPC). Javorník, Machová NR (259), 9.vii.1998, 1 ♂ (mi), P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Eurosiberian, extending to Transcaucasia. **Biology and habitat:**

On Poaceae. Euryecious, in xerothermic as well as humid and half-shaded grassland.

Very common (STEHLÍK & VAVŘINOVÁ 1989, WACHMANN *et al.* 2007). **Red List status:** –.

Rhopalus (Aeschyntelus) maculatus (Fieber, 1837)

Published records. STEHLÍK & VAVŘINOVÁ (1989): Javorník, Výzkum [hill] (258). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Poteč, Ploščíny NR (42), 1.vi.2002, 1 ♂, I. Malenovský lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 28.v.2005, 1 ♂, I. Malenovský lgt. (PKPC). Vyškovec, Pod Hřibovňou NM (176), 25.ix.2004, 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area.

Apparently a rare species in the Bílé Karpaty Mts. due to the lack of suitable habitats and

a very rare occurrence of its usual host plant. **General distribution:** Holopalaeartic

(except southern Mediterranean). **Biology and habitat:** Most frequently on *Potentilla*

palustris (= *Comarum palustre*) which is the main host plant, rarely on other plants (e.g.

Cirsium palustre, *Ledum palustre*, *Epilobium*, and *Lythrum*) (STEHLÍK & VAVŘINOVÁ

1989, WACHMANN *et al.* 2007). In Moravia, common in peat bogs and peaty meadows at

medium altitudes, missing in both lowland and mountain regions (STEHLÍK & VAVŘINOVÁ

1989). **Red List status:** –.

***Rhopalus (Rhopalus) conspersus* (Fieber, 1837)**

Published record. STEHLÍK & VAVŘINOVÁ (1989): Bánov, Skalky hill (125).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, not recorded in the course of the recent survey. **General distribution:** Eurosiberian, extending to Anatolia and Iran. **Biology and habitat:** On *Thymus serpyllum*, adults also on other plants (e.g. *Fragaria*, *Echinops*, *Adonis*, *Geranium*, and *Silene*) in xerothermic localities. Quite rare (STEHLÍK & VAVŘINOVÁ 1989, WACHMANN *et al.* 2007). **Red List status:** –.

***Rhopalus (Rhopalus) parumpunctatus* Schilling, 1829**

Published records. HOBERLANDT (1944, as f. *singeri*): Javorina (942 m) [= Mt. Velká Javořina] (255). STEHLÍK & VAVŘINOVÁ (1989): Rokytnice (6973); Bylnice (6974); Horní Němčí (7071); Korytná (7071–72); Lopeník, Mikulčín vrch hill (160); Starý Hrozenkov (7073); Javorník (7171). NEJEDLÁ (1997: 219): Velká Javorina [= Mt. Velká Javořina] (255). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Luhačovice, Ještí, E of Gáborka spring (6), 1.x.2007, 1 ♀, J. Ježek lgt. (NMPC). Petrůvka, U Petrůvky NM (14), 6.viii.1999, 1 ♂, P. Kment lgt. (PKPC). Valašské Klobouky, Brumovská street (30), 19.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 1.x.2007, 1 ♂, O. Konvička lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 10.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt., 1.x.2007, 1 ♀, O. Konvička lgt. (PKPC). Valašské Klobouky, Královec hill (33), 17.viii.2006, 2 ♂♂, P. Kment lgt. (PKPC). Poteč, Ploštiny NR (42), 4.vii.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC, VURV); 13.ix.1999, 1 ♂ 2 ♀♀, I. Malenovský & T. Vymyslický lgt., 24.viii.2002, 5 ♂♂ 3 ♀♀, 17.viii.2006, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 23.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 9.ix.1999, 1 ♂, I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 25.viii.2002, 1 ♂, P. Kment lgt., 28.vii.2005, 5 ♂♂ 1 ♀, I. Malenovský lgt., 16.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54) and along road to Nedašov (52), 10.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Kaňoury NM (55), 16.viii.2006, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Bylnice, Lazy NR and environs (82), 12.ix.1999, 2 ♂♂ 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 1.ix.2004, 1 ♂ 1 ♀, 28.vii.2005, 1 ♂, 6.ix.2005, 3 ♀♀, I. Malenovský lgt. (PKPC). Lipov, Pešunk (100), 10.vii.2009, 1 ♀, Z. Malinka lgt. (ZMOC). Hluk, Kobylí hlava NM (101), 24.viii.2002, 3 ♂♂, I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 16.viii.2009, 2 ♂♂ 2 ♀♀, P. Baňar lgt. et det. (MMBC). Suchov, Kazinec brook valley (116), 9.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt. (PKPC). Horní Němčí, Drahy NR (117), 10.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt., 13.viii.2001, 6 ♂♂ 4 ♀♀, 21.ix.2001, 1 ♂ 2 ♀♀, P. Kment lgt., 21.vii.2002, 15 ♂♂ 11 ♀♀, 10.ix.2002, 7 ♂♂ 4 ♀♀, I. Malenovský lgt. (PKPC). Horní Němčí, Vinohrádky (121), 10.ix.2002, 1 ♀, I. Malenovský lgt. (PKPC). Březová, Cestiska NM (136), 2.x.2007, 2 ♂♂, O. Konvička lgt. (NMPC). Strání, Obecnice hill, at transmission tower (144), 23.v.2002, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt., 20.vii.2002, 6 ♀♀, I. Malenovský lgt. (PKPC). Lopeník, U Zvonice NM (155), 25.ix.2004, 2 ♂♂, P. Kment lgt., 24.vii.2005, 18 ♂♂ 18 ♀♀, I. Malenovský lgt., 3.ix.2005, 7 ♂♂ 6 ♀♀, P. Kment lgt. (PKPC). Lopeník, Mikulčín vrch hill (160), spruce forest margin, 24.vii.2005, 1 ♀, I. Malenovský lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 18.viii.2004, 1 ♀, P. Kment lgt. (PKPC). Žitková, Hutě NR (164), 11.–31.vii.2007, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 2 ♂♂ 2 ♀♀, 8.viii.2007, 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 3 ♂♂ 1 ♀, 8.viii.2007, 2 ♂♂ 3 ♀♀ (1 ♀ freshly hatched), 22.ix.2007, 1 ♀, P. Kment lgt. (PKPC). Vyškovec, Pod Hřibovňou NM (176), 25.ix.2004, 2 ♂♂ 4 ♀♀, 24.vii.2005, 7 ♂♂ 9 ♀♀, P. Kment lgt., 3.ix.2005, 4 ♂♂ 4 ♀♀, I. Malenovský lgt. (PKPC). Vyškovecké Bošačky, cattle pasture (179), 24.vii.2005, 1 ♂, P. Kment lgt., 3.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Vyškovecké Bošačky, meadow and orchard (180), 19.viii.2004, 1 ♀, 25.ix.2004, 1 ♂ 1 ♀, P. Kment lgt., 21.v.2005, 1 ♂, I. Malenovský lgt., 24.vii.2005, 1 ♂ 3 ♀♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 4.–26.vi.2008, Mt, 1 ♂ 1 ♀, 14.vii.–5.viii.2008, Mt, 1 ♂, 26.viii.–24.ix.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Kněždubský háj forest (197), 17.viii.2000, 3 ♂♂ 4 ♀♀, P. Kment lgt., 28.vii.2001, 3 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 20.ix.2001, 1 ♀, M. Omesová lgt. (MUBC).

True bugs (Hemiptera: Heteroptera)

Kněždub, Čertoryje NNR (202), 8.ix.2000, 1 ♀, I. Malenovský lgt., 28.vii.2001, 4 ♂♂ 1 ♀, 20.ix.2001, 2 ♂♂ 3 ♀♀, P. Kment lgt., 27.vi.2002, 3 ♂♂, I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 5.v.2000, 1 ♂, I. Malenovský lgt., 25.v.2000, 1 ♀, P. Kment lgt., 18.vi.2000, 1 ♂, I. Malenovský lgt., 8.vii.2000, 1 ♂, P. Kment lgt., 27.vii.2000, 1 ♂, I. Malenovský lgt., 16.viii.2000, 2 ♂♂ 2 ♀♀, P. Kment lgt., 1.x.2000, 1 ♂, P. Kment & I. Malenovský lgt., 2.v.2001, 2 ♀♀, P. Kment lgt., 28.vii.2001, 4 ♂♂ 5 ♀♀, P. Kment & I. Malenovský lgt., 27.vi.2002, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Hrubá Vrbka, football ground (211), 8.vii.2000, 1 ♀, 16.viii.2000, 2 ♂♂, P. Kment lgt. (PKPC); 20.ix.2001, 1 ♂, M. Omesová lgt. (MUBC). Radějov, Měsíční údolí valley (214), 8.ix.1998, 1 ♂ 1 ♀, I. Malenovský & M. Omesová lgt. (PKPC); 16.viii.2009, along road to Radějov, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 24.vii.2000, 1 ♀, I. Malenovský lgt., 9.–10.ix.2000, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 15.vii.–6.viii.2009, Mt, 1 ♂, P. Chvojka & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 16.viii.2004, 2 ♂♂ 1 ♀, 26.v.2005, 1 ♂ 1 ♀, 27.vii.2005, 1 ♂ 2 ♀♀, 1.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Suchovské Mlýny, meadow (227), 27.vii.2005, 2 ♂♂ 5 ♀♀, I. Malenovský lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 16.viii.2004, 1 ♂ 1 ♀, P. Kment lgt., 27.vii.2005, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 1 ♂ 2 ♀♀, I. Malenovský lgt., 18.viii.2000, 4 ♂♂ 3 ♀♀, P. Kment lgt., 10.ix.2000, 3 ♂♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 24.viii.–14.ix.2009, Mt, 1 ♀, 14.ix.–22.x.2009, Mt, 2 ♂♂ 3 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 2 ♀♀, I. Malenovský lgt., 8.viii.2001, 1 ♀, P. Kment lgt., 24.v.2002, 1 ♀, 17.vii.2002, 8 ♂♂ 17 ♀♀, 7.ix.2002, 2 ♂♂ 3 ♀♀, 2.ix.2004, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 23.ix.2001, 2 ♂♂ 1 ♀, P. Kment lgt., 17.vii.2002, 1 ♀, 7.ix.2002, 4 ♂♂ 6 ♀♀, I. Malenovský lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 4.–24.viii.2009, Mt, 2 ♀♀, 16.ix.–22.x.2009, Mt, 3 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Vápenky, Porážky NNR (247), 9.ix.1998, 1 ♀, I. Malenovský & M. Omesová lgt. (PKPC). Vápenky, Velička brook valley below Hubertova bouda hut (253), 21.viii.2002, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Javorník, Machová NR (259), 8.v.2000, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 9.vii.–2.viii.2007, Mt, 3 ♂♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 9.viii.2001, 1 ♂, P. Kment lgt., 20.vii.2002, 1 ♀, I. Malenovský lgt. (PKPC). Strání, Záhumenice NM (266), 9.viii.2001, 2 ♂♂ 1 ♀, P. Kment lgt., 21.ix.2001, 1 ♂ 1 ♀, I. Malenovský lgt., 20.vii.2002, 1 ♂, P. Kment lgt., 12.ix.2002, 1 ♀, I. Malenovský lgt. (PKPC); 12.viii.–9.ix.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 21.viii.2002, 1 ♂ 1 ♀, P. Kment lgt. (PKPC); 4.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 6.–24.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Holopalaeartic. **Biology and habitat:** A polyphagous phytophage. Euryecious, from lowlands to mountains. Very common (STEHLÍK & VAVŘINOVÁ 1989, WACHMANN *et al.* 2007). **Red List status:** –.

Rhopalus (Rhopalus) subrufus (Gmelin, 1790)

Published records. STEHLÍK & VAVŘINOVÁ (1989): Lipová (towards Haluzice) (16); Hrádek (towards Hostětín) [= Rokytnice, Bukovina hill] (6973a4); Horní Němčí (7071); Korytná (7071–72); Radějov (7170). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 23.vi.–16.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovská street (30), 19.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 9.ix.1999, 1 ♂, I. Malenovský lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 1.x.2007, 1 ♀, O. Konvička lgt. (PKPC). Valašské Klobouky, Královec hill (33), 10.ix.1999, 1 ♀, I. Malenovský & T. Výmyslický lgt., 17.viii.2006, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Poteč, Ploščiny NR (42), 24.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, meadow (48), 19.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 20.v.1999, 1 ♂, 3.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Petrůvka, Kladenka brook valley (64), 13.v.–3.vi.2008, Mt, 1 ♂, 3.–23.vi.2008, Mt, 1 ♀, 23.vi.–16.vii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Štítná nad Vláří, south-exposed slopes N of the village (74), 22.v.2006, 1 ♂, 10.vii.2006, 1 ♂, O. Konvička lgt. (NMPC). Bylnice, Na Stráži

(77), 11.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Sidonie env. (88), 27.vi.1998, 1 ♀, V. Vrabc & L. Vrabcová lgt. (VVKC). Louka, Hloží NR (106), 24.iv.1999, 1 ♀, M. Horsák lgt. (PKPC). Korytná, Březí (113), 5.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR (117), 10.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt., 13.viii.2001, 1 ♂, 21.ix.2001, 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 8.viii.2007, 1 ♂, 22.ix.2007, 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 2 ♀♀, 22.ix.2007, 1 ♀, P. Kment lgt. (PKPC). Vyškovské Bošačky, cattle pasture (179), 25.ix.2004, 1 ♀, P. Kment lgt., 21.v.2005, 1 ♀, I. Malenovský lgt. (PKPC). Radějov, Žerotín NM (188), 19.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 18.vi.2000, 1 ♀, I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.v.1998, 1 ♂ 2 ♀♀, M. Horsák & P. Kment lgt. (MHBC, PKPC); 19.vi.2000, 1 ♂, P. Kment lgt., 24.vii.2000, 1 ♀, I. Malenovský lgt., 9.–10.ix.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Jazevěč NNR (232), 6.v.2000, 1 ♂, I. Malenovský lgt., 18.viii.2000, 1 ♀, P. Kment lgt. (PKPC); 15.vii.–5.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, loampit (235), 24.v.2002, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Javorník, railway station (237), 9.vii.1998, several spec., P. Kment observ. Javorník, Machová NR (259), 14.v.1998, 1 ♂, 9.vii.1998, 1 ♀, P. Kment lgt., 8.v.2000, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC); 13.vii.–10.viii.2010, Mt, 1 ♀, 7.ix.–21.x.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 28.v.–18.vi.2007, Mt, 3 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Holopalaearctic (except easternmost Asia). **Biology and habitat:** A polyphagous phytophage, with some preference for Lamiaceae and Geraniaceae. Euryecious, in dry to slightly humid, open to half-shaded habitats. Common (STEHLÍK & VAVŘINOVÁ 1989, WACHMANN *et al.* 2007). **Red List status:** –.

Stictopleurus abutilon (Rossi, 1790)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Javorůvky NR (32), 22.v.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráň NR (54), 5.x.2004, 1 ♂, I. Malenovský lgt., 16.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55), 17.vi.2006, 1 ♂, I. Malenovský lgt. (PKPC). Bylnice, Na Stráži (77), 18.viii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 5.x.2004, 1 ♂, I. Malenovský lgt. (PKPC). Hluk, Kobylí hlava NM (101), 24.viii.2002, 1 ♂, I. Malenovský lgt. (PKPC). Suchoy, Kazivec brook valley (116), 15.v.1998, 1 ♂, P. Kment lgt. (PKPC). Horní Němčí, Vinohrádky (121), 13.viii.2001, 1 ♀, P. Kment lgt., 10.ix.2002, 1 ♂, I. Malenovský lgt. (PKPC). Březová, Cestiska NM (136), 2.x.2007, 2 ♀♀, O. Konvička lgt. (NMPC). Lopeník, U Zvonice NM (155), 27.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 21.viii.–12.ix.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♀, 8.viii.2007, 1 ♀, 22.ix.2007, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 2 ♂♂, 22.ix.2007, 1 ♂, P. Kment lgt. (PKPC). Vyškovec, Pod Hribovňou NM (176), 28.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Vyškovské Bošačky, cattle pasture (179), 25.ix.2004, 2 ♂♂, 24.vii.2005, 1 ♀, P. Kment lgt., 3.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 11.vii.1998, 1 ♀, 19.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Tvarožná Lhota, Lučina reservoir (199), 13.v.1998, 1 ♂, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 5.v.2000, 2 ♂♂, 25.v.2000, 2 ♂♂, 18.vi.2000, 1 ♀, I. Malenovský lgt., 4.viii.2000, 1 ♀, 16.viii.2000, 2 ♀♀, P. Kment lgt., 1.x.2000, 1 ♂ 1 ♀, 22.x.2000, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt., 2.v.2001, 2 ♂♂ 1 ♀, P. Kment lgt., 28.vii.2001, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Hrubá Vrbka, football ground (211), 16.viii.2000, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.v.1998, 2 ♀♀, M. Horsák & P. Kment lgt., 13.vii.1998, 1 ♀, 19.vi.2000, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Javorník, Jazevěč NNR (232), 10.ix.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 14.ix.–22.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 23.ix.2001, 1 ♀, P. Kment lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 23.vi.2004, 1 ♂, I. Malenovský lgt. (PKPC). Vápenky, Mt. Velká Javořina (255), forest, 25.v.1999, 1 ♀, H. Hiršová lgt. (MUBC). Javorník, Machová NR (259), 22.viii.–10.ix.2007, Mt, 1 ♂, P.

Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 21.ix.2001, 1 ♀, 12.ix.2002, 1 ♀, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Holopalaearctic (except easternmost Asia). **Biology and habitat:** On Asteraceae (especially *Artemisia* and *Achillea*). Euryecious, although preferring warm and dry, open habitats. Common (STEHLÍK & VAVŘÍNOVÁ 1989, WACHMANN *et al.* 2007). **Red List status:** –.

Stictopleurus crassicornis (Linnaeus, 1758)

Published records. STEHLÍK & VAVŘÍNOVÁ (1989): Lipová (towards Haluzice) (16); Nedašova Lhota (6874); Štítná nad Vláří (towards Popov) (71); Bylnice (6974); Bánov (7072); Boršice [u Blatnice] (towards Hluk) (105); Horní Němčí (7071); Korytná (7071–72); Komňa (7072); Lopeník, Mikulčin vrch hill (160); Kněždub (7170); Velká nad Veličkou (towards Javorník) (240). KMENT (2001): Kněždub, Čertoryje NNR (202). KMENT & MALENOVSKÝ (2008): Nedašov, Jalovcová stráž NR (54).

Material examined. Valašské Klobouky, Brumovka brook valley (29), 19.v.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Brumovská street (30), 19.v.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Poteč, Ploščiny NR (42), 13.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt., 17.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Brumov, Uhlíčky and Kloboucká street (44, 76), 8.v.2004, 1 ♀, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 20.v.1999, 2 ♂♂, 3.vii.1999, 2 ♂♂ 2 ♀♀ (1 ♂ freshly hatched), P. Kment & I. Malenovský lgt., 28.vii.2005, 1 ♀, I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54) and along road to Nedašov (52), 10.ix.1999, 2 ♂♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Kaňoury NM (55), 20.v.1999, 1 ♀, 3.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Štítná nad Vláří, south-exposed slopes N of the village (74), 10.vii.2006, 1 ♂, O. Konvička lgt. (NMPC). Bylnice, Lazy NR and environs (82), 12.ix.1999, 1 ♂ 2 ♀♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Svätý Štěpán, right bank of Vlára river (95), 21.v.1999, 1 ♂, P. Kment lgt. (PKPC). Horní Němčí, Drahy NR (117), 21.ix.2001, 1 ♀, P. Kment lgt., 21.vii.2002, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Horní Němčí, Vinohrádky (121), 20.vii.2002, 1 ♀, I. Malenovský lgt. (PKPC). Lopeník, U Zvonice NM (155), 27.vi.2004, 1 ♂, I. Malenovský lgt., 3.ix.2005, 1 ♂, P. Kment lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 25.ix.2004, 1 ♂, I. Malenovský lgt. (PKPC). Žitková (163), 11.vi.1999, 1 ♀, K. Hradil lgt. et det. (KHMC). Žitková, Hutě NR (164), 12.ix.–2.x.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 2 ♂♂, 22.ix.2007, 1 ♂, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 1 ♀, 8.viii.2007, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Vyškovec, Pod Hřibovňou NM (176), 25.ix.2004, 1 ♂, P. Kment lgt. (PKPC). Vyškovské Bošačky, cattle pasture (179), 25.ix.2004, 2 ♂♂, 24.vii.2005, 2 ♂♂ 3 ♀♀, P. Kment lgt. (PKPC). Vyškovské Bošačky, meadow and orchard (180), 27.vi.2004, 1 ♂, I. Malenovský lgt., 19.viii.2004, 1 ♂ 2 ♀♀, 25.ix.2004, 1 ♀, 24.vii.2005, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 19.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Kněždubský háj forest (197), 8.vii.2000, 1 ♂, P. Kment lgt. (PKPC); 20.ix.2001, 1 ♂, M. Omesová lgt. (MUBC). Kněždub, Čertoryje NNR (202), 22.vi.2001, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, between village and Výzkum hill (205), 20.ix.2001, 1 ♀, M. Omesová lgt. (MUBC). Malá Vrbka, Výzkum hill, restored grassland (208), 5.v.2000, 6 ♂♂ 1 ♀, I. Malenovský lgt., 25.v.2000, 1 ♂ 5 ♀♀, P. Kment & I. Malenovský lgt., 18.vi.2000, 1 ♂, 27.vii.2000, 6 ♂♂, I. Malenovský lgt., 4.viii.2000, 10 ♂♂ 3 ♀♀, 16.viii.2000, 5 ♂♂ 1 ♀, P. Kment lgt., 1.x.2000, 1 ♂ 2 ♀♀, 22.x.2000, 4 ♂♂ 2 ♀♀, P. Kment & I. Malenovský lgt., 2.v.2001, 1 ♀, P. Kment lgt., 28.vii.2001, 5 ♀♀, P. Kment & I. Malenovský lgt., 20.ix.2001, 1 ♀, P. Kment lgt., 27.vi.2002, 1 ♂, I. Malenovský lgt., 4.x.2002, 1 ♂, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 8.vii.2000, 2 ♂♂ 2 ♀♀, 16.viii.2000, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Hrubá Vrbka, village (212), 9.–12.vii.2009, 1 ♂, Z. Malinka lgt. (ZMOC). Radějov, Kútky NR (217), 26.vi.–15.vii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.v.1998, 1 ♀, P. Kment lgt. (PKPC); 13.vii.1998, 2 ♂♂ 1 ♀, P. Kment lgt. (MHBC, PKPC); 18.iv.2000, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt., 19.vi.2000, 2 ♀♀, P. Kment lgt., 9.–10.ix.2000, 1 ♂ 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Suchovské Mlýny, sheep pasture (226), 1.x.2004, 2 ♂♂, I. Malenovský lgt. (PKPC). Javorník, Jazevečí NNR (232), 19.vi.2000, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Nad Vápenkou NM (236),

7.ix.2002, 2 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 23.ix.2001, 2 ♀♀, P. Kment lgt., 17.vii.2002, 1 ♂, 7.ix.2002, 6 ♂♂ 1 ♀, 1.x.2004, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 7.ix.2002, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Machová NR (259), 14.v.1998, 3 ♀♀, P. Kment lgt. (MHBC, PKPC); 9.vii.1998, 1 ♂, P. Kment lgt. (PKPC). Strání, Nová hora NR (268), 25.v.1999, 1 ♀, H. Hiršová lgt. (PKPC). Strání, Záhumenice, cattle pasture (265), 23.v.2002, 1 ♀, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Holopalaeartic (except North Africa). **Biology and habitat:**

Mostly on Asteraceae, euryecious, present also in humid habitats. Very common (STEHLÍK & VAVŘINOVÁ 1989, WACHMANN *et al.* 2007). **Red List status:** –.

Stictoleurus punctatonervosus (Goeze, 1778)

Published records. STEHLÍK & VAVŘINOVÁ (1989): Luhačovice (68–6972); Bylnice (6974). KMENT (2001), KMENT & MALENOVSKÝ (2008): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Dobšená NM (31), 10.ix.1999, 1 ♀, I. Malenovský lgt. (PKPC). Poteč, Ploštiny NR (42), 13.ix.1999, 1 ♂ 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Brumov, Uhlíčky (44), 28.vii.2005, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 3.vii.1999, 2 ♀♀ (freshly hatched), P. Kment & I. Malenovský lgt. (PKPC). Štítná nad Vláří, south-exposed slopes N of the village (74), 22.v.2006, 1 ♀, O. Konvička lgt. (NMPC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 1 ♀, P. Kment & M. Omesová lgt. (PKPC). Bylnice, railway station environs (83), 1.vii.1999, 3 ♂♂, P. Kment & M. Omesová lgt. (PKPC). Hluk, Kobylí hlava NM (101), 24.viii.2002, 1 ♀, I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR (117), 10.ix.2002, 1 ♀, I. Malenovský lgt. (PKPC). Suchov, Kazivec brook valley (116), 15.v.1998, 1 ♂, I. Malenovský & M. Omesová lgt. (PKPC). Komňa, Lom Rasová NM (128), 5.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 2 ♂♂, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 22.ix.2007, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Vyškovec, Pod Hribovňou NM (176), 25.ix.2004, 1 ♀, P. Kment lgt. (PKPC). Vyškovcecké Bošačky, cattle pasture (179), 25.ix.2004, 2 ♂♂, P. Kment lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 11.vii.1998, 1 ♂, P. Kment lgt. (PKBC). Tvarožná Lhota, Lučina reservoir (199), 13.v.1998, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 22.vi.2001, 1 ♀, 4.x.2002, 3 ♂♂, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 5.v.2000, 2 ♂♂ 1 ♀, I. Malenovský lgt., 25.v.2000, 3 ♂♂ 2 ♀♀, P. Kment & I. Malenovský lgt., 18.vi.2000, 2 ♂♂ 4 ♀♀, 27.vii.2000, 1 ♀, I. Malenovský lgt., 16.viii.2000, 3 ♂♂ 3 ♀♀, P. Kment lgt., 1.x.2000, 2 ♂♂ 1 ♀, 22.x.2000, 4 ♂♂ 5 ♀♀, 2.v.2001, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt., 28.vii.2001, 1 ♀, I. Malenovský lgt., 4.x.2002, 1 ♂, P. Kment lgt. (PKPC). Hrubá Vrbka, village (212), light trap, 23.vii.2007, 1 ♂, J. Ch. Vávra lgt. (OMOC). Velká nad Velíčkou, Zahrady pod Hájem NNR (225), 18.iv.2000, 2 ♂♂, P. Kment & I. Malenovský lgt., 19.vi.2000, 1 ♀, P. Kment lgt., 9.–10.ix.2000, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Suchovské Mlýny, meadow (227), 27.vii.2005, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 6.v.2000, 1 ♀, 19.vi.2000, 2 ♂♂ 2 ♀♀, I. Malenovský lgt. (PKPC); 25.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Nad Vápenkou NM (236), 7.ix.2002, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 8.viii.2001, 1 ♂, 23.ix.2001, 1 ♂, P. Kment lgt., 2.ix.2004, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Machová NR (259), 9.vii.1998, 1 ♂ 1 ♀, P. Kment lgt., 8.v.2000, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 12.iv.–8.v.2007, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 9.viii.2001, 1 ♂ 1 ♀, P. Kment lgt., 21.ix.2001, 1 ♂, I. Malenovský lgt. (PKPC). Strání, Záhumenice NM (266), 24.v.2001, 1 ♀, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Eurosiberian, extending to the Near East, and Central Asiatic.

Biology and habitat: On Asteraceae. Euryecious, preferring dry and warm habitats. Very common (STEHLÍK & VAVŘINOVÁ 1989, WACHMANN *et al.* 2007). **Red List status:** –.

Family ALYDIDAE

Alydus calcaratus (Linnaeus, 1758)

Published records. STEHLÍK (1988): Bylnice (6974). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Hluk, Babi hora NM (102), 24.viii.2002, 1 ♀ 1 L5, I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 16.viii.2009, 2 ♂♂ 3 ♀♀, P. Baňář lgt. et det. (MMBC). Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♂, 13.viii.2001, 1 ♂, 21.ix.2001, 1 ♂, P. Kment lgt. (PKPC). Březová, Cestiska NM (136), 2.x.2007, 1 ♀, O. Konvička lgt. (NMPC). Strání, Důbrava hill (150), 7.vii.1980, 1 ♂, P. Lauterer lgt., 2 ♂♂ 1 ♀, L. Pospíšilová lgt. (MMBC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 18.viii.2004, 1 ♀, P. Kment lgt. (PKPC). Žitková, Hutě NR (164), 31.vii.–21.viii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 1 ♂, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 26.vi.–14.vii.2008, Mt, 1 ♂, 26.viii.–24.ix.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Kněždubský háj forest (197), 17.viii.2000, 1 ♂, P. Kment lgt., 28.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Hrubá Vrbka, football ground (211), 8.vii.2000, 2 ♂♂ 5 ♀♀, P. Kment lgt. (MUBC, PKPC); 28.vii.2001, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC); 20.ix.2001, 1 ♂ 1 ♀, M. Omesová lgt. (MUBC). Radějov, Kútky NR (217), 26.vi.–15.vii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 13.vii.1998, 1 ♂, P. Kment lgt., 24.vii.2000, 1 ♀, I. Malenovský lgt., 18.viii.2000, 1 ♂, P. Kment lgt., 9.–10.ix.2000, 2 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Suchovské Mlýny, sheep pasture (226), 1.x.2004, 1 ♂, I. Malenovský lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 16.viii.2004, 1 ♂, 1.x.2004, 1 ♂, P. Kment lgt. (PKPC). Trnovský Mlýn, meadow (229), 27.vii.2005, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 7.ix.2002, 5 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common in xerothermic localities throughout the area, but very rare in the north. **General distribution:** Holarctic (Eurosiberian, Central Asiatic, and Nearctic). **Biology and habitat:** On Fabaceae, at low and medium altitudes in open, warm and dry localities, nearly absent from higher altitudes. Common (STEHLÍK 1988, WACHMANN *et al.* 2007). **Red List status:** –.

Megalotomus junceus (Scopoli, 1763)

(EX / CR)

Published records. DOBŠÍK (1950): Korytná (7071–72). ROHÁČOVÁ (1992): Luhačovice env. (68–6972). HRADIL *et al.* (2008), KMENT & MALENOVSKÝ (2008): Starý Hrozenkov, Skalka quarry (169).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, known from scattered records in the northern and central parts of the area; recently collected only at one site.

General distribution: South Eurosiberian. **Biology and habitat:** On Fabaceae (*Trifolium*, *Genista tinctoria*, *Cytisus*, and *Lotus corniculatus*) (STEHLÍK 1988, STEHLÍK & VAVŘINOVÁ 1995, WACHMANN *et al.* 2007). In Moravia and Slovakia, it occurs in hills and mountains on limestone, flysch and volcanic rocks between 250–1000 m a.s.l. (STEHLÍK 1988, STEHLÍK & VAVŘINOVÁ 1995). In Italy it was recorded in humid and shaded places, especially in forest clearings (DIOLI 1974, 1979). **Red List status:** Critically endangered; see the Comments.

Comments. In the Czech Republic, *M. junceus* has been known only from six records from the Bílé Karpaty Mts. and the environs of Zlín in south-eastern Moravia (see STEHLÍK 1988, HRADIL *et al.* 2008). KMENT & VILÍMOVÁ (2006) treated *M. junceus* as extinct in the Czech Republic, but it has been recently rediscovered near Starý Hrozenkov in 2007, after 50 years (HRADIL *et al.* 2008). We thus propose to update the species status in the national Red List of threatened invertebrates as critically endangered.

The localisation of the DOBŠÍK's (1950) record is problematical, as the locality labels of Veleslav Lang's material from "Korytná" correspond in fact to several localities sampled by him in August 12–15, 1944, namely the Porážky NNR, Lesná hill, Studený kopec hill near Suchá Loz, the environs of the present Kalábová NM near Březová, and the Lipiny forest near Korytná (LANG 1945; I. Malenovský, pers. comm.).

Family COREIDAE

Ceraleptus gracilicornis (Herrich-Schaeffer, 1835) (EN)

Material examined. Radějov, Žerotín NM (188), 14.v.–4.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 8.iv.–12.v.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 6.iv.–12.v.2009, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 12.iv.–8.v.2007, Mt, 3 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only with Malaise traps in the southern part of the area. **General distribution:** Holomediterranean, extending to central Europe. **Biology and habitat:** On Fabaceae (e.g. *Lathyrus*, *Trifolium*, *Medicago*, *Coronilla*, *Onobrychis*, *Lotus*, and *Vicia*). On xerothermic localities (open xerothermic woodland, forest clearings and margins). Rare, all Moravian records except one (see ŠTYS 1959) come from the Pannonicum and its outskirts (STEHLÍK 1988, WACHMANN *et al.* 2007). **Red List status:** Endangered.

Ceraleptus lividus Stein, 1858

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petřůvka, U Petřůvky NM (14), 16.vii.–4.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Žerotín NM (188), 5.–26.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Malá Vrbka, Výzkum hill, restored grassland (208), 2.v.2001, 2 ♀♀, P. Kment & I. Malenovský lgt., 17.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 18.iv.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC); 8.iv.–12.v.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, meadow (227), 3.iv.–6.v.2005, pt, 1 ♂, K. Resl lgt. (PKPC). Trnovský Mlýn, meadow (229), 26.v.2005, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), on old skull of *Ovis musimon*, 3.v.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC); 6.iv.–12.v.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 3.v.2001, 1 ♂, P. Kment & I. Malenovský lgt., 2.ix.2004, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 23.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Machová NR (259), 14.v.1998, 1 ♂, P. Kment lgt. (PKPC); 2.–22.viii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread in xerothermic sites in the southern part of the area, with one additional record from the north. **General distribution:** European, extending to Anatolia and Iran. **Biology and habitat:** On Fabaceae (e.g. *Trifolium*, *Medicago*, *Lathyrus*, *Vicia*, and *Cytisus scoparius*). A thermophilous species, quite euryecious (on sands, in meadows, lowland forests, and sunny places on rocky substrates), missing from mountain regions. Not rare (STEHLÍK 1988, WACHMANN *et al.* 2007). **Red List status:** –.

***Coreus marginatus marginatus* (Linnaeus, 1758)**

Published records. STEHLÍK (1988): Bylnice (6974); Blatnice [pod Svatým Antonínkem] (7070). KMENT (2001): Kněždub, Čertoryje NNR (202). KMENT & VILÍMOVÁ (2010b): Malá Vrbka, [Výzkum hill], restored meadow (208).

Material examined. Luhačovice, Ještí, E of Gáborka spring (6), 1.x.2007, 4 ♂♂ 1 ♀, J. Ježek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 19.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 10.ix.1999, 1 ♀, I. Malenovský lgt., 1.x.2007, 1 ♂, O. Konvička lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 10.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (MUBC). Valašské Klobouky, Královec hill (33), 22.v.1999, 1 ♀, P. Kment & I. Malenovský lgt., 17.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Na Nivách (34), 9.ix.1999, 2 ♀♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Valašské Klobouky, NW slope of Královec hill (35), 10.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Valašské Klobouky, U Rybníků (38), 2.vii.1999, 1 ♂, M. Horsák & P. Kment lgt. (PKPC). Poteč, Ploščiny NR (42), 13.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Brumov, Uhlíčky (44), 4.ix.2005, 1 ♀, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55), 16.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Štítná nad Vláří, south-exposed slopes N of the village (74), 22.v.2006, 1 ♀, O. Konvička lgt. (NMPC). Bylnice, railway station environs (83), 11.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 30.vi.2004, 1 ♂, 5.x.2004, 6 spec., I. Malenovský lgt. (PKPC). Suchov, Kazivec brook valley (116), 9.ix.1998, 1 ♀, I. Malenovský & M. Omesová lgt. (PKPC). Horní Němčí, Vinohrádky (121), on *Rumex* sp. in field of *Trifolium pratense*, 15.v.1998, 1 ♂, P. Kment lgt. (PKPC). Horní Němčí, Lesná hill (123), 15.v.1998, 1 spec., P. Kment observ. Březová, NE slope of Nová hora hill (151), 20.ix.2005, 1 ♀, J. Ježek lgt. (PKPC). Lopeník, Hrubý Mechnáč (157), 29.iv.2000, 1 ♂, M. Horsák lgt. (PKPC). Žitková (163), 11.vi.1999, 1 ♂, K. Hradil lgt. et det. (KHMC). Starý Hrozenkov, Hrozenkovské terasy (167), 8.viii.2007, 2 ♀♀, 22.ix.2007, 1 ♂, P. Kment lgt. (PKPC). Vápenice, V Krátkých (170), 6.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Vyškovecké Bošačky, meadow and orchard (180), 24.vii.2005, 1 ♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), *Quercetum pubescentis* and vineyards, 30.viii.2005, 1 ♀, M. Horsák lgt. (MHBC). Tvarožná Lhota, Lučina reservoir (199), 13.v.1998, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 5.v.2000, 4 ♀♀, I. Malenovský lgt., 25.v.2000, 1 ♂ 3 ♀♀, P. Kment & I. Malenovský lgt., 27.vii.2000, 1 ♀, I. Malenovský lgt., 2.v.2001, 1 ♀, 17.viii.2002, 6 ♀♀, P. Kment lgt. (PKPC). Radějov, Měsíční údolí valley (214), 8.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.v.1998, 1 ♂, P. Šmarda lgt. (PSBC); 9.–10.ix.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC); 8.iv.–12.v.2009, Mt, 2 ♂♂ 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 18.viii.2000, 1 ♂ 1 ♀, P. Kment lgt., 10.ix.2000, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 6.iv.–12.v.2009, Mt, 1 ♀, 24.viii.–14.ix.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, railway station (237), 9.vii.1998, several spec., P. Kment observ. Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 6.iv.–12.v.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Podširocké Mlýny (249), 22.ix.2005, 2 ♂♂, J. Ježek lgt. (NMPC). Slavkov, Dolnoněmčanské louky NR (250), on *Rumex* sp., 15.v.1998, 1 ♂ 1 ♀ in copula, P. Kment observ. Nová Lhota, Vápenky, left-side tributary of Velička river (252), 7.iv.–12.v.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Vápenky, Velička brook valley above Hubertova bouda hut (254), 12.vii.1998, 1 ♀, P. Kment lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 7.iv.–5.v.2010, Mt, 1 ♀, 24.v.–15.vi.2010, Mt, 1 ♂, 7.ix.–21.x.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 14.v.1998, on *Rumex* sp., 1 ♀, 9.vii.1998, 1 spec., P. Kment lgt., 8.v.2000, 1 ♂, I. Malenovský lgt. (PKPC); 12.iv.–8.v.2007, Mt, 1 ♀, 8.–28.v.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 8.–28.v.2007, Mt, 1 ♀ (NMPC). Strání, Javorina NNR, meadow (270), 21.viii.2002, 1 ♂, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: West Palaearctic, extending to eastern Siberia and north-western China. **Biology and habitat:** On Polygonaceae (*Rumex*, *Polygonum*, *Rheum undulatum*). Euryecious, occurring from lowland to mountains. Very common (STEHLÍK 1988, WACHMANN *et al.* 2007). **Red List status:** –.

Coriomeris denticulatus (Scopoli, 1763)

Published records. STEHLÍK (1988): Bylnice (6974); Radějov (7170); Javorník (7171).

Material examined. Starý Hrozenkov, Hrozenkovské terasy (167), 8.viii.2007, 1 ♂, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 1 ♂ 1 L, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 14.v.–4.vi.2008, Mt, 1 ♂, 4.–26.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Tvarožná Lhota, Lučina reservoir (199), 13.v.1998, 1 ♂, P. Kment lgt. (PKPC). Radějov, Kútky NR (217), 7.vi.2008, 1 ♂, J. Ch. Vávra lgt. (OMOC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 13.vii.1998, 1 ♂, 19.vi.2000, 2 ♂♂, P. Kment lgt., 24.vii.2000, 1 ♂, I. Malenovský lgt. (PKPC). Suchovské Mlýny, sheep pasture (226), 23.vi.2004, 1 ♂, 1.x.2004, 1 ♂, I. Malenovský lgt. (PKPC). Suchovské Mlýny, meadow (227), 26.v.2005, 1 ♂, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread in xerothermic localities throughout the area. **General distribution:** West Eurosiberian, extending to Maghreb, the Near East and Iran. **Biology and habitat:** On Fabaceae. Common at lower and medium altitudes in open, warm and dry localities, absent from higher altitudes (STEHLÍK 1988, WACHMANN *et al.* 2007). **Red List status:** –.

Coriomeris scabricornis scabricornis (Panzer, 1809)

(CR)

Published record. BALTHASAR (1942): Luhačovice (68–6972).

Additional material examined. BOHEMIA: Tuhaň, Tuhaň NM (5753), sands, 23.v.2008, 1 ♂, Z. Papoušek lgt. (PKPC). Lázně Bohdaneč (5960), 4.viii.2000, 1 ♀, J. Dolanský lgt. et det., P. Kment revid. (VMPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, not collected in the course of the recent survey. **General distribution:** Holopalaeartic (except North Africa). **Biology and habitat:** On Fabaceae (e.g. *Trifolium* and *Medicago*), Lamiaceae (*Thymus*, *Ajuga*) and Asteraceae (*Artemisia*, *Helichrysum*) (STEHLÍK 1988, WACHMANN *et al.* 2007). Inhabiting mainly aeolian sands in Moravia, but also found in xerothermic habitats on rocky substrates, largely restricted to the Pannonicum (STEHLÍK 1988). **Red List status:** Critically endangered.

Comments. *Coriomeris scabricornis* used to be quite a common species on suitable localities in southern Moravia until 1970s, but disappeared in 1980s and has not been found in Moravia since 1986 (STEHLÍK 1988). The most recent published record for Bohemia comes from Pňov (5956) near Nymburk; the specimen was collected in 1995 (RUS 2005). Two additional recent records from Bohemia are provided here. In Germany, the species is more common in the north and east than in the south and west, and is more common in the lowlands of northern Germany than *C. denticulatus* (WACHMANN *et al.* 2007). This distribution pattern may suggest its recent retreat due to a warming of the climate.

Gonocerus acuteangulatus (Goeze, 1778)

Published records. STEHLÍK (1988): Starý Hrozenkov (7073); Radějov, Holý vrch hill (189). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 3.–23.vi.2008, Mt, 1 ♀, 23.vi.–16.vii.2008, Mt, 2 ♂♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nedašov, Jalovcová stráň NR (54) and along road to Nedašov (52), 10.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♂,

True bugs (Hemiptera: Heteroptera)

P. Kment & I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 19.vi.–11.vii.2007, Mt, 1 ♂, 21.viii.–12.ix.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Radějov, Žerotín NM (188), 4.–26.vi.2008, Mt, 2 ♂♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Měsíční údolí valley (214), 8.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt. (PKPC). Radějov, Kútky NR (217), 26.vi.–15.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 18.iv.2000, 1 ♂, P. Kment & I. Malenovský lgt., 17.ix.2004, 1 ♀, M. Horsák lgt. (PKPC); 30.vi.–1.vii.2008, at night, 1 ♂, Z. Malinka lgt. (ZMOC); 12.v.–2.vi.2009, Mt, 1 ♂, 2.–25.vi.2009, Mt, 2 ♀♀, 25.vi.–15.vii.2009, Mt, 9 ♂♂ 6 ♀♀, 15.vii.–6.viii.2009, Mt, 2 ♂♂, 6.–24.viii.2009, Mt, 1 ♀, 24.viii.–14.ix.2009, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Javorník, Nad Vápenkou NM (236), 7.ix.2002, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Machová NR (259), 2.–22.viii.2007, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt., 5.–24.v.2010, Mt, 1 ♀, 24.v.–15.vi.2010, Mt, 1 ♂, 15.vi.–13.vii.2010, Mt, 1 ♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread in xerothermic localities throughout the area, most records coming from its southern part. **General distribution:** North Mediterranean, extending to western and central Europe, and Central Asiatic. **Biology and habitat:** Developing on *Rhamnus cathartica* and *Frangula alnus*, rarely also on other shrubs and deciduous trees (especially those bearing berries) or Cupressaceae. A thermophilous species, avoiding mountain regions. Widespread, not rare (STEHLÍK 1988, 1998a; WACHMANN *et al.* 2007). **Red List status:** –.

Gonocerus juniperi Herrich-Schaeffer, 1839

Material examined. Luhačovice, Aloiska spring environs (1), on introduced Cupressaceae, 12.v.2001, 2 ♂♂, M. Horsák & J. Horsáková lgt. (PKPC). Nedašov, village (51), at church, on *Thuja occidentalis*, 17.viii.2006, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), on *Juniperus communis*, 25.viii.2002, 1 ♂, P. Kment lgt., 16.vi.2006, 1 ♂, I. Malenovský lgt., 16.viii.2006, 1 L, P. Kment lgt. (PKPC). Horní Němčí, Drahy NR (117), on *Juniperus communis*, 21.ix.2001, 2 ♀♀, P. Kment lgt. (PKPC). Hrubá Vrbka, village (212), on *Thuja occidentalis*, 20.ix.2001, 2 ♀♀ (1 ♀ freshly hatched), P. Kment lgt. (PKPC). Velká nad Veličkou, old cemetery (223), 19.vi.2000, on *Thuja* sp., 1 L3, 18.viii.2000, 1 ♂, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), on *Pinus sylvestris*, 19.vi.2000, 1 L5, P. Kment lgt. (PKPC). Javorník, village (239), on *Thuja* sp., 8.viii.2001, 1 ♂, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, both in natural as well as synanthropic habitats. **General distribution:** Holomediterranean, extending to central Europe, and Central Asiatic. **Biology and habitat:** On Cupressaceae; rare on native *Juniperus communis* under natural conditions, recently more common on non-native cultivated species (e.g. *Thuja occidentalis*) in towns and villages (STEHLÍK 1988, 1998a; WACHMANN *et al.* 2007). We collected one larva (L5) also on *Pinus sylvestris*. **Red List status:** –.

Leptoglossus occidentalis Heidemann, 1910

Published records. KMENT *et al.* (2008), HRADIL *et al.* (2008): Luhačovice, building of the Bílé Karpaty PLA Management (2); Velká nad Veličkou, in a house (7171). HRADIL *et al.* (2008): Lipov (7171).

Material examined. Luhačovice, building of the Bílé Karpaty PLA Management (2), 2.x.2009, 1 spec., O. Konvička observ. & det. Radějov, Dolní Mlýny (195), porch of a cottage (48°51'01.89"N 17°21'48.8"E), 15.viii.2010, 1 spec., R. Dohnal observ. & det.

Distribution and frequency in the Bílé Karpaty PLA: Rare at present, but probably expanding. **General distribution:** Nearctic (native to western Canada and the United

States); introduced to Europe and Japan. **Biology and habitat:** On various conifers. Euryecious, although most common in urban habitats; commonly seeking hibernation sites in buildings (e.g. WACHMANN *et al.* 2007, FENT & KMENT 2011). **Red List status:** Not evaluated.

Comments. An alien species, found in the Czech Republic for the first time in Brno in 2006; subsequently it has quickly spread throughout the entire country (KMENT *et al.* 2008, HRADIL *et al.* 2008).

Syromastus rhombeus (Linnaeus, 1767)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 1 ♂ 1 L5, P. Kment lgt. (PKPC). Suchovské Mlýny, sheep pasture (226), 1.x.2004, 1 ♂, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only in three xerothermic localities in the central and southern parts of the area. **General distribution:** West Palaearctic. **Biology and habitat:** On Caryophyllaceae. Common in xerothermic habitats, sporadic or absent at higher altitudes (STEHLÍK 1988, WACHMANN *et al.* 2007). **Red List status:** –.

Ulmicola spinipes (Fallén, 1807)

Published record. STEHLÍK (1988): Luhačovice (68–6972).

Material examined. Nedašov, Kaňoury NM (55), 17.vi.2006, 1 ♂, I. Malenovský lgt. (PKPC). Vyškovecké Bošacky, cattle pasture (179), 19.viii.2004, 1 ♂, P. Kment lgt. (PKPC). Vyškovecké Bošacky, meadow and orchard (180), 19.viii.2004, 2 ♂♂ 1 ♀ (1 ♀ freshly hatched), P. Kment lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♂, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 6.v.2000, on old skull of *Ovis musimon*, 3.v.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Suchovské Mlýny, sheep pasture (226), 6.v.–4.vi.2005, pt, 1 ♀, K. Resl lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** Eurosiberian. **Biology and habitat:** On Fabaceae (e.g. *Trifolium*, *Medicago*, *Melilotus*) (STEHLÍK 1988, WACHMANN *et al.* 2007). In dry to slightly humid, sunlit habitats, preferring higher altitudes (WACHMANN *et al.* 2007). Rare in Moravia, found in hilly landscapes in moderately warm climatic regions (STEHLÍK 1988). **Red List status:** –.

Family PLATASPIDAE

Coptosoma (Coptosoma) scutellatum (Geoffroy, 1785)

Published records. STEHLÍK (1981): Luhačovice, Luhačovická dolina valley (62); Štítná nad Vláří – Popov, Havránkův potok brook (71); Korytná (7071–72); Radějov, Holý vrch hill (189); Kněždub, Čertoryje NNR (202); Javorník (7171); Nová Lhota, Fojtičky mill [= Fojtické Mlýny] (245). KMENT (2001), KMENT & VILÍMOVÁ (2010a,b): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 1 ♂, M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Brumov, Uhličky (44), 28.vii.2005, 1 ♂, P. Kment lgt. (PKPC). Valašské Valašské Klobouky, Bílé

True bugs (Hemiptera: Heteroptera)

potoky NR (46, 47, 48), 30.vi.1999, 1 ♀, M. Horsák & P. Kment lgt., 14.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráň NR (54), 3.vii.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., 25.viii.2002, 1 ♂, P. Kment lgt., 30.vi.2004, 1 ♀, 28.vii.2005, 1 ♂ 3 ♀♀, 6.ix.2005, 1 ♂, I. Malenovský lgt., 16.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., 16.viii.2006, 2 ♀♀, P. Kment lgt. (PKPC). Brumov, Kloboucká street (76), 30.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♀, 18.viii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Bylnice, railway station environs (83), 1.vii.1999, 1 ♂ 1 ♀, P. Kment & M. Omesová lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 28.vii.2005, 1 ♀, I. Malenovský lgt. (PKPC). Lipov, Pešunk (100), 27.vi.2008, 1 ♂ 2 ♀♀, 10.vii.2009, 3 ♂♂ 2 ♀♀, Z. Malinka lgt. (ZMOC), 1 ♀ NMPC). Hluk, Kobyli hlava NM (101), 24.viii.2002, 1 ♀, I. Malenovský lgt. (PKPC). Hluk, Babí hora NM (102), 24.viii.2002, 1 ♀, I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 16.viii.2009, 4 ♂♂ 2 ♀♀, P. Baňaf lgt. et det. (MMBC). Horní Němčí, Drahy NR (117), 30.vi.2001, 2 ♂♂ 2 ♀♀, P. Kment & I. Malenovský lgt., 13.viii.2001, 1 ♂ 2 ♀♀, P. Kment lgt., 21.vii.2002, 6 ♀♀, I. Malenovský lgt. (PKPC). Lopeník, U Zvonice NM (155), 24.vii.2005, 2 ♂♂, I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 29.v.–19.vi.2007, Mt, 1 ♀, 19.vi.–11.vii.2007, Mt, 4 ♀♀, 11.–31.vii.2007, Mt, 1 ♂ 5 ♀♀, 31.vii.–21.viii.2007, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 3 ♀♀, 8.viii.2007, 3 ♀♀, P. Kment lgt. (PKPC). Vyškovské Bošacký, meadow and orchard (180), 19.viii.2004, 6 ♂♂ 6 ♀♀, 24.vii.2005, 4 ♂♂ 5 ♀♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 11.vii.1998, 2 ♂♂, P. Kment lgt. (PKBC, PSBC); 26.vi.–14.vii.2008, Mt, 1 ♀, 14.vii.–5.viii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Dolní Mlýn (195), 11.vii.1998, P. Kment observ. (PKPC). Kněždub, Kněždubský háj forest (197), 8.vii.2000, 1 ♂, 17.viii.2000, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 28.vii.2001, 2 ♀♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 28.vii.2001, 1 ♀, I. Malenovský lgt. (PKPC). Hrubá Vrbka, football ground (211), 19.vi.2000, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., 8.vii.2000, numerous spec., P. Kment observ., 16.viii.2000, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Radějov, Kůtky NR (217), 4.–26.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 13.vii.1998, 1 ♂ 1 ♀ in copula, 19.vi.2000, 1 ♂ 1 ♀, P. Kment lgt., 24.vii.2000, 1 ♀, I. Malenovský lgt., 18.viii.2000, 3 ♂♂ 2 ♀♀, P. Kment lgt., 9.–10.ix.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 30.vi.2008, 1 ♂ 2 ♀♀, Z. Malinka lgt. (ZMOC); 25.vi.–15.vii.2009, Mt, 1 ♂ 4 ♀♀, 15.vii.–6.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 27.vii.2005, 1 ♂ 5 ♀♀, 1.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Suchovské Mlýny, meadow (227), 27.vii.2005, 2 ♂♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 16.viii.2004, on *Ononis spinosa*, 1 ♂, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 19.vi.2000, 2 ♂♂ 1 ♀, I. Malenovský lgt., 18.viii.2000, 2 ♂♂, P. Kment lgt., 10.ix.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 25.vi.–15.vii.2009, Mt, 1 ♀, 15.vii.–5.viii.2009, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Nad Vápenkou NM (236), 7.ix.2002, 2 ♀♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♂, P. Kment & I. Malenovský lgt., 8.viii.2001, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Javorník, railway station (237), 9.vii.1998, several spec., P. Kment observ. Nová Lhota, Vápenky, left-side tributary of Velička river (252), 15.vii.–5.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 9.vii.1998, 1 ♂, P. Kment lgt. (PKPC); 15.vi.–13.vii.2010, Mt, 2 ♂♂, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common in warm sites throughout the area. **General distribution:** Eurosiberian, extending to Maghreb, Anatolia, Transcaucasia and Iran. **Biology and habitat:** On Fabaceae (e.g. *Coronilla varia*, *Medicago*, *Lotus*, *Astragalus*, *Vicia*, *Onobrychis*, *Genista*, and *Ononis*) in xerothermic habitats. Common (STEHLÍK 1981, WACHMANN *et al.* 2008). **Red List status:** –.

Family CYDNIDAE

Adomerus biguttatus (Linnaeus, 1758)

(VU)

Published records. STEHLÍK (1983): Brumov, Na Tatrách [= Holý vrch hill] (79); Radějov, Holý vrch hill (189); Kněždub, Čertoryje NNR (202).

Material examined. Suchovské Mlýny, meadow (227), 23.vi.2004, 3 ♀♀, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** Eurosiberian, extending to Maghreb and Transcaucasia.

Biology and habitat: On and under *Melampyrum* (*M. arvense*, *M. nemorosum*, *M. pratense*), rarely on other Scrophulariaceae (*Rhinanthus*), in open as well as half-shaded habitats, dry to slightly humid, e.g. forest clearings, glades, shrubby slopes, and mountain meadows. Found from 200 m a.s.l. to highest mountain peaks in Moravia. Quite rare (STEHLÍK 1983, WACHMANN *et al.* 2008). **Red List status:** Vulnerable.

Canthophorus dubius (Scopoli, 1763)

(VU)

Published records. STEHLÍK (1983): Kněždub, Čertoryje NNR (202); Javorník (7171); Nová Lhota, Fojtičky mill [= Fojtické Mlýny] (245); Velká nad Veličkou (towards Javorník) (240).

Material examined. Horní Němčí, Drahy NR (117), 7.vi.1997, 1 ♀, J. Holuša jun. (MBFC); 15.v.1998, on *Thesium linophyllum*, 2 ♂♂ 3 ♀♀, M. Horsák, J. Horsáková & P. Kment lgt. (PKPC, PSBC); 13.viii.2001, 1 ♀, 23.v.2002, 4 ♂♂ 1 ♀, P. Kment lgt., 21.vii.2002, 1 ♀, I. Malenovský lgt. (PKPC). Radějov, Žerotín NM (188), 11.vii.1998, 1 ♀, P. Kment lgt. (PKPC); 26.vi.–14.vii.2008, Mt, 2 ♂♂ 1 ♀, 14.vii.–5.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), on *Thesium linophyllum*, 14.v.1998, 3 ♂♂ 3 ♀♀, M. Horsák & P. Kment lgt. (MHBC, PKPC). Suchovské Mlýny, meadow (227), 26.v.2005, 1 ♀, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread in xerothermic localities in the southern part of the area. **General distribution:** European, extending to the Near East and Iran. **Biology and habitat:** On *Thesium* (especially *T. linophyllum*, but also *T. alpinum* and *T. pyrenaicum*) in xerothermic localities in hilly landscapes, in dry grassland as well as meadows; more thermophilous than *C. impressus*. Rare (STEHLÍK 1983, WACHMANN *et al.* 2008). **Red List status:** Vulnerable.

Canthophorus impressus (Horváth, 1880)

(NT)

Published records. STEHLÍK (1973): [Horní Němčí], Lesná hill (123). STEHLÍK (1983): Kněždub, Čertoryje NNR (202); Javorník (7171); Javorník, Výzkum hill (258); Nová Lhota, Fojtičky mill [= Fojtické Mlýny] (245); Velká nad Veličkou (towards Javorník) (240). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Horní Němčí, Drahy NR (117), 15.v.1998, on *Thesium linophyllum*, 1 ♀, P. Kment lgt., 30.vi.2001, 2 ♂♂ 8 ♀♀, P. Kment & I. Malenovský lgt., 23.v.2002, 1 ♂ 14 ♀♀, P. Kment lgt., 21.vii.2002, 2 ♂♂, I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.v.1998, on *Thesium linophyllum*, 1 ♂, P. Kment lgt., 18.iv.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 6.–24.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, meadow (227), 26.v.2005, 1 ♀, 27.vii.2005, 1 ♂, 1.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, loampit (235), 24.v.2002, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 3.v.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 23.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Machová NR (259), 9.vii.1998, 1 ♂, P. Kment lgt. (PKPC). Strání, Záhumenice NM (266), 2.vii.2001, 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread in xerothermic localities in the southern part of the area. **General distribution:** Eurosiberian, extending to Transcaucasia. **Biology and habitat:** On *Thesium* (especially *T. linophyllum*, but also *T. alpinum* and *T. bavarum*) in xerothermic localities in hilly landscapes, in dry grassland as well as meadows. Rare (STEHLÍK 1983, WACHMANN *et al.* 2008). **Red List status:** Near-threatened.

***Legnotus limbosus* (Geoffroy, 1785)**

Material examined. Petrůvka, Kladenska brook valley (64), 13.v.–3.vi.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 8.–28.v.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, collected with Malaise traps only, rare. **General distribution:** West Palaearctic. **Biology and habitat:** On *Galium* spp. (e.g. *G. verum*, *G. aparine*, *G. mollugo*), rarely on Lamiaceae; especially the larvae dwell on the ground under the host plants. In warm, dry to humid sites, open habitats as well as forest undergrowth, including floodplain forests. Widespread, not rare (STEHLÍK 1983, ŠTEPANOVIČOVÁ & DEGMA 1999, WACHMANN *et al.* 2008). **Red List status:** –.

***Sehirus luctuosus* Mulsant et Rey, 1866**

Material examined. Malá Vrbka, Výzkum hill, restored grassland (208), 5.v.2000, 3 ♂♂, I. Malenovský lgt., 25.v.2000, 2 ♀♀, 2.v.2001, 2 ♂♂, 28.vii.2001, 2 ♂♂, P. Kment lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook NW of Machová hill (257), on a stone on the bank, 14.v.1998, 1 ♂, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only in two sites in the southern part of the area. **General distribution:** West Palaearctic. **Biology and habitat:** On Boraginaceae (*Echium*, *Myosotis*, *Anchusa*), but both larvae and adults are also found under/on *Verbascum* and *Cerastium*. In xerothermic, open habitats, especially on sandy substrates, often in ruderal sites or forest clearings. Widespread, not rare (STEHLÍK 1983, WACHMANN *et al.* 2008). **Red List status:** –.

***Sehirus morio* (Linnaeus, 1761)**

(EN)

Published record. DLABOLA (1943): Javorník (7171).

Material examined. Brumov, Holý vrch hill (79), 14.vi.1971, 2 ♀♀, L. Pospíšilová lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, not collected during the present survey. **General distribution:** Holopalaearctic (except easternmost Asia). **Biology and habitat:** On Boraginaceae (*Echium*, *Anchusa*, *Cynoglossum*, *Borago*), also found under *Verbascum thapsus*, preferring xerothermic habitats on sandy substrates. In Moravia found from plains to mountain tops. Very rare (STEHLÍK 1983, WACHMANN *et al.* 2008). **Red List status:** Endangered.

***Tritomegas bicolor* (Linnaeus, 1758)**

Material examined. Louka, Hloží NR (106), 24.iv.1999, 1 ♂, M. Horsák lgt. (PKPC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Malá Vrbka, between village and Výzkum hill (205), on *Ballota nigra*, 17.viii.2000, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 28.vii.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 8.iv.–5.v.2000, 1 ♂, P. Bezděčka lgt., 18.vi.2000, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Hrubá Vrbka, football ground (211), on *Ballota nigra*, 8.vii.2000, 1 ♂, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 1 ♀, P. Kment lgt. (PKPC); 8.iv.–12.v.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232),

6.iv.–12.v.2009, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 12.iv.–8.v.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 9.vii.–12.viii.2010, Mt, 1 ♂ 1 ♀, 12.viii.–9.ix.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread in the southern part of the area. **General distribution:** Holopalaeartic. **Biology and habitat:** On Lamiaceae, mostly *Lamium* (*L. album*, *L. maculatum*, *L. purpureum*), rarely on *Stachys*, *Ballota nigra*, or *Ajuga*. In open or half-shaded habitats, dry to humid, such as open woodland, forest margins and tall ruderal vegetation. Quite widespread in Moravia, although sporadic in cold regions (STEHLÍK 1983, WACHMANN *et al.* 2008). **Red List status:** –.

Tritomegas sexmaculatus (Rambur, 1839)

Material examined. Petrůvka, U Petrůvký NM (14), 13.v.–3.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Bylnice, railway station environs (83), 21.v.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Louka, Hloží NR (106), 24.iv.1999, 4 ♂♂ 2 ♀♀, M. Horsák lgt. (MHBC, PKPC, VURV). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 1 ♀, P. Kment lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 14.v.–4.vi.2008, Mt, 5 ♂♂ 2 ♀♀, 5.–26.viii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 25.v.–15.vi.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, between village and Výzkum hill (205), on *Ballota nigra*, 16.viii.2000, 1 ♀, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), on *Ballota nigra*, 8.vii.2000, 1 ♀ 9 spec., P. Kment lgt. (PKPC). Javorník, village (239), on *Ballota nigra*, 8.viii.2001, 1 ♀, P. Kment lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 24.v.–15.vi.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 25.v.1999, 1 ♀, H. Hiršová lgt. (MUBC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, although it is rare in its central and northern parts. **General distribution:** North Mediterranean, extending to central Europe and Iran. **Biology and habitat:** On *Ballota nigra*, rarely on other Lamiaceae (*Lamium*, *Stachys*) in forest undergrowth and ruderal sites; a more xero- and thermophilous species than *T. bicolor*. Common (STEHLÍK 1983, WACHMANN *et al.* 2008). **Red List status:** –.

Family THYREOCORIDAE

Thyreocoris fulvipennis (Dallas, 1851)

Published record. KMENT *et al.* (2003): Kněždub, Járkovec brook valley below Čertoryje NNR (202).

Material examined. Radějov, Žerotín NM (188), 26.vi.–14.vii.2008, Mt, 1 ♂ 3 ♀♀, 14.vii.–5.viii.2008, Mt, 3 ♂♂ 5 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Kútky NR (217), 26.vi.–15.vii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Additional material examined. MORAVIA: Brno – Černovice, Černovická pískovna sand-pit (6865), 1.v.2012, 1 ♂, P. Kment lgt. (PKPC). Dolní Dunajovice, Dunajovické kopce NNM (7165), 12.v.2003, 1 ♂, S. Bílý lgt. (NMPC). Sedlec, Skalky (7266, N 48°46'35" E16°40'12"), 20.iv.2010, 1 ♀, J. Dolanský (VMPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only at three xerothermic sites in the southernmost part of the PLA. **General distribution:** West and North Mediterranean, extending to the Pannonicum. **Biology and habitat:** On and under

Viola tricolor. In xerothermic habitats (e.g. dry grassland on sand) (ŠTYS & DAVIDOVÁ 1980). **Red List status:** –.

Comments. *Thyreocoris fulvipennis* was recorded for the Czech Republic for the first time by STEHLÍK (1998b, as *T. fulvinervis*) from southernmost Moravia (the environs of Poštorná, 7267). In subsequent years, it has been rapidly spreading in southern and central Moravia (e.g. KMENT & BRYJA 2001, as *T. fulvinervis*; BRYJA *et al.* 2002, as *T. fulvinervis*; KMENT *et al.* 2003; HRADIL *et al.* 2008).

Thyreocoris scarabaeoides (Linnaeus, 1758)

Material examined. Nedašov, Jalovcová stráž NR (54), 20.v.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Radějov, Žerotín NM (188), 19.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Suchovské Mlýny, sheep pasture (226), 26.v.2005, 1 ♀, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** West Eurosiberian, extending to Maghreb and Anatolia. **Biology and habitat:** On and under *Viola* (*V. tricolor*) and some other plants in xerothermic localities, especially on sandy substrates; often found in plant litter. Quite common (ŠTYS & DAVIDOVÁ 1980, STEHLÍK 1983, WACHMANN *et al.* 2008). **Red List status:** –.

Family SCUTELLERIDAE

Eurygaster austriaca (Schrank, 1778)

(NT)

Published records. STEHLÍK (1995a): Bánov, Skalky hill (125). KMENT (2001): Kněždub, Čertoryje NNR (202). **Material examined.** Malá Vrbka, Výzkum hill, restored grassland (208), 28.vii.2001, 1 ♂, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, scattered throughout the area except its north-eastern part. **General distribution:** Holomediterranean, extending to western and central Europe. **Biology and habitat:** On Poaceae, older larvae and young adults suck on plants of various other families. Euryecious, distributed from lowlands to mountain regions (up to 1330 m a.s.l.). Rare, possibly retreating (STEHLÍK 1995a, WACHMANN *et al.* 2008). **Red List status:** Near-threatened.

Comments. The West-Mediterranean subspecies *Eurygaster austriaca seabrai* China, 1938 was re-synonymised with the nominotypical subspecies by RIEGER (2011).

Eurygaster maura (Linnaeus, 1758)

Published records. STEHLÍK (1995a): Boršice [u Blatnice] (towards Hluk) (105); Radějov (7170); Velká nad Veličkou (7171). KMENT (2001): Kněždub, Čertoryje NNR (202). KMENT & VILÍMOVÁ (2010b): Horní Němčí, Drahy NR (117).

Material examined. Petrůvka, U Petrůvky NM (14), 6.viii.1999, 1 ♀, P. Kment lgt. (PKPC). Poteč, Ploščiny NR (42), 1.vi.2002, 2 ♂♂ 1 ♀, I. Malenovský lgt., 24.viii.2002, 2 ♀♀, 17.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Brumov, Uhlíčky (44), 1.ix.2004, 2 ♀♀, I. Malenovský lgt., 28.vii.2005, 1 ♂, 4.ix.2005, 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 14.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Nedašov,

Jalovcová stráň NR (54), 25.viii.2002, 1 ♂ 1 ♀, P. Kment lgt., 1.ix.2004, 1 ♂, I. Malenovský lgt., 16.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♂, 18.viii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 5.x.2004, 1 ♀, I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR (117), 13.viii.2001, 1 ♂ 1 ♀, 21.ix.2001, 1 ♂, 23.v.2002, 1 ♂, P. Kment lgt., 21.vii.2002, 7 ♂♂ 5 ♀♀, I. Malenovský lgt. (PKPC). Lopeník (152), 8.vi.1999, 1 ♀, K. Hradil lgt. et det. (KHMC). Lopeník, U Zvonice NM (155), 3.ix.2005, 1 ♂, P. Kment lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 18.viii.2004, 1 ♀, P. Kment lgt. (PKPC). Výškovce, Pod Hřibovňou NM (176), 28.vi.2004, 3 ♀♀, I. Malenovský lgt. (PKPC). Výškovce, cattle pasture (179), 3.ix.2005, 1 ♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Výškovce, Bošačky, meadow and orchard (180), 19.viii.2004, 1 ♂, P. Kment lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 19.viii.2002, 2 ♂♂, P. Kment lgt. (PKPC); 14.v.–4.vi.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Kněždubský háj forest (197), 20.ix.2001, 1 ♂, M. Omesová lgt. (MUBC). Kněždub, Čertoryje NNR (202), 22.vi.2001, 1 ♂, P. Kment lgt., 18.v.2002, 3 ♀♀, I. Malenovský lgt., 28.vii.2001, 1 ♂ 2 ♀♀, 17.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 25.v.2000, 1 ♂ 6 ♀♀, 27.vii.2000, 2 ♀♀, I. Malenovský lgt., 16.viii.2000, 1 ♂, P. Kment lgt., 1.x.2000, 1 ♂, 22.vi.2001, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt., 28.vii.2001, 4 ♂♂ 5 ♀♀, 17.viii.2002, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 16.viii.2000, 1 ♀, P. Kment lgt. (PKPC). Radějov, Měsíční údolí valley (214), 8.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt. (PKPC); along road to Radějov, 16.viii.2009, 1 ♀, P. Kment lgt. (PKPC). Radějov, Kútky NR (217), 15.vii.–5.viii.2008, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 13.vii.1998, 1 ♂, P. Kment lgt., 18.iv.2000, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt., 19.vi.2000, 1 ♂ 3 ♀♀, P. Kment lgt. (PKPC); 17.ix.2004, 1 ♂, M. Horsák lgt. (MHBC); 6.–24.viii.2009, Mt, 1 ♀, 24.viii.–14.ix.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 23.vi.2004, 1 ♀, 16.viii.2004, 1 ♂ 2 ♀♀, 27.vii.2005, 1 ♂, I. Malenovský lgt. (PKPC). Suchovské Mlýny, meadow (227), 27.vii.2005, 1 ♂, I. Malenovský lgt. (PKPC). Trnovský Mlýn, meadow (229), 23.vi.2004, 1 ♀, 1.ix.2005, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 15.vii.–5.viii.2009, Mt, 1 ♀, 14.ix.–22.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♀, I. Malenovský lgt., 8.viii.2001, 1 ♂, P. Kment lgt., 17.vii.2002, 1 ♂, 7.ix.2002, 1 ♀, 23.vi.2004, 1 ♀, 2.ix.2004, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 24.v.2002, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Machová NR (259), 10.viii.–7.ix.2010, Mt, 1 ♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 9.viii.2001, 1 ♀, P. Kment lgt., 21.ix.2001, 1 ♀, 20.vii.2002, 2 ♂♂, I. Malenovský lgt. (PKPC). Strání, Záhumenice NM (266), 22.vi.–24.vii.2003, pt, 2 ♀♀, K. Resl lgt. (PKPC). Strání, Nová hora NR (268), 25.v.1999, 1 ♂, H. Hiršová lgt. (PKPC). Strání, Javorina NNR, meadow (270), 4.vii.2001, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 15.vii.–6.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: West Palaearctic, extending to East Siberia. **Biology and habitat:**

On Poaceae (*Agrostis*, *Bromus*, *Dactylis*, *Festuca*, cultivated cereals, etc.), older larvae and adults also on other plants. Euryecious, although it prefers drier places than *E. testudinaria*. Very common (STEHLÍK 1995a, WACHMANN *et al.* 2008). **Red List status:** –.

Eurygaster testudinaria testudinaria (Geoffroy, 1785)

Published records. STEHLÍK (1995a): Lipová (towards Haluzice) (16); Hrádek (towards Hostětín) [= Rokytnice, Bukovina hill] (6973a4); Bylnice (6974); Sidonie (6974); Horní Němčí (7071); Strání (70–7172); Kněždub (7170); Javorník (7171); Nová Lhota (7171); Velká nad Veličkou (7171). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 6.viii.1999, 1 ♂, P. Kment lgt. (PKPC); 13.v.–3.vi.2008, Mt, 1 ♀, 4.–25.viii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 19.v.1999, 1 ♂, P. Kment & I. Malenovský lgt., 30.vi.1999, 1 ♀, M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 22.v.1999, 1 ♂ 4 ♀♀, 2.vii.1999, 1 ♂, P. Kment & I.

Malenovský lgt., 10.ix.1999, 2 ♀♀, I. Malenovský & T. Vymyslický lgt., 1.x.2007, 1 ♂, O. Konvička lgt. (PKPC). Poteč, Ploštiny NR (42), 13.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt., 24.viii.2002, 1 ♂, P. Kment lgt., 17.viii.2006, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Brumov, Uhlíčky (44), 28.v.2005, 1 ♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 16.vi.2006, 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 14.viii.2006, 3 ♂♂ 2 ♀♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, meadow (48), 19.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Hrušová dolina valley (53), 3.vii.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráň NR (54), 20.v.1999, 3 ♂♂, 3.vii.1999, 1 ♂ 3 ♀♀, P. Kment & I. Malenovský lgt., 25.viii.2002, 1 ♂ 1 ♀, P. Kment lgt., 30.vi.2004, 1 ♀, 28.v.2005, 1 ♂, 28.vii.2005, 1 ♀, I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráň NR (54) and along road to Nedašov (52), 10.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Kaňoury NM (55), 20.v.1999, 1 ♂, 3.vii.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., 17.vi.2006, 1 ♂, I. Malenovský lgt., 12.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt., 16.viii.2006, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Petrůvka, Kladenka brook valley (64), 4.–25.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Brumov, Kloboucká street (76), 28.vii.2005, 1 ♂, P. Kment lgt. (PKPC). Bylnice, Lazy NR and environs (82), 12.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 5.x.2004, 1 ♂, I. Malenovský lgt. (PKPC). Hluk, Kobylí hlava NM (101), 24.viii.2002, 1 ♂, I. Malenovský lgt. (PKPC). Suchov, Kazivec brook valley (116), 9.ix.1998, 1 ♂ 1 ♀, I. Malenovský & M. Omesová lgt. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♀, P. Kment & I. Malenovský lgt., 21.vii.2002, 2 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Březová, Kalábová NM (137), 4.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Březová, spring fen ca. 600 m SE below Studený vrch hill (138), 5.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Lopeník, U Zvonice NM (155), 27.vi.2004, 1 ♂, I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 2 ♂♂ 1 ♀, 9.–29.v.2007, Mt, 1 ♂ 2 ♀♀, 29.v.–19.vi.2007, Mt, 1 ♀, 11.–31.vii.2007, Mt, 2 ♂♂ 1 ♀, 31.vii.–21.viii.2007, Mt, 4 ♂♂ 5 ♀♀, 21.viii.–12.ix.2007, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♂, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Vyškovec, Pod Hřibovňou NM (176), 28.vi.2004, 1 ♂ 1 ♀, I. Malenovský lgt., 25.ix.2004, 1 ♀, P. Kment lgt., 3.ix.2005, 4 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Vyškovské Bošačky, meadow and orchard (180), 21.v.2005, 2 ♂♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Kněždub, Kněždubský háj forest (197), 8.vii.2000, 1 ♂ 1 ♀, 17.viii.2000, 1 ♂, P. Kment lgt. (PKPC); 20.ix.2001, 1 ♀, M. Omesová lgt. (MUBC). Tvarožná Lhota, Lučina reservoir (199), 13.v.1998, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 27.vi.2002, 1 ♀, I. Malenovský lgt. (PKPC). Radějov, Mandát brook valley below Kútky NR (218), 26.vi.–15.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.v.1998, 1 ♂ 1 ♀, P. Kment lgt. (MHBC); 13.vii.1998, 3 ♂♂ 1 ♀, 19.vi.2000, 4 ♂♂ 10 ♀♀, 18.viii.2000, 2 ♂♂, P. Kment lgt., 9.–10.ix.2000, 4 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 30.vi.–1.vii.2008, at night, 1 ♀, Z. Malinka lgt. (ZMOC); 7.iv.–5.v.2010, Mt, 1 ♂, P. Chvojka & M. Macek lgt. (NMPC). Suchovské Mlýny, meadow (227), 27.vii.2005, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 15.vii.1998, 1 ♀, P. Šmarda lgt. (PSBC); 6.v.2000, 1 ♂ 1 ♀, 19.vi.2000, 2 ♂♂ 1 ♀, I. Malenovský lgt., 18.viii.2000, 8 ♂♂ 6 ♀♀, P. Kment lgt., 10.ix.2000, 3 ♂♂ 1 ♀, 3.v.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC); 5.–24.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, loampit (235), 24.v.2002, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 23.vi.2004, 1 ♀, 2.ix.2004, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 3.v.2001, 2 ♂♂, P. Kment & I. Malenovský lgt., 29.vi.2001, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Vápenky, Porážky NNR (247), 15.vii.1998, 1 ♂, 9.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt. (PKPC). Vápenky, Velička brook valley below Hubertova bouda hut (253), 21.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Vápenky, Velička brook valley above Hubertova bouda hut (254), 12.vii.1998, 1 ♀, P. Kment lgt. (PKPC). Javorník, Machová NR (259), 14.v.1998, 1 ♂ 6 ♀♀, 9.vii.1998, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Strání, Mechnáčky NM (264), pool, 2.vi.2007, 1 ♀, P. Komzák lgt. (PKBC). Strání, Záhumenice NM (266), 23.v.2002, 1 ♀, P. Kment lgt. (PKPC). Strání, Nová hora NR (268), 25.v.1999, 1 ♂ 1 ♀, H. Hiršová lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Holopalaeartic. **Biology and habitat:** On Cyperaceae, Juncaceae and Poaceae. Hygrophilous, in open to half-shaded habitats, such as tall sedge stands, swamps, wet meadows and salt marshes. Common (STEHLÍK 1995a, WACHMANN *et al.* 2008). **Red List status:** –.

***Odontotarsus purpureolineatus* (Rossi, 1790) (NT)**

Material examined. Velká nad Veličkou, Zahrady pod Hájem NNR (225), 9.–10.ix.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC); 17.ix.2004, 1 ♂ 1 ♀, M. Horský lgt. (MHBC, PKPC); 29.viii.2005, 1 ♂, M. Horský lgt. (MHBC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only in one xerothermic locality in the southern part of the area. **General distribution:** Holomediterranean, extending to central Europe, and Central Asiatic. **Biology and habitat:** A polyphagous phytophage (e.g. on *Sanguisorba*, Lamiaceae, Asteraceae, and *Linum*). In dry grassland (STEHLÍK 1995a, WACHMANN *et al.* 2008). In Moravia mostly in the Pannonicum and on its outskirts, locally common (STEHLÍK 1995a). **Red List status:** Near-threatened.

Family PENTATOMIDAE***Aelia acuminata* (Linnaeus, 1758)**

Published records. STEHLÍK (1985): Kněždub (7071), Strání (70–7172), Radějov (7071), Javorník (7171). KMENT (2001): Kněždub, Čertoryje NNR (202). KMENT & MALENOVSKÝ (2008): Strání, Záhumenice NM (266). **Material examined.** Petrůvka, U Petrůvky NM (14), 23.vi.–16.vii.2008, Mt, 2 ♀♀, 4.–25.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 19.v.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Brumovská street (30), 9.ix.1999, 2 ♀♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 22.v.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 22.v.1999, 1 ♂, P. Kment & I. Malenovský lgt., 1.x.2007, 1 ♀, O. Konvička lgt. (PKPC). Valašské Klobouky, Královec hill (33), 17.viii.2006, 1 ♂ 1 ♀, P. Kment lgt., 22.v.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, NW slope of Královec hill (35), 10.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Poteč, Ploštiny NR (42), 4.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt., 13.ix.1999, 1 ♂ 1 ♀, I. Malenovský & T. Vymyslický lgt., 1.vi.2002, 3 ♂♂ 3 ♀♀, I. Malenovský lgt., 17.viii.2006, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Brumov, Uhličky (44), 28.v.2005, 1 ♂, I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 23.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 14.viii.2006, 2 ♂♂, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, meadow (48), 19.v.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 20.v.1999, 2 ♀♀, 3.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt., 25.viii.2002, 1 ♂, P. Kment lgt., 30.vi.2004, 1 ♂, 1.ix.2004, 2 ♂♂ 1 ♀, 5.x.2004, 1 ♀, I. Malenovský lgt., 16.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54) and along road to Nedašov (52), 10.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (MUBC). Nedašov, Kaňoury NM (55), 20.v.1999, 1 ♀, 3.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt., 17.vi.2006, 1 ♀, I. Malenovský lgt., 12.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt., 16.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Petrůvka, Kladenka brook valley (64), 4.–25.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Bylnice, Na Stráži (77), 18.viii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Bylnice, Lazy NR and environs (82), 12.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Bylnice, railway station environs (83), 11.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Hluk, Kobylí hlava NM (101), 24.viii.2002, 2 ♂♂, I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 24.v.2009, 2 ♂♂ 4 ♀♀, 16.viii.2009, 4 ♂♂ 9 ♀♀, P. Baňar lgt. et det. (MMBC). Suchov, Kazivec brook valley (116), 9.ix.1998, 1 ♀, I. Malenovský & M. Omesová lgt. (PKPC). Horní Němčí, Drahy NR (117), 15.v.1998, 1 ♂, P. Kment lgt., 10.ix.1998, 2 ♀♀, I. Malenovský & M. Omesová lgt., 30.vi.2001, 1 ♂, P. Kment & I. Malenovský lgt., 13.viii.2001, 1 ♂ 4 ♀♀, 21.ix.2001, 4 ♂♂ 1 ♀, 23.v.2002, 1 ♂ 1 ♀, P. Kment lgt., 21.vii.2002, 8 ♂♂ 1 ♀, I. Malenovský lgt. (PKPC). Březová, Cestiska NM (136), 2.x.2007, 1 ♂, O. Konvička lgt. (NMPC). Březová, Kalábová NM (137), 4.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Strání, Klanečnice brook valley between village and Žabka reservoir (143), 16.v.1998, 1 ♀, P. Kment lgt. (PKPC). Strání, Obecnice hill, at transmission tower (144), 9.viii.2001, 1 L4, P. Kment lgt. (PKPC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 2 ♂♂, 8.viii.2007, 1 ♀, 22.ix.2007,

True bugs (Hemiptera: Heteroptera)

1 ♀, P. Kment lgt. (PKPC). Vyškovec, Pod Hřibovňou NM (176), 25.ix.2004, 1 ♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 19.viii.2002, 1 ♂, P. Kment lgt. (PKPC); 14.v.–4.vi.2008, Mt, 1 ♂, 26.vi.–14.vii.2008, Mt, 1 ♀, 14.vii.–5.viii.2008, Mt, 1 ♀, 5.–26.viii.2008, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Kněždubský háj forest (197), 8.vii.2000, 1 ♀, 17.viii.2000, 1 ♀, P. Kment lgt. (PKPC); 20.ix.2001, 1 ♀, M. Omesová lgt. (MUBC). Tvarožná Lhota, Lučina reservoir (199), 13.v.1998, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 8.ix.2000, 1 ♂, I. Malenovský lgt., 22.vi.2001, 1 ♂, 20.ix.2001, 1 ♀, P. Kment lgt., 18.v.2002, 4 ♂♂ 3 ♀♀, 27.vi.2002, 1 ♀, I. Malenovský lgt., 4.x.2002, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 5.v.2000, 3 ♂♂ 4 ♀♀, I. Malenovský lgt., 25.v.2000, 3 ♂♂ 10 ♀♀, P. Kment & I. Malenovský lgt., 27.vii.2000, 1 ♀, I. Malenovský lgt., 16.viii.2000, 1 ♀, P. Kment lgt., 2.v.2001, 7 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt., 28.vii.2001, 2 ♂♂ 1 ♀, P. Kment lgt., 18.v.2002, 8 ♂♂ 17 ♀♀, 27.vi.2002, 1 ♂ 1 ♀, I. Malenovský lgt., 17.viii.2002, 2 ♀♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, 200 m NW of the top (209), 13.ix.2004, 1 ♀, M. Horsák lgt. (MHBC). Hrubá Vrbka, football ground (211), 16.viii.2000, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Radějov, Měsíční údolí valley (214), 8.ix.1998, 1 ♀, I. Malenovský & M. Omesová lgt. (PKPC); 16.viii.2009, along road to Radějov, 1 ♂, P. Kment lgt. (PKPC). Radějov, Kútky NR (217), 11.vii.1998, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou (220), 29.vi.1986, 1 ♀, J. Vilímová lgt. (JVPC). Velká nad Veličkou, old cemetery (223), 18.viii.2000, 1 ♂, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.v.1998, 1 ♀, 13.vii.1998, 1 ♀, 19.vi.2000, 1 ♀, 18.viii.2000, 2 ♂♂, P. Kment lgt., 9.–10.ix.2000, 2 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 29.viii.2005, 1 ♂, M. Horsák lgt. (MHBC); 6.–24.viii.2009, Mt, 1 ♂, 24.viii.–14.ix.2009, Mt, 1 ♂, 14.ix.–20.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 26.v.2005, 1 ♂, 27.vii.2005, 1 ♂, I. Malenovský lgt. (PKPC). Trnovský Mlýn, sheep pasture (228), 16.viii.2004, 1 ♂, P. Kment lgt. (PKPC). Trnovský Mlýn, meadow (229), 1.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 6.v.2000, 1 ♂, 19.vi.2000, 1 ♀, I. Malenovský lgt., 18.viii.2000, 10 ♂♂ 3 ♀♀, P. Kment lgt., 10.ix.2000, 2 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 25.vi.–15.vii.2009, Mt, 1 ♀, 24.viii.–14.ix.2009, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, loampit (235), 24.v.2002, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Nad Vápenkou NM (236), 7.ix.2002, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♀, I. Malenovský lgt., 8.viii.2001, 1 ♂ 1 ♀, P. Kment lgt., 24.v.2002, 1 ♀, 23.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 3.v.2001, 2 ♂♂ 2 ♀♀, 24.v.2002, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt., 7.ix.2002, 1 ♀, 23.vi.2004, 2 ♀♀, I. Malenovský lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 7.iv.–12.v.2009, Mt, 1 ♂, 22.vi.–15.vii.2009, Mt, 1 ♂, 16.ix.–22.x.2009, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Vápenky, Porážky NNR (247), 9.ix.1998, 1 ♀, I. Malenovský & M. Omesová lgt. (PKPC). Vápenky, Velička brook valley below Hubertova bouda hut (253), 21.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Javorník, Machová NR (259), 14.v.1998, 1 ♀, 9.vii.1998, 1 ♀, P. Kment lgt., 8.v.2000, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC); 22.viii.–10.ix.2007, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 2.vii.2001, 2 ♀♀, I. Malenovský lgt., 9.viii.2001, 1 ♂, P. Kment lgt., 21.ix.2001, 3 ♀♀, 23.v.2002, 1 ♂ 3 ♀♀, 20.vii.2002, 1 ♀, I. Malenovský lgt. (PKPC). Strání, Záhumenice NM (266), 24.v.2001, 2 ♀♀, I. Malenovský lgt., 9.viii.2001, 1 ♂, 23.v.2002, 7 ♂♂ 4 ♀♀, P. Kment lgt. (PKPC). Strání, Javorina NNR, meadow (270), 21.viii.2002, 1 ♂, P. Kment lgt. (PKPC); 4.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 3.–23.vi.2009, Mt, 1 ♂, 15.vii.–6.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Holopalaearctic (except easternmost Asia). **Biology and habitat:**

On Poaceae (especially *Festuca*, *Poa*, *Agrostis*, *Dactylis*, *Lolium*, *Bromus*, including cultivated cereals). Euryecious, missing only in very humid habitats. Very common (STEHLÍK 1985, WACHMANN *et al.* 2008). **Red List status:** –.

***Arma custos* (Fabricius, 1794)**

Published records. STEHLÍK (1987): Malá Vrbka, Panský les forest (7170); Radějov, “Rozsocháč”, valley of the Mandát stream (214).

Material examined. Valašské Klobouky, Bílé potoky NR (46, 47, 48), 9.ix.1999, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Radějov, Žerotín NM (188), 19.viii.2002, 1 spec., P. Kment observ. Malá Vrbka, Výzkum hill, restored

grassland (208), 27.vii.2000, 1 ♂, I. Malenovský lgt. (PKPC). Hrubá Vrbka, football ground (211), 19.vi.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Strání, Záhumenice NM (266), 7.iv.–5.v.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** Eurosiberian, extending to Anatolia and Iran. **Biology and habitat:** Zoophagous, preying mainly on larvae and adults of *Agelastica alni* (Linnaeus, 1758) and other Chrysomelidae, but able to consume also larvae of *Elasmucha grisea* and other insects as well. Arboricolous, most common on *Alnus glutinosa*, less frequently on other deciduous trees and shrubs and even conifers. In dry to humid habitats, preferring sunlit forest margins and solitary trees. Widespread, not rare (STEHLÍK 1987, WACHMANN *et al.* 2008). **Red List status:** –.

Carpocoris (Carpocoris) fuscispinus (Boheman, 1851)

Published records. STEHLÍK (1986): Bánov, Skalky hill (125); Komňa, 500 m NNW of Nový Dvůr (129). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Valašské Klobouky, Dobšená NM (31), 2.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Poteč, Ploščiny NR (42), 17.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 3.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt., 25.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 24.v.2009, 16.viii.2009, 3 ♂♂ 1 ♀, P. Baňář lgt. et det. (MMBC). Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Komňa, Lom Rasová NM (128), 5.vii.2001, 3 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Lopeník, U Zvonice NM (155), 3.ix.2005, 1 ♂, P. Kment lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 18.viii.2004, 1 ♀, P. Kment lgt. (PKPC). Žitková, Hutě NR (164), 11.–31.vii.2007, Mt, 1 ♀, 31.vii.–21.viii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 1 ♂, P. Kment lgt. (PKPC). Vápenice, V Krátkých (170), 6.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Kněždubský háj forest (197), 8.vii.2000, 1 ♀, P. Kment lgt. (PKPC); 20.ix.2001, 2 ♂♂, M. Omesová lgt. (MUBC). Kněždub, Čertoryje NNR (202), 28.vii.2001, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 5.v.2000, 1 ♂ 1 ♀, I. Malenovský lgt., 25.v.2000, 2 ♀♀, P. Kment & I. Malenovský lgt., 27.vii.2000, 1 ♂, I. Malenovský lgt., 16.viii.2000, 1 ♂, P. Kment lgt., 28.vii.2001, 1 ♂, I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 18.viii.2000, 1 ♂, P. Kment lgt., 9.–10.ix.2000, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 18.viii.2000, 1 ♂, P. Kment lgt. (PKPC). Javorník, Nad Vápenkou NM (236), 7.ix.2002, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 17.vii.2002, 1 ♂, I. Malenovský lgt. (PKPC). Vápenky, Porážky NNR (247), 28.viii.2001, 1 ♀, M. Just lgt. (MJBC). Javorník, Machová NR (259), 14.v.1998, 1 ♂, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** Holopalaeartic, extending to India. **Biology and habitat:** A polyphagous phytophage. Euryecious, the least thermophilous one among the central European *Carpocoris* species. Very common (STEHLÍK 1986, WACHMANN *et al.* 2008). **Red List status:** –.

Carpocoris (Carpocoris) purpureipennis (De Geer, 1773)

Published records. STEHLÍK (1986): Štítná nad Vláří (6973); Brumov (6974); Horní Němčí (7071); Bánov (7072); Strání (70–7172); Starý Hrozenkov (7073); Javorník (7171); Nová Lhota (7171); Velká nad Veličkou (7171). KMENT (2001), KMENT & MALENOVSKÝ (2008): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 25.viii.–23.ix.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J.

True bugs (Hemiptera: Heteroptera)

Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 19.v.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt., 30.vi.1999, 1 ♂ 1 ♀, M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 22.v.1999, 1 ♀, P. Kment & I. Malenovský lgt., 10.ix.1999, 1 ♂, I. Malenovský lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 22.v.1999, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Na Nivách (34), 9.ix.1999, 2 ♂♂ 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Poteč, Ploščíny NR (42), 13.ix.1999, 3 ♂♂ 2 ♀♀, I. Malenovský & T. Vymyslický lgt., 24.viii.2002, 1 ♂, 17.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Brumov, Uhličky (44), 28.vii.2005, 1 ♀, 4.ix.2005, 1 ♂, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 16.vi.2006, 1 ♂, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 30.vi.1999, 1 ♂, M. Horsák & P. Kment lgt., 14.viii.2006, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 20.v.1999, 1 ♂, 3.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt., 25.viii.2002, 1 ♀, P. Kment lgt., 1.ix.2004, 1 ♂ 1 ♀, I. Malenovský lgt., 16.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54) and along road to Nedašov (52), 10.ix.1999, 2 ♀♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Kaňoury NM (55), 3.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt., 17.vi.2006, 1 ♂, I. Malenovský lgt., 12.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt., 16.viii.2006, 2 ♂♂, P. Kment lgt. (PKPC). Pitín (72), 20.vii.1957, 1 ♂ 2 ♀♀, Ondřej lgt. (MMBC). Brumov, Kloboucká street (76), 2.ix.2004, 1 ♀, I. Malenovský lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♂, 18.viii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 1 ♂, P. Kment & M. Omesová lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 1.ix.2004, 2 ♂♂ 1 ♀, 28.v.2005, 2 ♀♀, 6.ix.2005, 1 ♂, I. Malenovský lgt. (PKPC). Suchov, Kazivec brook valley (116), 9.ix.1998, 1 ♀, I. Malenovský & M. Omesová lgt. (PKPC). Horní Němčí, Drahy NR (117), 10.ix.1998, 2 ♂♂, I. Malenovský & M. Omesová lgt., 30.vi.2001, 1 ♀, P. Kment & I. Malenovský lgt., 13.viii.2001, 1 ♂ 1 ♀, P. Kment lgt., 21.vii.2002, 1 ♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Březová, Cestiska NM (136), 2.x.2007, 1 ♂ 1 ♀, O. Konvička lgt. (NMPC). Lopeník, U Zvonice NM (155), 27.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 2 ♂♂ 4 ♀♀, 9.–29.v.2007, Mt, 2 ♀♀, 19.vi.–11.vii.2007, Mt, 1 ♀, 11.–31.vii.2007, Mt, 4 ♀♀, 31.vii.–21.viii.2007, Mt, 2 ♀♀, 21.viii.–12.ix.2007, Mt, 2 ♀♀, 12.ix.–2.x.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 2 ♂♂, 8.viii.2007, 1 ♀, 22.ix.2007, 1 ♀, P. Kment lgt. (PKPC). Vápenice, V Krátkých (170), 6.vii.2001, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Výškovec, Pod Hribovňou NM (176), 28.vi.2004, 1 ♂, 3.ix.2005, 2 ♂♂ 3 ♀♀, I. Malenovský lgt. (PKPC). Výškovecké Bošačky, cattle pasture (179), 21.v.2005, 1 ♀, I. Malenovský lgt. (PKPC). Výškovecké Bošačky, meadow and orchard (180), 19.viii.2004, 1 ♀, 25.ix.2004, 1 ♂, P. Kment lgt., 21.v.2005, 1 ♀, I. Malenovský lgt. (PKPC). Radějov, Žerotín NM (188), 5.–26.viii.2008, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Kněždubský háj forest (197), 8.vii.2000, 1 ♀, P. Kment lgt., 28.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Kněždub, Čertoryje NNR (202), 22.vi.2001, 1 ♂, 28.vii.2001, 1 ♀, P. Kment lgt. (PKPC); 13.v.2007, 1 ♀, P. Bogusch lgt. (PBPC). Malá Vrbka, Výzkum hill, restored grassland (208), 5.v.2000, 3 ♂♂ 4 ♀♀, I. Malenovský lgt., 25.v.2000, 4 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt., 18.vi.2000, 2 ♂♂, I. Malenovský lgt., 1.x.2000, 1 ♂, P. Kment & I. Malenovský lgt., 2.v.2001, 1 ♂, 22.vi.2001, 1 ♂ 1 ♀, P. Kment lgt., 28.vii.2001, 2 ♀♀, I. Malenovský lgt., 17.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 8.vii.2000, 1 ♂, P. Kment lgt., 28.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.v.1998, 3 ♂♂ 2 ♀♀, 13.vii.1998, 1 ♂ 2 ♀♀, 18.viii.2000, 3 ♂♂ 1 ♀, P. Kment lgt., 9.–10.ix.2000, 2 ♂♂ 1 ♀ (1 ♂ freshly hatched), P. Kment & I. Malenovský lgt. (PKPC); 30.vi.–1.vii.2008, at night, 1 ♀, Z. Malinka lgt. (ZMOC); 8.iv.–12.v.2009, Mt, 1 ♂, 6.–24.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt., 7.iv.–5.v.2010, Mt, 1 ♂, P. Chvojka & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 26.v.2005, 1 ♂, I. Malenovský lgt. (PKPC). Suchovské Mlýny, meadow (227), 1.x.2004, 1 ♂, 27.vii.2005, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 6.v.2000, 3 ♂♂ 2 ♀♀, 19.vi.2000, 1 ♂, I. Malenovský lgt., 18.viii.2000, 2 ♂♂ 2 ♀♀, P. Kment lgt., 10.ix.2000, 2 ♂♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 6.iv.–12.v.2009, Mt, 1 ♂, 5.–24.viii.2009, Mt, 1 ♀, 14.ix.–22.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 12.v.–2.vi.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 17.vii.2002, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 3.v.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nová Lhota, Hryzácké Mlýny (246), 24.viii.–16.ix.2009, Mt, 1 ♀, 16.ix.–22.x.2009, Mt, 1 ♀, P. Chvojka, J.

Ježek & J. Macek lgt. (NMPC). Vápenky, Porážky NNR (247), 9.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt. (PKPC); 28.viii.2001, M. Just lgt. (MJBC). Javorník, Machová NR (259), 14.v.1998, 3 ♂♂ 1 ♀, 9.vii.1998, 1 ♂, P. Kment lgt., 8.v.2000, 1 ♂ 4 ♀♀, I. Malenovský lgt. (PKPC); 28.v.–18.vi.2007, Mt, 1 ♀, 9.vii.–2.viii.2007, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt., 7.iv.–5.v.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 9.vii.–2.viii.2007, Mt, 1 ♂ 1 ♀, 2.–22.viii.2007, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice, cattle pasture (265), 9.viii.2001, 1 ♂, P. Kment lgt., 21.ix.2001, 1 ♀, 23.v.2002, 1 ♂, I. Malenovský lgt. (PKPC). Strání, Záhumenice NM (266), 12.viii.–9.ix.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Nová hora NR (268), 25.v.1999, 1 ♂, H. Hiršová lgt. (PKPC). Strání, Javorina NNR, forest (269), valley of Velička spring, 31.viii.2005, 2 ♀♀, M. Horsák lgt. (MHBC). Strání, Javorina NNR, meadow (270), 4.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 6.–24.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Holopalaeartic, extending to India. **Biology and habitat:** A polyphagous phytophage. Euryecious. Very common (STEHLÍK 1986, WACHMANN *et al.* 2008). **Red List status:** –.

Chlorochroa (Rhytidolomia) juniperina juniperina (Linnaeus, 1758) (CR)

= *Pitedia juniperina juniperina* (Linnaeus, 1758)

Published records. BALTHASAR (1945): Luhačovice (68–6972). HRADIL *et al.* (2008), KMENT & MALENOVSKÝ (2008): Nedašov, Jalovcová stráň NR (54).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, recently collected only in a single locality in the northern part of the area. **General distribution:** Eurosiberian, extending to Maghreb, Anatolia and Iran. **Biology and habitat:** On *Juniperus communis* (STEHLÍK 1986, HRADIL *et al.* 2008, WACHMANN *et al.* 2008). Not found on introduced Cupressaceae by STEHLÍK (1998a), a record from *Thuja occidentalis* from Karlovice – Soláň (6675) (HRADIL *et al.* 2008) seems exceptional. **Red List status:** Critically endangered.

Comments. Very rare in Moravia (STEHLÍK 1986), recorded from nine localities only; its recent occurrence was confirmed after 40 years by HRADIL *et al.* (2008) in the Moravskoslezské Beskydy Mts. and the northern parts of the Bílé Karpaty Mts.

Chlorochroa (Rhytidolomia) pinicola (Mulsant et Rey, 1852)

= *Pitedia pinicola* (Mulsant et Rey, 1852)

Published record. SPITZNER (1892, as *Pentatoma juniperina*): Luhatschowitz [= Luhačovice] (68–6972).

Material examined. Velká nad Veličkou, Zahrady pod Hájem NNR (225), on *Pinus sylvestris*, 18.viii.2000, 1 ♂, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, recently collected only in one locality in the southern part of the area. **General distribution:** Eurosiberian, extending to Anatolia and Iran. **Biology and habitat:** On *Pinus sylvestris*, rarely on other conifers. Widespread; rare in Moravia, most often collected in xerothermic localities (aeolian sands, dry grassland on rock) (STEHLÍK 1986, 1998a; WACHMANN *et al.* 2008). **Red List status:** –.

Dolycoris baccarum (Linnaeus, 1758)

Published records. STEHLÍK (1985): Lipová (6873); Nedašova Lhota (6874); Štítná nad Vláří (6973); Boršice [u Blatnice] (7071); Horní Němčí (7071); Strání (70–7172); Radějov (7170); Javorník (7171); Nová Lhota (7171). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Luhačovice, Ještí, E of Gáborka spring (6), 1.x.2007, 1 ♀, J. Ježek lgt. (NMPC). Petrůvka, U Petrůvky NM (14), 6.viii.1999, 1 ♀, P. Kment lgt. (PKPC); 13.v.–3.vi.2008, Mt, 1 ♀, 16.vii.–4.viii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 19.v.1999, 1 ♀, P. Kment & I. Malenovský lgt., 30.vi.1999, 1 ♀, M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 22.v.1999, 1 ♂, 2.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt., 1.x.2007, 1 ♂, O. Konvička lgt. (PKPC). Valašské Klobouky, Javorůvky NR (32), 22.v.1999, 3 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Královec hill (33), 17.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Valašské Klobouky, Na Nivách (34), 9.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Valašské Klobouky, NW slope of Královec hill (35), 10.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Poteč, Ploštiny NR (42), 13.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt., 17.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Brumov, Uhlíčky (44), 1.ix.2004, 4 ♂♂, I. Malenovský lgt., 4.ix.2005, 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 14.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, meadow (48), 19.v.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 20.v.1999, 1 ♀, 3.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt., 1.ix.2004, 3 ♂♂ 1 ♀, 5.x.2004, 1 ♂ 2 ♀♀, 28.v.2005, 1 ♀, 28.vii.2005, 1 ♀, I. Malenovský lgt., 16.viii.2006, 2 ♂♂, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55), 20.v.1999, 1 ♀, 3.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt., 17.vi.2006, 1 ♂, I. Malenovský lgt., 12.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt., 16.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Nedašov, meadow E of Jalovcová stráž NR (59), 30.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Štítná nad Vláří, south-exposed slopes N of the village (74), 22.v.2006, 1 ♂, O. Konvička lgt. (NMPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♀, 18.viii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Bylnice, railway station environs (83), 1.vii.1999, 1 ♂, P. Kment & M. Omesová lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 28.v.2005, 1 ♂, 5.x.2004, 1 ♂, I. Malenovský lgt. (PKPC). Hluk, Babí hora NM (102), 24.viii.2002, 1 ♂, I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 24.v.2009, 11.vii.2009, 4 ♂♂ 2 ♀♀, P. Baňaf lgt. et det. (MMBC). Horní Němčí, Drahy NR (117), 15.v.1998, 1 spec., P. Kment lgt., 10.ix.1998, 2 ♂♂, I. Malenovský & M. Omesová lgt., 30.vi.2001, 2 ♀♀, P. Kment & I. Malenovský lgt., 13.viii.2001, 1 ♂, P. Kment lgt., 21.vii.2002, 2 ♂♂ 5 ♀♀, I. Malenovský lgt., 24.vii.–22.viii.2003, pt, 1 ♂, K. Resl lgt. (PKPC). Horní Němčí, Vinohrádky (121), 20.vii.2002, 1 ♂, I. Malenovský lgt. (PKPC). Slavkov, forest below Dolnoněmčanské louky NR (124), forest clearing, 15.v.1998, 1 ♀, P. Kment lgt. (PKPC). Komňa, Lom Rasová NM (128), 5.vii.2001, 2 ♂♂, P. Kment & I. Malenovský lgt. (PKPC). Korytná, Lubná pond (134), 5.vii.2001, 1 ♀, M. Horsák & P. Kment lgt. (PKPC). Březová, Cestiska NM (136), 2.x.2007, 1 ♂ 1 ♀, O. Konvička lgt. (NMPC). Strání, Klanečnice brook valley above Žabka reservoir (142), 10.vii.1998, P. Kment observ. Strání, Klanečnice brook valley between village and Žabka reservoir (143), 10.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt. (PKPC). Lopeník (152), 8.vi.1999, 1 ♂, K. Hradil lgt. et det. (KHMC). Lopeník, U Zvonice NM (155), 27.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 18.viii.2004, 2 ♀♀, P. Kment lgt., 25.ix.2004, 1 ♀, 21.v.2005, 1 ♀, I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 2 ♀♀, 9.–29.v.2007, Mt, 2 ♂♂ 3 ♀♀, 29.v.–19.vi.2007, Mt, 3 ♀♀, 11.–31.vii.2007, Mt, 2 ♂♂ 1 ♀, 31.vii.–21.viii.2007, Mt, 1 ♀, 12.ix.–2.x.2007, Mt, 2 ♀♀, 2.–31.x.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 8.viii.2007, 1 L, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 1 ♂, 8.viii.2007, 1 ♂, 22.ix.2007, 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, village (172), 6.vii.2001, 1 ♂, P. Kment lgt. (PKPC). Vyškovec, Pod Hřibovňou NM (176), 28.vi.2004, 1 ♂, I. Malenovský lgt., 25.ix.2004, 1 ♂, 24.vii.2005, 1 ♂, P. Kment lgt. (PKPC). Vyškovecké Bošačky, cattle pasture (179), 24.vii.2005, 1 ♂, P. Kment lgt., 3.ix.2005, 1 ♂, I. Malenovský lgt. (PKPC). Vyškovecké Bošačky, meadow and orchard (180), 21.v.2005, 3 ♀♀, I. Malenovský lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 11.vii.1998, 1 ♂, P. Kment lgt. (PKBC); 14.v.–4.vi.2008, Mt, 1 ♀, 14.vii.–5.viii.2008, Mt, 2 ♀♀, 5.–26.viii.2008, Mt, 1 ♂ 1 ♀, 24.ix.–27.x.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždubský háj forest (197), 8.vii.2000, 1 ♀, 17.viii.2000, 1 ♂, P. Kment lgt. (PKPC); 20.ix.2001, 1 ♂, M. Omesová lgt. (MUBC). Tvarožná Lhota, Lučina reservoir (199), 13.v.1998, 1 ♂, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 8.iv.–5.v.2000, pt, 1 ♂, P. Bezděčka lgt., 5.v.2000, 3 ♂♂ 5 ♀♀, I. Malenovský lgt., 25.v.2000, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt., 18.vi.2000,

2 ♂♂ 1 ♀, 27.vii.2000, 1 ♀ (freshly hatched), I. Malenovský lgt., 16.viii.2000, 1 ♀, P. Kment lgt., 1.x.2000, 2 ♀♀, 22.x.2000, 1 ♀, P. Kment & I. Malenovský lgt., 2.v.2001, 1 ♀, 22.vi.2001, 1 ♀, P. Kment lgt., 28.vii.2001, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Kněždub, Malá Vrbka, Výzkum hill, 200 m NW of the top (209), 13.ix.2004, 1 ♂, M. Horsák lgt. (MHBC). Hrubá Vrbka, football ground (211), 8.vii.2000, 1 spec., P. Kment observ. (PKPC). Hrubá Vrbka, village (212), 9.–12.vii.2009, 1 ♀, Z. Malinka lgt. (ZMOC). Radějov, Kútky NR (217), 11.vii.1998, P. Kment observ. Velká nad Veličkou (220), 29.vi.1986, 1 ♀, J. Vilímová lgt. (JVPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.v.1998, 1 ♂, P. Kment lgt., 13.vii.1998, 1 spec., P. Kment observ., 18.iv.2000, 1 ♀, P. Kment & I. Malenovský lgt., 19.vi.2000, 1 ♂, 18.viii.2000, 1 ♂, P. Kment lgt., 9.–10.ix.2000, 3 ♂♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 30.vi.–1.vii.2008, at night, 1 ♂ 2 ♀♀, Z. Malinka lgt. (ZMOC); 8.iv.–12.v.2009, Mt, 1 ♂ 4 ♀♀, 6.–24.viii.2009, Mt, 1 ♂, 24.viii.–14.ix.2009, Mt, 1 ♂ 1 ♀, 14.ix.–20.x.2009, Mt, 1 ♂ 2 ♀♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, meadow (227), 23.vi.2004, 1 ♂ 2 ♀♀, 27.vii.2005, 1 ♀, I. Malenovský lgt. (PKPC). Trnovský Mlýn, meadow (229), 27.vii.2005, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 6.v.2000, 2 ♂♂, 19.vi.2000, 1 ♂, I. Malenovský lgt., 18.viii.2000, 1 ♂ 4 ♀♀, P. Kment lgt., 10.ix.2000, 3 ♂♂ 2 ♀♀, 3.v.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 6.iv.–12.v.2009, Mt, 3 ♂♂ 5 ♀♀, 12.v.–2.vi.2009, Mt, 1 ♂ 1 ♀, 15.vii.–5.viii.2009, Mt, 3 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, loampit (235), 10.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt., 24.v.2002, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 6.iv.–12.v.2009, Mt, 1 ♀, 24.viii.–14.ix.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 17.vii.2002, 3 ♀♀, 7.ix.2002, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 3.v.2001, 2 ♂♂, 24.v.2002, 1 ♂, P. Kment & I. Malenovský lgt., 7.ix.2002, 1 ♀, 23.vi.2004, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 7.iv.–12.v.2009, Mt, 2 ♀♀, 4.–24.viii.2009, Mt, 1 ♂, 16.ix.–22.x.2009, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Vápenky, Velička brook valley below Hubertova bouda hut (253), 21.viii.2002, 1 ♀ (freshly hatched), P. Kment lgt. (PKPC). Vápenky, Velička brook valley above Hubertova bouda hut (254), 12.vii.1998, 1 spec., P. Kment observ. Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 7.iv.–5.v.2010, Mt, 1 ♂ 1 ♀, 13.vii.–10.viii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 14.v.1998, 1 ♂, P. Kment lgt., 9.vii.1998, 1 spec., P. Kment observ., 8.v.2000, 1 ♀, I. Malenovský lgt. (PKPC); 12.iv.–8.v.2007, Mt, 1 ♂ 1 ♀, 8.–28.v.2007, Mt, 1 ♀, 18.vi.–9.vii.2007, Mt, 1 ♂, 9.vii.–2.viii.2007, Mt, 4 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt., 24.v.–15.vi.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 12.iv.–8.v.2007, Mt, 5 ♀♀, 8.–28.v.2007, Mt, 1 ♀, 28.v.–18.vi.2007, Mt, 1 ♀, 9.vii.–2.viii.2007, Mt, 1 ♂ 4 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, above Záhumenice NM (263), 10.vii.1998, 1 ♀, P. Kment lgt. (PKPC). Strání, Záhumenice, cattle pasture (265), 21.ix.2001, 1 ♀, 23.v.2002, 1 ♂ 1 ♀, 20.vii.2002, 1 ♀, I. Malenovský lgt. (PKPC). Strání, Záhumenice NM (266), 24.v.2001, 1 ♂ 1 ♀, I. Malenovský lgt., 2.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt., 23.v.2002, 1 ♀, P. Kment lgt. (PKPC); 12.viii.–9.ix.2010, Mt, 1 ♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Nová hora NR (268), 16.v.1998, 1 ♀, P. Kment lgt. (PKPC). Strání, Javorina NNR, meadow (270), 4.vii.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC); 7.iv.–13.v.2009, Mt, 1 ♀, 15.vii.–6.viii.2009, Mt, 3 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Holopalaeartic, extending to India. **Biology and habitat:** A polyphagous phytophage. Euryecious. Very common (STEHLÍK 1985, WACHMANN *et al.* 2008). **Red List status:** –.

Eurydema (Eurydema) oleracea (Linnaeus, 1758)

Published records. STEHLÍK (1986): Lipová (6873); Boršice [u Blatnice] (7071); Bánov (7072). KMENT (2001): Kněždub, Čertoryje NNR (202). KMENT & VILÍMOVÁ (2010b): Malá Vrbka, [Výzkum hill], restored meadow (208).

Material examined. Valašské Klobouky, Královec hill (33), 22.v.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Poteč, Ploščiny NR (42), 17.viii.2006, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, meadow (48), 19.v.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Jalovcová

True bugs (Hemiptera: Heteroptera)

stráň NR (54), 16.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráň NR (54) and along road to Nedašov (52), 10.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Kaňoury NM (55), 16.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Petrůvka, Kladenka brook valley (64), 13.v.–3.vi.2008, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Bylnice, Lazy NR and environs (82), 12.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 5.x.2004, 2 ♂♂ 1 ♀, Malenovský lgt. (PKPC). Lopeník, Hrubý Mechnáč (157), 29.iv.2000, 1 ♂, M. Horsák lgt. (PKPC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Výskovecké Bošačky, meadow and orchard (180), 25.ix.2004, 1 ♀, P. Kment lgt. (PKPC). Petrov, Chorvátky (185), 19.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 14.vii.–5.viii.2008, Mt, 1 ♂, 24.ix.–27.x.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Tvarožná Lhota, Lučina reservoir (199), 13.v.1998, on *Alliaria petiolata*, 1 ♂ 1 ♀ in copula, P. Kment lgt. (PKPC); 14.vii.1998, 1 spec., P. Kment observ. Malá Vrbka, Výzkum hill, restored grassland (208), 5.v.2000, 16 ♂♂ 13 ♀♀, I. Malenovský lgt., 25.v.2000, 6 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt., 18.vi.2000, 2 ♀♀, I. Malenovský lgt., 8.vii.2000, 1 ♂, 2.v.2001, 2 ♂♂ 3 ♀♀, P. Kment lgt., 28.vii.2001, 4 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, 300–400 m E of the top (210), 17.iv.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Hrubá Vrbka, football ground (211), 16.viii.2000, 1 ♂, P. Kment lgt. (PKPC); 20.ix.2001, 1 ♀, M. Omesová lgt. (MUBC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 18.viii.2000, 2 ♂♂, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 6.iv.–12.v.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 15.vii.–5.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 7.iv.–12.v.2009, Mt, 3 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 10.viii.–7.ix.2010, Mt, 1 ♂, 7.ix.–21.x.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 14.v.1998, 1 spec., P. Kment observ. Strání, Nová hora NR (268), 25.v.1999, 1 ♂ 1 ♀, H. Hiršová lgt. (MUBC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Holopalaeartic (except easternmost Asia). **Biology and habitat:**

On Brassicaceae. Euryecious, an occasional pest of vegetables. Very common (STEHLÍK 1986, WACHMANN *et al.* 2008). **Red List status:** –.

Eurydema (Rubrodorsalium) dominulus (Scopoli, 1763)

Published record. STEHLÍK (1986): Sidonie (6974).

Material examined. Valašské Klobouky, Brumovka brook valley (29), 19.v.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, between Na Nivách and valley of the left-side tributary of Brumovka brook (39), 9.ix.1999, 2 ♂♂, I. Malenovský & T. Vymyslický lgt. (MHBC, PKPC). Poteč, Ploščiny NR (42), 1.vi.2002, 1 ♂, I. Malenovský lgt., 17.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 23.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 30.vi.1999, 1 ♀ (torso), M. Horsák & P. Kment lgt. (PKPC). Strání, Klanečnice brook valley above Žabka reservoir (142), 10.vii.1998, 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♀, P. Kment lgt. (PKPC). Javorník, towards Suchovské Mlýny, Velička river valley (233), 3.v.2001, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, but quite rare, most records come from the northern part. **General distribution:**

Holopalaeartic (except the south of the Mediterranean region), extending to India.

Biology and habitat: On Brassicaceae (especially *Cardamine*, but also *Arabis hirsuta*, *Sinapsis arvensis*, *Capsella*, *Thlaspi*, *Rorippa*, *Nasturtium*, etc.). In moist places such as valleys with brooklets in woody landscapes, clearings, wet meadows, environs of ponds and peat bogs. It prefers hilly and mountain regions and is rare in warm lowlands (STEHLÍK 1986, WACHMANN *et al.* 2008). **Red List status:** –.

***Eysarcoris aeneus* (Scopoli, 1763)**

Published record. STEHLÍK (1985): Luhačovice, Luhačovická dolina valley (62).

Material examined. Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 23.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 14.viii.2006, 1 ♀ 1 L, P. Kment lgt. (PKPC). Valašské Klobouky, Brumovka brook valley (29), 19.v.1999, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (MHBC, PKPC); 9.ix.1999, 1 ♂, I. Malenovský lgt. (PKPC). Brumov, Uhličky (44), 30.vi.2004, 1 ♀, P. Kment lgt., 1.ix.2004, 1 ♂ 4 ♀♀, I. Malenovský lgt., 4.ix.2005, 1 ♂ 2 ♀♀, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 16.vi.2006, 1 ♀, I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54) and along road to Nedašov (52), 10.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Kaňoury NM (55), 16.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Štítná nad Vláří, south-exposed slopes N of the village (74), 22.v.2006, 1 ♀, O. Konvička lgt. (NMPC). Brumov, Kloboucká street (76), 2.ix.2004, 1 ♀, I. Malenovský lgt. (PKPC). Bylnice, Na Stráži (77), 18.viii.2006, 1 L, P. Kment & I. Malenovský lgt. (PKPC). Bylnice, Lazy NR and environs (82), 12.ix.1999, 3 ♀♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 5.x.2004, 1 ♂ 1 ♀, 6.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Hluk, Babí hora NM (102), 24.viii.2002, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 31.vii.–21.viii.2007, Mt, 1 ♀, 21.viii.–12.ix.2007, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Výškovce, Pod Hřibovňou NM (176), 24.vii.2005, 1 ♂, P. Kment lgt. (PKPC). Výškovce Bošačky, cattle pasture (179), 3.ix.2005, 1 ♀, I. Malenovský lgt. (PKPC). Výškovce Bošačky, meadow and orchard (180), 19.viii.2004, 1 ♂, I. Malenovský lgt., 24.vii.2005, 1 ♂, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 17.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Radějov, Měsíční údolí valley (214), along road to Radějov, 16.viii.2009, 1 ♂, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area, but more common in the north. **General distribution:** Holopalaearctic, extending to India. **Biology and habitat:** On Lamiaceae (*Stachys*, *Clinopodium vulgare*, *Galeopsis*, etc.), but both adults and larvae could be found on plants of other families. Euryecious, in dry to very humid habitats, especially in lowland forests and on shores of ponds, avoiding extremely warm localities. Common (STEHLÍK 1985, WACHMANN *et al.* 2008). **Red List status:** –.

***Eysarcoris venustissimus* (Schrank, 1776)**

= *Eysarcoris fabricii* Kirkaldy, 1904

Published records. STEHLÍK (1985): Horní Němčí, Lesná hill (123); Radějov, Holý vrch hill (79).

Material examined. Valašské Klobouky, Královec hill (33), 2.vii.1999, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 15.viii.2006, 1 ♀, 17.viii.2006, 1 ♂ 1 ♀ (1 ♀ on *Stachys alpina*), P. Kment lgt. (PKPC). Poteč, Ploščiny NR (42), 17.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 23.viii.2002, on *Salvia glutinosa*, several adults and larvae, P. Kment observ. (1 ♂ 1 ♀ in PKPC). Valašské Klobouky, NW slope of Královec hill (35), 22.v.1999, 1 ♀, P. Kment & I. Malenovský lgt., 2.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt., 10.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Kaňoury NM (55), 16.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 1 ♀, P. Kment & M. Omesová lgt. (PKPC). Strání, Klanečnice brook valley above Žabka reservoir (142), on *Stachys sylvatica*, 10.vii.1998, 1 ♂ 2 ♀♀, P. Kment lgt. (MHBC, PKPC, PSBC). Radějov, Žerotín NM (188), *Quercetum pubescentis* and vineyards, 30.viii.2005, 1 ♀, M. Horsák lgt. (MHBC). Kněždub, Radějovka brook valley below Čertoryje (198), 8.vii.2000, 1 ♀, 22.vi.2001, 1 ♀, P. Kment lgt. (PKPC). Tvarožná Lhota, Lučina reservoir (199), 13.v.1998, 1 ♀, P. Kment lgt., 7.v.2000, 1 ♀, I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.v.1998, 1 ♂, 19.vi.2000, 1 ♂, 18.viii.2000, 1 ♀, P. Kment lgt. (PKPC). Javorník, Jazevěčí NNR (232), 2.–25.vi.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Vápenky, Velička brook valley below Hubertova bouda hut (253), 21.viii.2002, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Vápenky / Strání, Mt. Velká Javořina (255), forest, 25.v.1999, 2 ♀♀, H. Hiršová lgt. (MUBC). Javorník, Machová NR (259), 8.v.2000, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook E of Machová

hill (260), 8.–28.v.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 2.vii.2001, 2 ♂♂ 4 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 25.v.–15.vi.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Nová hora NR (268), 25.v.1999, 2 ♀♀, H. Hiršová lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area.

General distribution: Holomediterranean, extending to western and central Europe.

Biology and habitat: On *Stachys sylvatica*, more rarely on other Lamiaceae (*Stachys palustris*, *Galeopsis tetrahit*, *Lamium*, *Prunella vulgaris*, *Ballota nigra*, *Clinopodium vulgare*, *Marrubium*), exceptionally on other families. In lowlands and at medium altitudes, in relatively moist and mostly shaded places, such as forest clearings and margins, as well as along brooklets. Common (STEHLÍK 1985, WACHMANN *et al.* 2008).

Red List status: –.

Comments. *Salvia glutinosa* is confirmed here as a host plant of *E. venustissimus*.

***Graphosoma (Graphosoma) lineatum italicum* (O. F. Müller, 1766)**

Published records. STEHLÍK (1984): Radějov, Holý vrch hill (189). KMENT (2001): Kněždub, Čertoryje NNR (202). KMENT & VILÍMOVÁ (2010a): Petruchovy Mlýny, cattle pasture (242).

Material examined. Petrůvka, U Petrůvky NM (14), 13.v.–3.vi.2008, Mt, 1 ♂, 25.viii.–23.ix.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Brumov, Uhlíčky (44), 28.v.2005, 2 ♂♂ 2 ♀♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 14.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 3.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt., 25.viii.2002, 1 ♂, P. Kment lgt. (PKPC). Bylnice, Lazy NR and environs (82), 12.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Sidonie, env. (88), 27.vi.1998, 1 ♀, V. Vrabc & L. Vrabcová lgt. (VVKC). Hluk, Kobylí hlava NM (101), 24.viii.2002, 1 ♀, I. Malenovský lgt. (PKPC). Hluk, Babí hora NM (102), 24.viii.2002, 1 ♀, I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 24.v.2009, 16.viii.2009, 4 ♂♂ 2 ♀♀, P. Baňář lgt. et det. (MMBC). Horní Němčí, Drahy NR (117), 13.viii.2001, 1 ♀, P. Kment lgt. (PKPC). Březová, Cestiska NM (136), 2.x.2007, 1 ♂, O. Konvička lgt. (NMPC). Žitková, Hutě NR (164), 29.v.–19.vi.2007, Mt, 1 ♀, 19.vi.–11.vii.2007, Mt, 2 ♀♀, 21.viii.–12.ix.2007, Mt, 1 ♂, 12.ix.–2.x.2007, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♂, 22.ix.2007, 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 1 ♀, 22.ix.2007, 1 ♂ (freshly hatched), P. Kment lgt. (PKPC). Vyškovec, Vyškovec Mt. (178), 18.viii.2004, 1 ♀, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 14.v.–4.vi.2008, Mt, 1 ♀, 14.vii.–5.viii.2008, Mt, 5 ♂♂ 4 ♀♀, 5.–26.viii.2008, Mt, 1 ♂ 4 ♀♀, 26.viii.–24.ix.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Kněždubský háj forest (197), 17.viii.2000, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 8.vii.2000, 1 ♀ and more spec. observed in copula, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 14.ix.2004, 1 ♀, M. Horsák lgt. (MHBC). Malá Vrbka, between village and Výzkum hill (205), 8.vii.2000, several spec. in copula, P. Kment observ. Hrubá Vrbka, football ground (211), 16.viii.2000, 1 ♀, P. Kment lgt. (PKPC); 20.ix.2001, 2 ♀♀, M. Omesová lgt. (MUBC). Hrubá Vrbka, village (212), 27.–29.vi.2008, 1 ♂ 1 ♀, 9.–12.vii.2009, 2 ♂♂ 2 ♀♀ (br), Z. Malinka lgt. (ZMOC). Velká nad Veličkou, below Zahrady pod Hájem NNR (221), 13.vii.1998, 1 spec., P. Kment observ. Velká nad Veličkou, Zahrady pod Hájem NNR (225), 15.vii.–6.viii.2009, Mt, 1 ♂, 6.–24.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Suchovské Mlýny, sheep pasture (226), 1.x.2004, 2 ♂♂, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 29.vi.2001, 1 ♂, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 23.vi.2004, 2 ♀♀, I. Malenovský lgt. (PKPC). Vápenky, village (251), 12.vii.1998, 1 ♂, P. Kment lgt. (PKPC). Javorník, Machová NR (259), 14.v.1998, 1 ♀, 9.vii.1998, 1 ♂, P. Kment lgt. (PKPC); 8.–28.v.2007, Mt, 2 ♀♀, 9.vii.–2.viii.2007, Mt, 2 ♀♀, 10.ix.–3.x.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: In warm localities, common throughout the area. **General distribution:** West Palaearctic (except North Africa).

Biology and habitat: On Apiaceae (*Pastinaca*, *Peucedanum*, *Angelica*, *Daucus*, *Aegopodium*, *Eryngium*, *Meum*, etc.), particularly on flowers and fruits. In dry to moist,

open to half-shaded habitats. Widespread and common in warm areas, currently spreading northwards and to higher altitudes (STEHLÍK 1984, WACHMANN *et al.* 2008).

Red List status: –.

Comments. The subspecies *G. lineatum italicum*, distributed in Europe, was recently re-validated by PÉRICART (2010), while the nominotypical subspecies is restricted to North Africa.

***Holcostethus sphacelatus* (Fabricius, 1794) (EN)**

Material examined. Starý Hrozenkov, Skalka quarry (169), 2.vii.2007, 1 ♂, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected in a single xerothermic locality in the central part of the area. **General distribution:** West and North Mediterranean, extending to central Europe. **Biology and habitat:** A polyphagous phytophage (e.g. on *Verbascum*). On herbs, rarely on woody plants. In xerothermic, open habitats, especially on limestone or serpentinite rocks. Very rare (STEHLÍK 1986, WACHMANN *et al.* 2008). **Red List status:** Endangered.

***Jalla dumosa* (Linnaeus, 1758)**

Material examined. Pitín (72), 20.vii.1957, 1 ♂, Ondřej lgt. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected at a single site in the northern part of the area. **General distribution:** Holopalaeartic. **Biology and habitat:** Zoophagous, mostly preying on larval, in a lesser extent on adult Lepidoptera, or Chrysomelidae. In xerothermic, open habitats, dwelling mostly on or under herbs (e.g. *Salvia*, *Thymus*, *Verbascum*), rarely on trees. Widespread, but rare (STEHLÍK 1987, WACHMANN *et al.* 2008). **Red List status:** –.

***Neottiglossa (Neottiglossa) leporina* (Herrich-Schaeffer, 1830)**

Material examined. Radějov, Žerotín NM (188), 4.–26.vi.2008, Mt, 1 ♀, 26.vi.–14.vii.2008, Mt, 1 ♀, 14.vii.–5.viii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only with a Malaise trap in a single xerothermic site at the southern border of the area. **General distribution:** Eurosiberian, extending to Anatolia and Transcaucasia, and Central Asiatic. **Biology and habitat:** On various Poaceae. In xerothermic localities with limestone, sedimentary or sandy substrates. In Moravia confined mostly to the Pannonicum and its outskirts, locally not rare (STEHLÍK 1985, WACHMANN *et al.* 2008). **Red List status:** –.

***Neottiglossa (Neottiglossa) pusilla* (Gmelin, 1790)**

Published records. STEHLÍK (1985): Bylnice (6974); Velká nad Veličkou (towards Javorník) (240).

Material examined. Valašské Klobouky, Brumovka brook valley (29), 19.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Brumovská street (30), 19.v.1999, 1 ♀, P. Kment & I.

True bugs (Hemiptera: Heteroptera)

Malenovský lgt. (PKPC). Valašské Klobouky, Královec hill (33), 15.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Poteč, Ploštiny NR (42), 17.viii.2006, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Nedašov, Hrušová dolina valley (53), 20.v.1999, 3 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt. (MHBC, PKPC). Nedašov, Jalovcová stráž NR (54), 20.v.1999, 1 ♀, 3.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt., 30.vi.2004, 1 ♀, 28.v.2005, 1 ♀, 28.vii.2005, 1 ♀, I. Malenovský lgt., 16.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Nedašov, Kaňoury NM (55), 16.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Brumov, Kloboucká street (76), 5.x.2004, 1 ♀, I. Malenovský lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 30.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Horní Němčí, reservoir in village (111), 15.v.1998, 1 ♂, P. Kment lgt. (PKPC). Lopeník, Lopenické sedlo saddle, cattle pasture (159), 21.v.2005, 1 ♂, I. Malenovský lgt. (PKPC). Žitková (163), 11.vi.1999, 1 ♀, K. Hradil lgt. et det. (KHMC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♀, P. Kment lgt. (PKPC). Výchovecké Bošačky, meadow and orchard (180), 27.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 16.viii.2000, 1 ♂, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR (232), 6.v.2000, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, loampit (235), 10.vii.2009, 2 ♀♀, Z. Malinka lgt. (ZMBC). Javorník, Petruchovy Mlýny, meadow (243), 29.vi.2001, 1 ♀, P. Kment lgt. (PKPC). Javorník, Machová NR (259), 14.v.1998, 1 ♀, P. Kment lgt., 25.v.1999, 1 ♀, H. Hiršová lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** Eurosiberian, extending to Anatolia and Transcaucasia, and Central Asiatic. **Biology and habitat:** On Poaceae, also found on *Carex*. Euryecious, with preference for humid habitats. Widespread, not rare (STEHLÍK 1985, WACHMANN *et al.* 2008). **Red List status:** –.

Palomena prasina (Linnaeus, 1761)

Published records. STEHLÍK (1986): Brumov (6974); Sidonie (6974); Blatnice [pod Svatým Antonínkem] (7070); Strání (70–7172); Radějov (7170). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 23.vi.–16.vii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Javorůvky NR (32), 2.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Poteč, Ploštiny NR (42), 13.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 23.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 16.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54) and along road to Nedašov (52), 10.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Petrůvka, Kladenka brook valley (64), 13.v.–3.vi.2008, Mt, 2 ♀♀, 4.–25.viii.2008, Mt, 1 ♀, 23.ix.–29.x.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Bylnice, Lazy NR and environs (82), 21.v.1999, 1 ♀, 12.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 1.ix.2004, 1 ♀ (freshly hatched), I. Malenovský lgt. (PKPC). Blatnička, Milejovské louky meadows (104), 24.v.2009, 11.vii.2009, 2 ♂♂, P. Baňar lgt. et det. (MMBC). Horní Němčí, village (109), on *Betula* sp., 13.viii.2001, 1 ♂, P. Kment lgt. (PKPC). Suchov, Kazivec brook valley (116), 9.ix.1998, 1 ♂ (freshly hatched), I. Malenovský & M. Omesová lgt. (PKPC). Horní Němčí, Drahy NR (117), 21.ix.2001, 1 ♀, P. Kment lgt. (PKPC). Březová, Cestiska NM (136), 2.x.2007, 1 ♀, O. Konvička lgt. (NMPC). Březová, Kalábová NM (137), 4.vii.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Lopeník, U Zvonice NM (155), 5.ix.2005, 1 ♂, P. Kment lgt. (PKPC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 4 ♂♂, 9.–29.v.2007, Mt, 1 ♂ 4 ♀♀, 29.v.–19.vi.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 1 ♀ (freshly hatched), P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 19.viii.2002, 1 ♂ 1 ♀, P. Kment observ., 14.v.–4.vi.2008, Mt, 3 ♂♂, 14.vii.–5.viii.2008, Mt, 1 ♀, 5.–26.viii.2008, Mt, 1 ♂ 2 ♀♀, 26.viii.–24.ix.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, village (194), 19.viii.2002, 1 ♂, P. Kment observ. Kněždub, Čertoryje NNR (202), 25.v.–15.vi.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, Výzkum hill, 200 m NW of the top (209), 13.ix.2004, 1 ♀, M. Horsák lgt. (MHBC). Hrubá Vrbka, football ground (211), 20.ix.2001, 1 ♂, M. Omesová lgt. (MUBC). Radějov, Měsíční údolí valley (214), 8.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt. (PKPC). Radějov, Kútky NR (217), 4.–26.vi.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Mandát brook valley below Kútky NR (218), 26.viii.–24.ix.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, old cemetery (223), 18.viii.2000, 1 ♂, P. Kment lgt. (PKPC).

Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.v.1998, 1 ♀, P. Kment lgt., 18.iv.2000, 1 ♂, P. Kment & I. Malenovský lgt., 19.vi.2000, 1 ♀, 18.viii.2000, 1 spec. (freshly hatched), P. Kment lgt., 9.–10.ix.2000, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 8.iv.–12.v.2009, Mt, 3 ♂♂, 12.v.–2.vi.2009, Mt, 1 ♂ 1 ♀, 2.–25.vi.2009, Mt, 2 ♀♀, 25.vi.–15.vii.2009, Mt, 1 ♂, 6.–24.viii.2009, Mt, 2 ♀♀, 24.viii.–14.ix.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & M. Macek lgt., 7.iv.–5.v.2010, Mt, 1 ♀, P. Chvojka & M. Macek lgt. (NMPC). Javorník, Jazevečí NNR (232), 18.viii.2000, 2 ♂♂ 1 ♀, P. Kment lgt., 10.ix.2000, 1 ♂ 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC); 6.iv.–12.v.2009, Mt, 4 ♂♂, 24.viii.–14.ix.2009, Mt, 1 ♂, 14.ix.–22.x.2009, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, village (239), linden alley towards cemetery, on *Tilia* sp., 8.viii.2001, 1 ♀, P. Kment lgt. (PKPC). Javorník, Jazevečí NNR, left-side tributary of Velička river (241), 6.iv.–12.v.2009, Mt, 2 ♀♀, 12.v.–2.vi.2009, Mt, 1 ♂ 1 ♀, 24.viii.–14.ix.2009, Mt, 1 ♂, 14.ix.–22.x.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Hryzlácké Mlýny (246), 7.iv.–12.v.2009, Mt, 9 ♂♂ 3 ♀♀, 24.viii.–16.ix.2009, Mt, 1 ♀, 16.ix.–22.x.2009, Mt, 5 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Vápenky, Porážky NNR (247), 9.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt. (PKPC). Vápenky, Velička brook valley below Hubertova bouda hut (253), 21.viii.2002, 1 ♂ (freshly hatched), P. Kment observ. Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 15.vi.–13.vii.2010, Mt, 2 ♀♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 25.v.1999, 2 ♀♀, H. Hiršová lgt. (MUBC); 8.v.2000, 1 ♀, I. Malenovský lgt. (PKPC); 8.–28.v.2007, Mt, 2 ♂♂ 7 ♀♀, 28.v.–18.vi.2007, Mt, 4 ♂♂ 1 ♀, 18.vi.–9.vii.2007, Mt, 1 ♂ 1 ♀, 2.–22.viii.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt., 5.–24.v.2010, Mt, 1 ♀, 24.v.–15.vi.2010, Mt, 1 ♂ 1 ♀, 7.ix.–21.x.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 12.iv.–8.v.2007, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 15.vi.–9.vii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, forest (269), 4.vii.2001, 1 ♂, M. Horskák & P. Kment lgt. (PKPC). Strání, Javorina NNR, meadow (270), 3.–23.vi.2009, Mt, 1 ♀, 23.vi.–15.vii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Holopalaeartic (except easternmost Asia). **Biology and habitat:**

A polyphagous phytophage. Mostly on trees, less frequently on herbaceous vegetation. Euryecious. Very common (STEHLÍK 1986, 1998a; WACHMANN *et al.* 2008). **Red List status:** –.

Palomena viridissima (Poda, 1761)

Published records. STEHLÍK (1986): Brumov, Holý vrch hill (79); Blatnice [pod Svatým Antonínkem] (7070). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Horní Němčí, Drahy NR (117), 10.ix.1998, 1 ♀, I. Malenovský & M. Omesová lgt. (PKPC). Malá Vrbka, between village and Výzkum hill (205), 16.viii.2000, 2 ♂♂, P. Kment lgt. (MHBC, PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 20.ix.2001, 1 ♂, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 16.viii.2000, 1 ♂, P. Kment lgt. (PKPC); 20.ix.2001, 1 ♀, M. Omesová lgt. (MUBC). Velká nad Veličkou, below Zahrady pod Hájem NNR (221), 9.ix.2000, 1 ♀ (freshly hatched), P. Kment & I. Malenovský lgt. (PKPC). Javorník, Jazevečí NNR (232), 6.v.2000, 1 ♀, I. Malenovský lgt., 10.ix.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 24.viii.–14.ix.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, but recently collected only in the southern part, rare. **General distribution:** Holopalaeartic (except North Africa), extending to India. **Biology and habitat:** A polyphagous phytophage. Usually on herbaceous vegetation, less frequently on deciduous trees. Euryecious, preferring medium altitudes. More rare than *P. prasina*, possibly retreating (STEHLÍK 1986, WACHMANN *et al.* 2008). **Red List status:** –.

Pentatoma (Pentatoma) rufipes (Linnaeus, 1758)

Published records. STEHLÍK (1986): Luhačovice, Luhačovická dolina valley (62); Hrádek (towards Hostětín) [= Rokytnice, Bukovina hill] (6973a4). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 16.vii.–4.viii.2008, Mt, 1 ♂, 23.ix.–29.x.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Poteč, Ploščiny NR (42), 4.vii.1999, 1 ♀ (freshly hatched), P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 13.–16.viii.2007, ypt, 1 ♂, J. Ježek lgt. (NMPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), forest margin, 30.vi.1999, 1 ♀, M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 12.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Petrůvka, Kladenka brook valley (64), 16.vii.–4.viii.2008, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Bylnice, Lazy NR and environs (82), 1.vii.1999, 1 ♀, P. Kment & M. Omesová lgt. (PKPC). Sidonie, Sidonie NR (87), 11.viii.–8.ix.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Svatý Štěpán, Chladný vrch NM (93), 11.viii.–8.ix.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Horní Němčí, village (109), on *Tilia* sp., 13.viii.2001, 1 ♀, P. Kment lgt. (PKPC). Horní Němčí, Drahy NR (117), 21.ix.2001, 1 ♀, P. Kment lgt. (PKPC). Horní Němčí, Uvezené NM (120), 10.vii.2009, 1 ♂, Z. Malinka lgt. (ZMOC). Korytná, left-side tributary of Hradecký járek brook (139), 6.viii.2000, 1 ♀, M. Horsák lgt. (PKPC). Žitková, Hutě NR (164), 19.vi.–11.vii.2007, Mt, 1 ♀, 11.–31.vii.2007, Mt, 1 ♂, 12.ix.–2.x.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Kněždubský háj forest (197), 20.ix.2001, 1 ♂, M. Omesová lgt. (MUBC). Kněždub, Čertoryje NNR, Radějovka brook (204), 9.ix.–22.x.2010, Mt, 1 ♂ 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, between village and Výzkum hill (205), 17.viii.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Radějov, Měsíční údolí valley (214), 8.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt. (PKPC). Velká nad Veličkou (220), 29.vi.1986, 1 ♂, J. Vilimová lgt. (JVPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 19.vi.2000, 1 ♀ (freshly hatched) 1 L5, P. Kment lgt., 9.–10.ix.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 18.viii.2000, 1 ♀, P. Kment lgt. (PKPC); 5.–24.viii.2009, Mt, 4 ♂♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, village (239), linden alley towards cemetery, on *Tilia* sp., 8.viii.2001, 1 ♀, P. Kment lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 15.vii.–5.viii.2009, Mt, 3 ♂♂, 5.–24.viii.2009, Mt, 4 ♂♂ 1 ♀, 14.ix.–22.x.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Hryzlácké Mlýny (246), 15.vii.–4.viii.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Nová Lhota, Vápenky, left-side tributary of Velička river (252), 15.vii.–5.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Vápenky, Velička brook valley below Hubertova bouda hut (253), 22.iv.2005, 1 ♂, J. Ježek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 10.viii.–7.ix.2010, Mt, 1 ♂ 3 ♀♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 18.vi.–9.vii.2007, Mt, 1 ♂, 2.–22.viii.2007, Mt, 2 ♂♂ 1 ♀, 22.viii.–10.ix.2007, Mt, 1 ♂, 10.ix.–3.x.2007, Mt, 2 ♂♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt., 10.viii.–7.ix.2010, Mt, 1 ♂, 7.ix.–21.x.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 9.vii.–2.viii.2007, Mt, 1 ♂, 2.–22.viii.2007, 1 ♂, 10.ix.–3.x.2007, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 9.vii.–12.viii.2010, Mt, 4 ♂♂ 1 ♀, 12.viii.–9.ix.2010, Mt, 1 ♂ 1 ♀, 9.ix.–22.x.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 23.vi.–15.vii.2009, Mt, 2 ♂♂, 15.vii.–6.viii.2009, Mt, 2 ♂♂, 6.–24.viii.2009, Mt, 3 ♂♂, 24.viii.–17.ix.2009, Mt, 2 ♂♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Eurosiberian, extending to Maghreb, Anatolia and Iran. **Biology and habitat:** A polyphagous phytophage or zoophytophage. On deciduous trees (*Betula*, *Corylus*, *Alnus*, *Carpinus*, *Quercus*, *Fagus*), rarely on conifers (*Pinus*, *Picea*). From lowlands to high altitudes. Common (STEHLÍK 1986, WACHMANN *et al.* 2008). **Red List status:** –.

***Peribalus (Peribalus) strictus strictus* (Fabricius, 1803)**= *Holcostethus (Holcostethus) vernalis* (Wolff, 1804)

Published records. STEHLÍK (1986, as *Holcostethus vernalis*): Brumov, Na Tatrách [= Holý vrch hill] (79); Blatnice [pod Svatým Antonínkem] (7070); Horní Němčí, Lesná hill (123); Bánov (7072); Lopeník, Mikulčín vrch hill (160); Strání (70–7172); Javorník (7171); Nová Lhota (7171). KMENT (2001, as *Peribalus vernalis*): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 13.v.–3.vi.2008, Mt, 1 ♂ 1 ♀, 23.vi.–16.vii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 2 ♀♀, M. Horsák & P. Kment lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 22.v.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Poteč, Ploštiny NR (42), 13.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt., 17.viii.2006, 1 ♂, P. Kment lgt. (PKPC). Brumov, Uhlíčky (44), 28.v.2005, 1 ♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 14.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 20.v.1999, 2 ♀♀, P. Kment & I. Malenovský lgt., 25.viii.2002, 1 ♂, P. Kment lgt., 30.vi.2004, 1 ♀, 16.vi.2006, 1 ♀, I. Malenovský lgt. (PKPC). Nedašov, Jalovcová stráž NR (54) and along road to Nedašov (52), 10.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Kaňoury NM (55), 3.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt., 17.vi.2006, 2 ♂♂, I. Malenovský lgt., 12.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt., 16.viii.2006, 1 ♂ 1 ♀, P. Kment lgt. (PKPC). Petrůvka, Kladenska brook valley (64), 4.–25.viii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Brumov, Kloboucká street (76), 2.ix.2004, 1 ♂ 1 ♀, I. Malenovský lgt. (PKPC). Bylnice, Na Stráži (77), 11.vii.2006, 1 ♀, 18.viii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 5.x.2004, 1 ♂, I. Malenovský lgt. (PKPC). Lopeník (152), 8.vi.1999, 1 ♀, K. Hradil lgt. et det. (KHMC). Lopeník, U Zvonice NM (155), 27.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Žitková, Hutě NR (164), 11.iv.–9.v.2007, Mt, 1 ♂ 1 ♀, 9.–29.v.2007, Mt, 1 ♂ 1 ♀, 29.v.–19.vi.2007, Mt, 1 ♂, 19.vi.–11.vii.2007, Mt, 2 ♀♀, 11.–31.vii.2007, Mt, 1 ♂ 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 2.vii.2007, 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 1 L, 22.ix.2007, 1 ♀, P. Kment lgt. (PKPC). Vyškovec, Pod Hřibovňou NM (176), 25.ix.2004, 1 ♂, P. Kment lgt., 3.ix.2005, 3 ♀♀, I. Malenovský lgt. (PKPC). Vyškovec, Ve Vlčí NR (177), 22.v.2005, 1 ♀, I. Malenovský lgt. (PKPC). Vyškovské Bošачky, cattle pasture (179), 25.ix.2004, 2 ♀♀, P. Kment lgt. (PKPC). Vyškovské Bošачky, meadow and orchard (180), 8.v.2004, 1 ♀, P. Kment lgt. (PKPC). Vyškovské Bošачky, meadow and orchard (180), 27.vi.2004, 1 ♂, 21.v.2005, 1 ♀, I. Malenovský lgt. (PKPC). Radějov, Žerotín NM (188), 14.v.–4.vi.2008, Mt, 1 ♂ 1 ♀, 26.vi.–14.vii.2008, Mt, 1 ♂, 5.–26.viii.2008, Mt, 2 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Radějovka brook valley below Čertoryje (198), 22.vi.2001, 1 ♂, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 27.vi.2002, 1 ♀, I. Malenovský lgt. (PKPC). Malá Vrbka, between village and Výzkum hill (205), 16.viii.2000, 1 ♀, P. Kment lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 5.v.2000, 2 ♂♂ 2 ♀♀, I. Malenovský lgt., 28.vii.2001, 2 ♀♀, P. Kment & I. Malenovský lgt., 18.v.2002, 1 ♀, I. Malenovský lgt. (PKPC). Hrubá Vrbka, football ground (211), 20.ix.2001, 1 ♀, M. Omesová lgt. (MUBC). Radějov, Kútky NR (217), 26.vi.–15.vii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.v.1998, 1 ♂, P. Kment lgt. (PKPC); 13.vii.1998, 1 ♀, M. Omesová lgt. (MUBC); 18.iv.2000, 1 ♂, P. Kment & I. Malenovský lgt., 18.viii.2000, 1 ♂, P. Kment lgt. (PKPC). Suchovské Mlýny, meadow (227), 23.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 6.v.2000, 1 ♀, I. Malenovský lgt., 19.vi.2000, 3 ♀♀, I. Malenovský lgt., 18.viii.2000, 1 ♂, P. Kment lgt., 3.v.2001, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 6.iv.–12.v.2009, Mt, 3 ♂♂ 4 ♀♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, loampit (235), 10.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt. (PKPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 6.iv.–12.v.2009, Mt, 1 ♂, 14.ix.–22.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Petruchovy Mlýny, meadow (243), 23.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 7.iv.–12.v.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 14.v.1998, 1 ♀, P. Šmarda lgt. (PSBC); 8.v.2000, 1 ♀, I. Malenovský lgt. (PKPC); 12.iv.–8.v.2007, Mt, 1 ♂, 8.–28.v.2007, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt., 7.iv.–5.v.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR, Rybnický potok brook E of Machová hill (260), 9.vii.–2.viii.2007, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 23.v.2002, 1 ♀, P. Kment lgt. (PKPC); 7.iv.–5.v.2010, Mt, 1 ♂, P. Chvojka & J. Macek lgt. (NMPC). Strání, Nová hora NR (268), 25.v.1999, 1 ♀, H. Hiršová lgt. (PKPC). Strání, Javorina NNR, forest (269), 4.vii.2001, 1 ♀, M. Horsák & P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Holopalaeartic, extending to Pakistan. **Biology and habitat:** A polyphagous phytophage. On herbs as well as on deciduous trees. Euryecious, in dry to quite humid, warm habitats. Common, rare or missing at high altitudes (STEHLÍK 1986, WACHMANN *et al.* 2008). **Red List status:** –.

Comments. *Holcostethus vernalis* (Wolff, 1804) was recently synonymized with *H. strictus* by RIBES *et al.* (2006); its generic placement has been independently revised by BELOUSOVA (2007).

Picromerus bidens (Linnaeus, 1758)

Published records. STEHLÍK (1987): Hrádek (towards Hostětín) [= Rokytnice, Bukovina hill] (6973a4); Štítná nad Vláří (towards Popov) (71); Sidonie (6974); Radějov, Holý vrch hill (189). KMENT (2001): Kněždub, Čertoryje NNR (202). Record from Nedašova Lhota, 4.5 km NE of the village [6874] by STEHLÍK & VAVŘINOVÁ (1997b) concerns the area of Slovakia.

Material examined. Valašské Klobouky, Javorůvky NR (32), 1.x.2007, 1 ♀, O. Konvička lgt. (PKPC). Valašské Klobouky, Na Nivách (34), 9.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Valašské Klobouky, NW slope of Královec hill (35), 10.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Poteč, Ploščiny NR (42), 13.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Pitín (72), 20.vii.1957, 1 ♀, Ondřej lgt. (MMBC). Bylnice, Lazy NR and environs (82), 12.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Bylnice, railway station environs (83), 11.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Suchov, Kazivec brook valley (116), 9.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt. (PKPC). Strání, Klanečnice brook valley between village and Žabka reservoir (143), 10.ix.1998, 1 ♂ 1 ♀, I. Malenovský & M. Omesová lgt. (PKPC). Výškovce, Pod Hribovňou NM (176), 3.ix.2005, 1 ♂, I. Malenovský lgt. (PKPC). Radějov, Žerotín NM (188), 11.vii.1998, 1 ♂ (freshly hatched), P. Kment lgt. (PKBC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 13.vii.1998, 1 ♂ 1 ♀, P. Kment lgt. (MHBC, PKPC); 19.vi.2000, 1 ♂, P. Kment lgt. (MUBC); 9.–10.ix.2000, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 10.ix.2000, 2 ♂♂ 1 ♀, P. Kment & I. Malenovský lgt. (MUBC, PKPC). Vápenky, Porážky NNR (247), 15.vii.1998, 1 ♀, 9.ix.1998, 1 ♀, I. Malenovský & M. Omesová lgt. (PKPC). Javorník, Machová NR (259), 9.vii.1998, 1 ♂, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area.

General distribution: Holarctic (Holopalaeartic and Nearctic). **Biology and habitat:** Zoophagous. Euryecious, mostly found on herbaceous vegetation, less frequently on woody plants; from lowland to high altitudes. Common (STEHLÍK 1987, WACHMANN *et al.* 2008). **Red List status:** –.

Piezodorus lituratus (Fabricius, 1794)

Published records. BALTHASAR (1945, as ab. *alliaceus*): Luhačovice (68–6972). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Nedašov, Jalovcová stráň NR (54), 25.viii.2002, 1 ♀, P. Kment lgt., 16.viii.2006, 2 ♂♂, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráň NR (54) and along road to Nedašov (52), 10.ix.1999, 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Nedašov, Kaňoury NM (55), 17.vi.2006, 1 ♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 14.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 1 ♀, P. Kment & I. Malenovský lgt., 13.viii.2001, 1 ♂ 1 L5, P. Kment lgt. (PKPC). Žitková, Hutě NR (164), 29.v.–19.vi.2007, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 8.viii.2007, 1 L5, P. Kment lgt. (PKPC). Starý Hrozenkov, Skalka quarry (169), 8.viii.2007, 1 ♂, P. Kment lgt. (PKPC). Radějov, Žerotín NM (188), 14.v.–4.vi.2008, Mt, 2 ♂♂, 26.vi.–14.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Radějov, Kútky NR (217),

15.vii.–5.viii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, loampit (235), 24.v.2002, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Machová NR (259), 8.v.2000, 1 ♀, I. Malenovský lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 14.v.1998, small field of *Medicago sativa*, 1 ♂ 3 ♀♀, P. Kment lgt. (PKPC); 13.vii.1998, 1 ♂ 1 L, P. Kment lgt. (MHBC, PKPC); 19.vi.2000, 1 ♀, P. Kment lgt., 9.–10.ix.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 8.iv.–12.v.2009, Mt, 1 ♀, 12.v.–2.vi.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & M. Macek lgt., 7.iv.–5.v.2010, Mt, 1 ♀, P. Chvojka & M. Macek lgt. (NMPC). Suchovské Mlýny, meadow (227), 26.v.2005, 1 ♀, I. Malenovský lgt. (PKPC). Trnovský Mlýn, meadow (229), 26.v.2005, 1 ♀, I. Malenovský lgt. (PKPC). Nová Lhota, Hryzlácké Mlýny (246), 7.iv.–12.v.2009, Mt, 2 ♂♂, 16.ix.–22.x.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Nová hora hill (267), field of *Trifolium pratense* and *T. incarnatum*, 16.v.1998, 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Common in xerothermic sites throughout the area. **General distribution:** Eurosiberian and Holomediterranean. **Biology and habitat:** On Fabaceae (especially on *Cytisus scoparius* and *Genista tinctoria*, but also on *Medicago*, *Vicia*, *Melilotus*, *Coronilla*, *Onobrychis*, and *Lupinus*). In xerothermic localities, absent from high altitudes. Widespread, not rare (STEHLÍK 1986, WACHMANN *et al.* 2008). **Red List status:** –.

Pinthaeus sanguinipes (Fabricius, 1781)

Published records. STEHLÍK (1987): Radějov, “Rozsocháč”, valley of the Mandát stream (214). KMENT & BRYJA (2001): Javorník, Jazevčí NNR (232).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, recently collected at one site in the southern part of the area. **General distribution:** South Eurosiberian, extending to the Near East. **Biology and habitat:** Zoophagous, feeding e.g. on larvae and adults of Lepidoptera, larvae and pupae of Hymenoptera, Diptera, and larvae of Coleoptera: Chrysomelidae. It is considered mesophilous and a forest inhabitant, collected mostly on deciduous trees (especially *Alnus glutinosa*), less frequently on conifers, shrubs, and herbaceous vegetation (STEHLÍK 1987, WACHMANN *et al.* 2008, KMENT *et al.* 2009b). **Red List status:** –.

Comments. A very rare species, not collected in Moravia between 1952 and 1996; see KMENT *et al.* (2009b) for a review of its distribution in the country.

Podops (Podops) inunctus (Fabricius, 1775)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 6.vii.2002, 1 ♀, M. Horsák lgt. (PKPC). Malá Vrbka, Výzkum hill, restored grassland (208), 8.iv.–5.v.2000, pt, 1 ♀, P. Bezděčka lgt., 22.x.2000, 1 ♀, 20.ix.2001, 1 ♂, 4.x.2002, 1 ♂, P. Kment lgt. (PKPC). Hrubá Vrbka, football ground (211), 8.vii.2000, 1 ♂ (freshly hatched), P. Kment lgt. (PKPC). Suchovské Mlýny, meadow (227), 6.v.–4.vi.2005, pt, 1 ♂, K. Rešl lgt. (PKPC). Javorník, Petruchovy Mlýny, cattle pasture (242), 26.v.2005, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 23.vi.2004, 1 ♀, I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, most records come from the south; rare. **General distribution:** European, extending to Maghreb. **Biology and habitat:** A polyphagous phytophage (e.g. on Caryophyllaceae, Poaceae, and Lamiaceae). Epigeic, usually occurring in root systems, mostly in moist meadows and shore vegetation. In Moravia in warm and moderately warm climatic

regions. Widespread, but rarely collected (STEHLÍK 1984, WACHMANN *et al.* 2008). **Red List status:** –.

***Rhaphigaster nebulosa* (Poda, 1761)**

Material examined. Radějov, Žerotín NM (188), 14.v.–4.vi.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only with a Malaise trap in a single xerothermic site at the southern border of the area. **General distribution:** Holomediterranean, extending to central Europe, and Central Asiatic, extending to Pakistan. **Biology and habitat:** Phytozoophagous. On various deciduous trees and shrubs (Fagaceae, Betulaceae, Rosaceae), rarely on conifers, in xerothermic sites; adults often enter buildings in seek for overwintering places. In Moravia largely restricted to the Pannonicum, rare elsewhere (STEHLÍK 1986, WACHMANN *et al.* 2008). **Red List status:** –.

***Rubiconia intermedia* (Wolff, 1811)**

(NT)

Published record. STEHLÍK (1985): Sidonie (6974); Korytná (7071–72).

Material examined. Nedašov, Jalovcová stráň NR (54), 3.vii.1999, 1 ♂ 1 ♀, P. Kment & I. Malenovský lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Collected only in the northern and central parts of the area, rare. **General distribution:** Eurosiberian, extending to Maghreb and southern China. **Biology and habitat:** A polyphagous phytophage (Lamiaceae, Ericaceae, Fabaceae, etc.). In dry as well as humid, open to half-shaded habitats, especially in forest clearings (STEHLÍK 1985, WACHMANN *et al.* 2008). In Moravia rare in lowlands, more common in hilly landscapes (STEHLÍK 1985). **Red List status:** Near-threatened.

***Sciocoris (Aposciocoris) microphthalmus* Flor, 1860**

Published record. STEHLÍK (1984): Velká nad Veličkou (towards Javorník) (240).

Material examined. Nedašov, Kaňoury NM (55), 17.vi.2006, 1 ♀, I. Malenovský lgt. (PKPC). Horní Němčí, Drahy NR (117), 30.vi.2001, 2 ♂♂, P. Kment & I. Malenovský lgt., 23.v.2002, 1 ♂, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** Holarctic (Eurosiberian and Nearctic). **Biology and habitat:** Found on various herbs and grasses (*Rhinanthus*, *Adonis vernalis*, *Echium*, *Scabiosa*, *Teucrium*, *Thymus*, *Poa*). Epigeic; in xerothermic habitats (dry grassland, sunny slopes with scrub, grassy stands at forest margins), preferring medium to high altitudes. Widespread, but quite rare (STEHLÍK 1984, WACHMANN *et al.* 2008). **Red List status:** –.

***Sciocoris (Aposciocoris) umbrinus* (Wolff, 1804)**

(NT)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, collected only on one site in the southern part of the area. **General distribution:** Eurosiberian, extending to Maghreb and the Near East. **Biology and habitat:** Found in detritus under various plants (e.g. *Erica*, *Calluna*, *Vaccinium*, *Thymus*, *Artemisia*, *Peucedanum oreoselinum*). Epigeic, euryecious, in xerothermic as well as in moister and half-shaded habitats, on steppe localities as well as mountain meadows up to 1000 m a.s.l. Rare (STEHLÍK 1984, WACHMANN *et al.* 2008). **Red List status:** Near-threatened.

***Stagonomus (Dalleria) bipunctatus* (Linnaeus, 1758)**

= *Stagonomus pusillus* (Herrich-Schaeffer, 1830)

Material examined. Nedašov, Jalovcová stráň NR (54), 8.vii.2002, 1 ♂, M. Horsák lgt. (MHBC). Nedašov, Jalovcová stráň NR (54) and along road to Nedašov (52), 10.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Žitková, Hutě NR (164), 9.–29.v.2007, Mt, 2 ♀♀, 29.v.–19.vi.2007, Mt, 2 ♀♀, 19.vi.–11.vii.2007, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Collected only on two sites in the northern and central parts of the area, rare. **General distribution:** West Palaearctic. **Biology and habitat:** On Lamiaceae (*Ajuga*, *Scutellaria*, *Teucrium montanum*, *Thymus*) and Scrophulariaceae (*Veronica officinalis*, *Scrophularia nodosa*, *Verbascum*). In undulated landscape from medium-high altitudes to lowland, on dry to slightly humid, often half-shaded habitats, particularly in forest clearings and edges. Widespread, quite rare (STEHLÍK 1985, as *S. pusillus*; WACHMANN *et al.* 2008). **Red List status:** –.

***Troilus luridus* (Fabricius, 1775)**

Published record. STEHLÍK (1987): Blatnice [pod Svatým Antonínkem] (7070).

Material examined. Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Javorník, Machová NR (259), 8.–28.v.2007, Mt, 1 ♀, 28.v.–18.vi.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, rare. **General distribution:** Holopalaearctic (except southern parts of the Mediterranean region), extending to Burma and India. **Biology and habitat:** Zoophagous, mostly preying on larvae of Lepidoptera, larvae, pupae and adults of Coleoptera (mostly Chrysomelidae), larvae of Hymenoptera, as well as larvae and adults of Hemiptera. Arborescent, both on deciduous trees and conifers; in closed forests, forest edges as well as on solitary trees (STEHLÍK 1987, WACHMANN *et al.* 2008). In Moravia rare or missing in warm lowland, widespread in moderately warm to cold regions (STEHLÍK 1987). **Red List status:** –.

***Vilpianus galii* (Wolff, 1802)**

(VU)

Material examined. Blatnička, Milejovské louky meadows (104), 16.viii.2009, 4 ♂♂ 3 ♀♀, P. Baňář lgt. et det. (MMBC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare; a steppic element, in the Bílé Karpaty Mts. found only on one locality on the south-western border of the area. **General distribution:** Holomediterranean, extending to the Pannonicum, and Central Asiatic. **Biology and habitat:** Phytophagous on *Galium* spp. (especially *G. verum*) and *Asperula* spp. (STEHLÍK 1984, WACHMANN *et al.* 2008). In Moravia largely confined to dry grassland localities in the Pannonicum and on its outskirts, mostly river valleys opening onto the Pannonicum (STEHLÍK 1984, MALENOVSKÝ *et al.* 2011). **Red List status:** Vulnerable.

Zicrona caerulea (Linnaeus, 1758)

Published record. KMENT & VILÍMOVÁ (2010b): Javorník, Petruchovy Mlýny (243).

Material examined. Valašské Klobouky, Brumovka brook valley (29), 30.vi.1999, 1 L, M. Horsák & P. Kment lgt. (PKPC). Nedašov, Pod Cigánem NM (91), 28.v.2005, 1 ♀, I. Malenovský lgt. (PKPC). Kněždub, Čertoryje NNR, Radějovka brook (204), 14.vii.–12.viii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Malá Vrbka, Výzkum hill, restored grassland (208), 25.v.2000, 1 ♀, I. Malenovský lgt. (PKPC). Javorník, Jazevčí NNR (232), 4.v.1995, 1 ♀, I. Čepička lgt., 19.vi.2000, 1 ♂ 1 L, I. Malenovský lgt. (PKPC); 6.iv.–12.v.2009, Mt, 1 ♀, 25.vi.–15.vii.2009, Mt, 1 ♂ 1 ♀, 15.vii.–5.viii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Nad Vápenkou NM (236), 7.ix.2002, 1 L, I. Malenovský lgt. (PKPC). Javorník, Petruchovy Mlýny, meadow (243), 23.ix.2001, 1 ♂, P. Kment lgt. (PKPC). Vápenky, Porážky NNR (247), 9.ix.1998, 1 ♂ 1 ♀ (1 ♀ freshly hatched), I. Malenovský & M. Omesová lgt. (MHBC, PKPC). Javorník, Machová NR (259), 9.vii.1998, 1 ♀ (freshly hatched) 1 L, P. Kment lgt. (PKPC). Strání, Záhumenice NM (266), 9.vii.–12.viii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR, meadow (270), 17.ix.–21.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Widespread in the southern part of the area, quite rare in the northern parts. **General distribution:** Holarctic (Holopalaearctic and Nearctic), Neotropical, and Oriental. **Biology and habitat:** Zoophagous, mostly preying on eggs and larvae, rarely on adults of Chrysomelidae. On herbs, less frequently on trees; preferring moist places such as peat bogs or shores of ponds (STEHLÍK 1987, WACHMANN *et al.* 2008). In Moravia rare in warm lowlands, widespread in moderately warm to cold regions (STEHLÍK 1987). **Red List status:** –.

Family ACANTHOSOMATIDAE

Acanthosoma haemorrhoidale haemorrhoidale (Linnaeus, 1758)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 23.vi.–16.vii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 16.viii.2007, 1 ♀, J. Ježek lgt. (NMPC). Sidonie, Sidonie NR (87), 16.vi.–5.vii.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Horní Němčí, Drahy NR (117), 10.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt., 21.ix.2001, 1 ♀, P. Kment lgt. (PKPC). Vyškovské Bošacký, W slope of Kykula hill (161), 4.v.2007, 1 spec., J. Němec photographed, P. Kment det. Žitková, Hutě NR (164), 29.v.–19.vi.2007, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (PKPC). Radějov, Žerotín NM (188), *Quercetum pubescentis* and vineyards, 30.viii.2005, 1 spec. (freshly hatched), M. Horsák lgt. (PKPC); 4.–26.vi.2008, Mt, 1 ♂, 26.vi.–14.vii.2008, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Kněždub, Kejda pond (196), 14.vii.1998, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Čertoryje NNR (202), 20.ix.2001, 1 ♀, M. Omesová lgt. (MUBC). Kněždub, Čertoryje NNR, Radějovka brook (204), 5.–25.v.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Hrubá Vrbka, football ground (211), 8.vii.2000, on *Populus*

nigra, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, village (222), on *Betula* sp., 19.vi.2000, 1 ♀, P. Kment lgt. (PKPC). Velká nad Veličkou, Zahrady pod Hájem NNR (225), 18.viii.2000, 1 ♀, P. Kment lgt., 9.–10.ix.2000, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 30.vi.–1.vii.2008, at night, 1 ♂, Z. Malinka lgt. (ZMOC); 25.vi.–15.vii.2009, Mt, 1 ♀, 14.ix.–20.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & M. Macek lgt. (NMPC). Javorník, Jazevčí NNR (232), 6.v.2000, 1 ♀, I. Malenovský lgt., 18.viii.2000, 1 ♀, P. Kment lgt. (PKPC); 25.vi.–15.vii.2009, Mt, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Javorník, Jazevčí NNR, left-side tributary of Velička river (241), 14.ix.–22.x.2009, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Vápenky, Porážky NNR (247), 9.ix.1998, 1 ♂, I. Malenovský & M. Omesová lgt. (PKPC). Javorník, Machová NR, Rybnický potok brook N of Machová hill (256), 24.v.–15.vi.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Javorník, Machová NR (259), 8.–28.v.2007, Mt, 1 ♂, 18.vi.–9.vii.2007, 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Strání, Záhumenice NM (266), 25.v.–15.vi.2010, Mt, 1 ♀, 9.vii.–12.viii.2010, Mt, 1 ♂, 9.ix.–22.x.2010, Mt, 1 ♀, P. Chvojka & J. Macek lgt. (NMPC). Strání, Javorina NNR (269, 270), 29.x.2011, 1 ♂, I. Malenovský lgt. (PKPC). Strání, Javorina NNR, meadow (270), 23.vi.–15.vii.2009, Mt, 1 ♂, 15.vii.–6.viii.2009, Mt, 1 ♂ 1 ♀, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Eurosiberian, extending to Anatolia and Iran. **Biology and habitat:** On shrubs and deciduous trees, especially those producing berries (*Sorbus aucuparia*, *Crataegus*, *Prunus spinosa*, *P. serotina*, *Sambucus nigra*, *Cornus*, *Viburnum opulus*) (STEHLÍK 1984, WACHMANN *et al.* 2008). Widespread but usually found in low numbers (STEHLÍK 1984). **Red List status:** –.

Cyphostethus tristriatus (Fabricius, 1787)

Published records. KMENT & BRYJA (2001): Poteč, Ploščiny NR (42); Nedašov, Jalovcová stráž NR (54).

Material examined. Poteč, Ploščiny NR (42), 17.iii.2006, on *Juniperus communis*, 1 ♂, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 25.viii.2002, on *Juniperus communis*, 1 ♂, P. Kment lgt., 16.vi.2006, 1 ♂ 3 ♀♀, I. Malenovský lgt., 16.viii.2006, 2 ♂♂ 1 ♀, P. Kment lgt. (PKPC). Horní Němčí, Drahy NR (117), 21.ix.2001, on *Juniperus communis*, 1 ♂, P. Kment lgt. (PKPC). Lopenické Bošacký (158), 26.iv.2007, 1 ♂, O. Konvička lgt. (OKZC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, quite rare. **General distribution:** West Palaearctic. **Biology and habitat:** On Cupressaceae; rare on native *Juniperus communis* under natural conditions, but common on non-native cultivated species (*Thuja*, *Chamaecyparis*, etc.) in towns and villages (STEHLÍK 1984, 1998a; KMENT & BRYJA 2001; WACHMANN *et al.* 2008). **Red List status:** –.

Elasmostethus interstinctus (Linnaeus, 1758)

Published record. KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 6.viii.1999, 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Brumovka brook valley (29), forest edge, deciduous trees, 30.vi.1999, 1 ♀, M. Horsák & P. Kment lgt. (PKPC). Poteč, Ploščiny NR (42), 4.vii.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC); 13.ix.1999, 7 ♂♂ 4 ♀♀ (1 ♂ freshly hatched), I. Malenovský & T. Vymyslický lgt. (MHBC, MUBC, PKPC); 17.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 14.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Nedašov, Jalovcová stráž NR (54), 3.vii.1999, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Lopeník (152), 8.vi.1999, 1 ♂ 2 ♀♀, K. Hradil lgt. et det. (KHMC). Lopeník, Od Březovska (154), at light, 10.–13.vi.1999, 1 ♂, V. Vrabec lgt. (VVKC). Lopeník, U Zvonice NM (155), 30.v.2005, 1 ♀, P. Kment lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered in the northern and central parts of the area, while there is only one record from the south. **General distribution:** Holarctic (Eurosiberian and Nearctic). **Biology and habitat:** Larvae develop on fruiting *Betula* (*B. pendula*, *B. pubescens*) and in lesser extent on *Alnus* (*A. glutinosa*, *A. incana*), adults also on other deciduous trees and shrubs. From lowland to the highest mountain elevations (STEHLÍK 1984, WACHMANN *et al.* 2008). **Red List status:** –.

Elasmostethus minor Horváth, 1899

(VU)

Material examined. Valašské Klobouky, Královec hill (33), 22.v.1999, on *Lonicera xylosteum*, 1 ♀, P. Kment & I. Malenovský lgt., 10.ix.1999, 1 ♂ 2 ♀♀, I. Malenovský & T. Vymyslický lgt. (PKPC).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, found only on one site in the northern part of the area. **General distribution:** West Eurosiberian, extending to Transcaucasia. **Biology and habitat:** On *Lonicera xylosteum*, more rarely on *L. nigra*. In undergrowth of open woodland, at forest margins and hedges in hilly landscapes. Rare (STEHLÍK 1984, WACHMANN *et al.* 2008). **Red List status:** Vulnerable.

Elasmucha fieberi (Jakovlev, 1865)

Published record. STEHLÍK (1984): Lopeník, Mikulčín vrch hill (160).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, not found in the course of the recent survey. **General distribution:** Eurosiberian. **Biology and habitat:** On fruiting *Betula* and *Alnus* in closed forests as well as on solitary trees at medium altitudes (STEHLÍK 1984, WACHMANN *et al.* 2008). In Moravia rare, missing in warmest regions (STEHLÍK 1984). **Red List status:** –.

Elasmucha grisea grisea (Linnaeus, 1758)

Published records. STEHLÍK (1984): Bylnice, Na Tatrách, Bylnický potok brook [= Bylničky, Tarandové hill] (80). KMENT (2001): Kněždub, Čertoryje NNR (202).

Material examined. Petrůvka, U Petrůvky NM (14), 6.viii.1999, 1 ♀, P. Kment lgt. (PKPC). Poteč, pond (27), on *Betula* sp., 1.vii.1999, 1 ♀, P. Kment & M. Omesová lgt. (PKPC). Valašské Klobouky, Brumovská street (30), 9.ix.1999, 1 ♀, I. Malenovský lgt. (PKPC). Valašské Klobouky, Dobšená NM (31), 22.v.1999, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, NW slope of Královec hill (35), 10.ix.1999, 1 ♂, I. Malenovský & T. Vymyslický lgt. (PKPC). Poteč, Ploštiny NR (42), 4.vii.1999, 4 ♂♂ 3 ♀♀, P. Kment & I. Malenovský lgt., 13.ix.1999, 2 ♀♀, I. Malenovský & T. Vymyslický lgt., 17.viii.2006, 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, brooklet ravine (46), 23.viii.2002, 1 ♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 47, 48), 14.viii.2006, 2 ♀♀, P. Kment lgt. (PKPC). Valašské Klobouky, Bílé potoky NR (46, 48), 11.vii.2006, 1 ♂, P. Kment & I. Malenovský lgt. (PKPC). Valašské Klobouky, Bílé potoky NR, meadow (48), 19.v.1999, 2 ♀♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňoury NM (55), 20.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Nedašov, Kaňúr hill (56), 20.v.1999, 1 ♀, P. Kment & I. Malenovský lgt. (PKPC). Bylnice, railway station environs (83), 21.v.1999, 1 ♂ 1 ♀, 11.ix.1999, 1 ♂ 1 ♀, I. Malenovský & T. Vymyslický lgt. (PKPC). Horní Němčí, village (109), on *Betula* sp., 13.viii.2001, 1 ♂, P. Kment lgt. (PKPC). Korytná, Březí (113), 5.vii.2001, 1 ♂, P. Kment lgt. (PKPC). Horní Němčí, NR Drahý (117), 21.ix.2001, 1 ♂, P. Kment lgt. (PKPC). Lopeník, Hrubár brook valley (156), 9.vi.2000,

1 ♂, M. Horsák lgt., 9.x.2004, 1 ♀, P. Kment lgt. (PKPC). Starý Hrozenkov, Hrozenkovské terasy (167), 1 ♀, 8.viii.2007, P. Kment lgt. (PKPC). Vápenice, V Krátkých (170), 6.vii.2001, 1 ♀, P. Kment lgt. (PKPC). Výskovecké Bošacký, cattle pasture (179), 24.vii.2005, 1 ♀, P. Kment lgt. (PKPC). Kněždub, Radějovka brook valley below Čertoryje (198), 14.vii.1998, on *Betula* sp., 3 ♂♂ 2 ♀♀ 7 L, P. Kment lgt. (PKPC). Radějov, Měsíční údolí valley (214), 8.ix.1998, 2 ♀♀, I. Malenovský & M. Omesová lgt. (PKPC). Radějov, Mandát brook valley below Kútky NR (218), 15.vii.–5.viii.2008, Mt, 1 ♂, P. Chvojka, J. Ježek & J. Macek lgt. (NMPC). Velká nad Veličkou, village (222), on *Betula* sp., 13.vii.1998, 1 ♂, P. Kment lgt. (PKPC). Javorník, village (239), on *Betula* sp., 6.v.2000, 3 ♂♂, I. Malenovský lgt., 24.v.2002, 1 ♂, P. Kment lgt. (PKPC). Strání, Mechnáčky NM (264), 4.viii.2007, 1 ♂, P. Komzák lgt. (PKBC). Strání, Záhumenice NM (265), 21.ix.2001, 1 ♂ 1 ♀, M. Omesová lgt. (MUBC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.

General distribution: Eurosiberian, extending to Anatolia and Transcaucasia. **Biology and habitat:** On *Betula*, less frequently on *Alnus*. Euryecious, common (STEHLÍK 1984, WACHMANN *et al.* 2008). **Red List status:** –.

Discussion and conclusions

The material acquired during the field work in the Bílé Karpaty PLA in 1998–2010, supplemented by hitherto unidentified material from the Moravian Museum, Brno, and several additional private and institutional collections yielded 10,732 faunistic records (i.e. records of one species from one locality and date). Altogether *ca.* 35,984 specimens of Heteroptera were examined. This material includes 485 species. In combination with previously published records, a total of 501 species of true bugs has been recorded from the Bílé Karpaty PLA to date. This number represents 57.9% of the heteropteran fauna of the Czech Republic. For comparison, numbers of species recorded for other well-explored areas in the Czech Republic, Slovakia and surrounding countries are: the Krkonoše Mts. – 179 species (ROUBAL 1959, 1961, 1969), the Hrubý Jeseník Mts. – 181 species (STEHLÍK 1952), the Poodří PLA – 225 species (BRYJA & KMENT 2001), the Ojców National Park (Poland) – 230 species (CHŁOND & GORCZYCA 2009), the Poloniny National Park (Slovakia) and the Bieszczady National Park (Poland) – 233 species (BRYJA & KMENT 2007, GORCZYCA & LIS 2000), the Kokořínsko PLA – 305 species (BRYJA & KMENT 2006a), the Pálava PLA in its extended concept – *ca.* 520 species (STEHLÍK 1995, KMENT 1999, BRYJA & KMENT 2006b; P. Kment, J. Bryja & K. Hradil, unpublished), the Keszthely Region at the western edge of Lake Balaton (Hungary) – 572 species (KONDOROSY 2011), and the Austrian part of the Lake Neusiedlersee Region – 589 species (MELBER *et al.* 1991). This comparison shows that the Bílé Karpaty PLA surpasses all the other mountain or colder regions, being exceeded only by xerothermic regions lying more to the south with numerous steppe and floodplain localities that are especially rich in Heteroptera. Undoubtedly, the Bílé Karpaty PLA can be regarded an important centre of biodiversity in the context of the Czech Republic, and not only for true bugs (see also MALENOVSKÝ *et al.* 2012).

The high biodiversity of Heteroptera in the Bílé Karpaty PLA is not only characteristic of the region as a whole, but also of particular, well-preserved localities within it. The number of species known from the eighteen best-explored sites (mostly small-scale protected areas, i.e. reserves) is given in Table 2. The list of the localities

True bugs (Hemiptera: Heteroptera)

Table 2. Number of species of Heteroptera recorded from the best-explored localities in the Bílé Karpaty PLA. Abbreviations: Mt – Malaise trap, Pt – pitfall traps, Q – qualitative samples (sweep-netting, individual collecting), Sq – semiquantitative samples by sweep-netting, Ypt – yellow pan traps.

Locality number	Locality	Collecting methods	No. of species
256+259+260	Javorník, Machová NR	Mt, Q	209
202+204	Kněždub, Čertoryje NNR	Mt, Q, Sq	201
225	Velká nad Veličkou, Zahrady pod Hájem NNR	Mt, Q	187
232+241	Javorník, Jazevčí NNR	Mt, Q, Sq	182
205+208+210	Malá Vrbka, Výzkum hill	Pt, Q, Sq	148
117	Horní Němčí, Drahy NR	Pt, Q, Sq	142
265+266	Strání, Záhumenice NR	Mt, Pt, Q, Sq	139
52+54	Nedašov, Jalovcová stráž NR	Q, Sq	125
214+216+217+218+219	Radějov, Měsíční údolí valley	Mt, Q	123
188	Radějov, Žerotín NM	Mt, Q	121
46+47+48	Valašské Klobouky, Bílé potoky NR	Mt, Q, Ypt	115
55	Nedašov, Kaňoury NM	Q	115
42	Poteč, Ploščiny NR	Q, Sq	107
164	Žitková, Hutě NR	Mt	100
253+254+255+269+270	Strání, Javorina NNR	Mt, Q	98
169	Starý Hrozenkov, Skalka quarry	Q	95
14	Petrůvka, U Petrůvky NM	Mt, Q	91
179+180	Výškovecké Bošacky, cattle pasture and orchard	Q, Sq	83

richest in species is dominated by two reserves in which the number of species exceeds 200 – the Machová NR (209 species) and the Čertoryje NNR (201 species), followed by two other localities in the southern part of the Bílé Karpaty – the Zahrady pod Hájem NNR (187 species) and the Jazevčí NNR (182 species). That such high numbers of species were recorded partly due to detailed research (including, for example, the use of Malaise traps) and may be also explained by high floristic diversity, habitat heterogeneity (e.g. the presence of spring fens, hedges and forest margins), and the large size of these localities. In the northern part of the Bílé Karpaty, the highest number of species was recorded in the Jalovcová stráž NR (125 species). In Moravia, only two well-known rocky steppe reserves – the Rokytenské slepence rocks near Moravský Krumlov (258 species; BRYJA *et al.* 2002, MALENOVSKÝ *et al.* 2011) and the Svatý kopeček NR near Mikulov (257 species, BRYJA & KMENT 2006b) – are known for higher numbers of Heteroptera species recorded than the most diverse sites in the Bílé Karpaty PLA.

Considering the high biodiversity of the invertebrate fauna of the Bílé Karpaty PLA from a habitat point of view, four major habitat types may be recognized in general terms: i) species-rich grasslands (meadows and pastures), ii) spring fens, iii) small streams, and iv) natural deciduous forests (KMENT *et al.* 2012, MALENOVSKÝ *et al.* 2012). For Heteroptera, the species-rich grasslands are of crucial importance, as they harbour many rare and threatened species. Among the species characteristic of species-rich meadows in the Bílé Karpaty, *Criocoris nigripes*, *Deraeocoris morio*, *Halticus pusillus*,

Heterocapillus tigripes, *Orthocephalus brevis*, and *Placochilus seladonicus* may be mentioned, while *Lopus decolor*, *Macrotylus paykullii*, *Megalocoleus molliculus*, *Orthocephalus coriaceus*, and *Systellonotus triguttatus* are characteristic of pastures, although at least some of these species may occur in both types of grassland communities, i.e. meadows and pastures (e.g. *Heterocapillus tigripes* and *Orthocephalus brevis*). The landscape of the Bílé Karpaty PLA is typically a mix of species-rich grasslands with numerous solitary trees and shrubs, hedges, forest margins and spring fens, which all substantially increase the local biodiversity. Among the heteropteran species characteristic of forest and road margins, especially notable is *Acompus rufipes* feeding on *Valeriana* spp. The numerous small spring fens scattered in the grasslands (including xerothermic sites) host a characteristic fauna of Heteroptera including e.g. *Cymus* spp., *Europiela alpina*, *Tytthus pygmaeus*, and the semi-aquatic *Hebrus pusillus* and *H. ruficeps*. Small streams are colonized in the Bílé Karpaty PLA only by *Velia caprai*, and to a lesser extent also by *V. saulii* and *Gerris gibbifer*. The undergrowth of deciduous forests generally harbours far fewer species of Heteroptera compared with open grasslands, but several of them are highly characteristic of the region as well, e.g. *Temnostethus pusillus*, *Dicyphus hyalinipennis*, *Macrolophus rubi*, *Metatropis rufescens*, and *Elasmostethus minor*.

In contrast, the geology and geomorphology of the Bílé Karpaty PLA exclude the presence of several other habitat types, such as peat-bogs, aeolian sands, floodplain ecosystems, and others, so the specialized species typical of these habitats are absent or very rare in the area. Despite the rather warm climate of the Bílé Karpaty, the lack of rock outcrops means an absence of rocky steppes on exposed slopes, and many species typical of these habitats that occur elsewhere in Moravia are absent from the area (some of them, however, occur on limestone outcrops in the Slovak part of the Bílé Karpaty Mts., e.g. *Chlamydatus evanescens* (Boheman, 1852), *Emblethis verbasci* (Fabricius, 1803), *Phytocoris ustulatus* Herrich-Schaeffer, 1835, and *Sciocoris cursitans* (Fabricius, 1794); ROHÁČOVÁ 1992) or are very rare and restricted to artificial sites such as abandoned stone quarries in the central part of the Bílé Karpaty PLA (e.g. *Heterogaster artemisiae* and *Holcostethus sphacelatus* in the Skalka quarry near Starý Hrozenkov). The base-rich geological substrates also prevent the development of acidophilous habitats (peat-bogs, heathlands) and species of Heteroptera specialized for acidophilous vegetation are very rare or absent as well (e.g. *Orthotylus ericetorum*, *Pachybrachius luridus*, *Rhopalus maculatus*, and *Stenodema virens*). The scarcity of larger bodies of water is also a major limiting factor for the communities of aquatic and semi-aquatic Heteroptera.

Despite the lack of typical “steppe” habitats, the warm character of the Bílé Karpaty mountains facilitates the existence of many thermophilous species, which reach higher altitudes here than is usual in other mountain ranges in the Czech Republic (as is also evident, for example, in the flora, which lack a well-defined montane element, the oreophyticum; KONVIČKA *et al.* 2012). The most xerothermophilous species are concentrated particularly in the south-western margin of the area: the Žerotín NM (*Icodema infuscata*, *Neottiglossa leporina*, *Phytocoris insignis*, *Raglius confusus*, *Rhaphigaster nebulosa*, *Rhynocoris iracundus*), the Zahrady pod Hájem NNR (*Berytinus signoreti*, *B. striola*, *Catoplatus horvathi*, *Odontotarsus purpureolineatus*, *Omphalonotus*

Table 3. The most frequently recorded Heteroptera species in the Bílé Karpaty PLA.

Terrestrial Heteroptera	No. of records
<i>Lygus pratensis</i> (Linnaeus, 1758)	256
<i>Lygus rugulipennis</i> Poppius, 1911	196
<i>Nabis pseudoferus</i> Remane, 1949	186
<i>Dolycoris baccarum</i> (Linnaeus, 1758)	177
<i>Chlamydatus pulicarius</i> (Fallén, 1807)	167
<i>Spilostethus saxatilis</i> (Scopoli, 1763)	167
<i>Plagiognathus chrysanthemi</i> (Wolff, 1804)	159
<i>Trigonotylus caelestialium</i> (Kirkaldy, 1902)	154
<i>Aelia acuminata</i> (Linnaeus, 1758)	153
<i>Notostira erratica</i> (Linnaeus, 1758)	150
<i>Adelphocoris lineolatus</i> (Goeze, 1778)	145
<i>Stenodema calcarata</i> (Fallén, 1807)	135
<i>Carpocoris purpureipennis</i> (De Geer, 1773)	133
<i>Rhopalus parumpunctatus</i> Schilling, 1829	132
<i>Stenodema laevigata</i> (Linnaeus, 1758)	128
<i>Adelphocoris seticornis</i> (Fabricius, 1775)	125
<i>Anthocoris nemorum</i> (Linnaeus, 1761)	116
<i>Nabis rugosus</i> (Linnaeus, 1758)	114
<i>Myrmus miriformis</i> (Fallén, 1807)	103
<i>Orthops kalmii</i> (Linnaeus, 1758)	103
<i>Leptopterna dolabrata</i> (Linnaeus, 1758)	102
<i>Charagochilus gyllenhalii</i> (Fallén, 1807)	101
<i>Megaloceroea relicticornis</i> (Geoffroy, 1785)	100
Aquatic and semi-aquatic Heteroptera	
<i>Gerris lacustris</i> (Linnaeus, 1758)	40
<i>Gerris gibbifer</i> Schummel, 1832	36
<i>Velia caprai</i> Tamanini, 1947	23

quadriguttatus), and some neighbouring localities. However, certain other less demanding xerothermophilous species even penetrate into the central and northern parts of the Bílé Karpaty PLA: Vyškovecké Bošáčky (ca. 550 m) – *Oxycarenus pallens*, *Tingis auriculata*; the Skalka quarry (550–580 m) – *Heterogaster artemisiae*, *Holcostethus sphacelatus*, *Phymata crassipes*, *Syromastes rhombeus*; the Pod Hřibovňou NM (550–640 m) – *Brachycoleus decolor*; the Jalovcová stráň NR (580–650 m) – *Adelphocoris vandalicus*, *Copium clavicorne*, *Coptosoma scutellatum*, *Heterocapillus tigrisipes*, *Phymata crassipes*; the Kaňoury NM (610–660 m) – *Coptosoma scutellatum*; the Ploščiny NR (670–739 m) – *Adelphocoris vandalicus*. In these localities, thermophilous species often occur together with boreo-montane species, such as *Nithecus jacobaeae* or *Lygus wagneri*. Mountain species are mostly restricted to the higher altitudes of the northern and central areas of the Bílé Karpaty (*Grypocoris sexguttatus*, *Lygus wagneri*, *Mecomma ambulans*, *Nithecus jacobaeae*, *Pinalitus atomarius*, and *Stenodema holsata*). In its southern part, boreo-montane elements occur almost exclusively on Mt. Velká Javořina (970 m a.s.l.) which holds true e.g. for *Calocoris alpestris*, *Grypocoris sexguttatus*, *Lygus wagneri*, *Mecomma ambulans*, *Nithecus*

jacobaeae, *Phytocoris intricatus*, and *Stenodema holsata*. The rare occurrence of *Lygus wagneri*, a montane species, in xerothermic localities in the south of the Bílé Karpaty (Žerotín NM, Hrubá Vrbka) appears quite exceptional. The distribution of selected thermophilous and boreo-montane species in the area is mapped in Fig. 1.

An analysis of the available records allows an estimate to be made of the numbers of the most common species of true bugs in the fauna of the Bílé Karpaty PLA. Altogether 23 species are represented in the material examined by 100 or more records, the most common species being *Lygus pratensis* with 256 records. The most common species are mostly euryecious, ubiquitous, polyphagous phytophages (*Lygus* spp., *Dolycoris baccarum*, etc.), specialized grass-feeders (*Trigonotylus caelestialium*, *Aelia acuminata*, *Notostira erratica*, *Stenodema calcarata*, *S. laevigata*, *Leptopterna dolabrata*, *Myrmus miriformis*, and *Megaloceroea recticornis*) or non-specialized predators (*Nabis pseudoferus*, *N. rugosus*, and *Anthocoris nemorum*) (see Table 3). The only exceptions are *Orthops kalmii* which is oligophagous on Apiaceae, *Charagochilus gyllenhalii* bound to *Galium*, and *Spilostethus saxatilis* which is the only species of the most common ones that seems to prefer well-preserved species-rich grasslands and is quite rare in disturbed habitats. The 22 most common terrestrial species attract a total of 3201 records, i.e. nearly 30% of all heteropteran species records from the Bílé Karpaty PLA.

A scarcity of larger aquatic habitats means that the aquatic and semi-aquatic bug species are much less-well represented in the Bílé Karpaty PLA compared to the terrestrial fauna. Although the 33 species recorded account for 52.4% of the Czech water bug fauna, the number of records of individual species is low and some of them have not been recorded in recent field surveys. The most common water bugs collected in the Bílé Karpaty PLA are semi-aquatic species: the euryecious *Gerris lacustris* with 40 records; *G. gibbifer*, an inhabitant of various kinds of puddle, with 36 records; and *V. caprai*, living in streams, with 23 records (see Table 3).

In contrast, 88 species (17.6%) have been recorded in the Bílé Karpaty only once, 43 species (8.6%) twice, and 41 species (8.2%) were found just three times. These 172 rare species (34.4%) are thus represented by only 297 records (2.75%).

Three species are recorded here for the first time for the Czech Republic: *Charagochilus spiralifer*, *Heterocordylus cytisi* (both Miridae), and *Dysepicritus rufescens* (Anthocoridae). *Heterocordylus cytisi* is also the first record for the whole of central Europe. Four additional species are first records for Moravia (i.e. they were

Fig. 1. Distribution of selected thermophilous (full symbols) and mountain species (empty symbols) in the Bílé Karpaty PLA and BR: Starý Hrozenkov, Skalka quarry is a single locality of *Heterogaster artemisiae* Schilling, 1829 and *Holcostethus sphaclatus* (Fabricius, 1794); Velká nad Veličkou, Zahrady pod Hájem NNR is a single locality of *Berytinus striola* (Ferrari, 1874), *Catoplatus horvathi* (Puton, 1878), *Odontotarsus purpureolineatus* (Rossi, 1790), and *Omphalonotus quadriguttatus* (Kirschbaum, 1856); Radějov, Žerotín NR is a single locality of *Icodema infuscata* (Fieber, 1861), *Neottiglossa leporina* (Herrich-Schaeffer, 1830), *Phytocoris insignis* Reuter, 1876, *Raglius confusus* (Reuter, 1886), *Rhaphigaster nebulosa* (Poda, 1761), and *Rhynocoris iracundus* (Poda, 1761); Strání, Javorina NNR is a single locality of *Calocoris alpestris* (Meyer-Dür, 1843) and *Phytocoris intricatus* Flor, 1861.

True bugs (Hemiptera: Heteroptera)

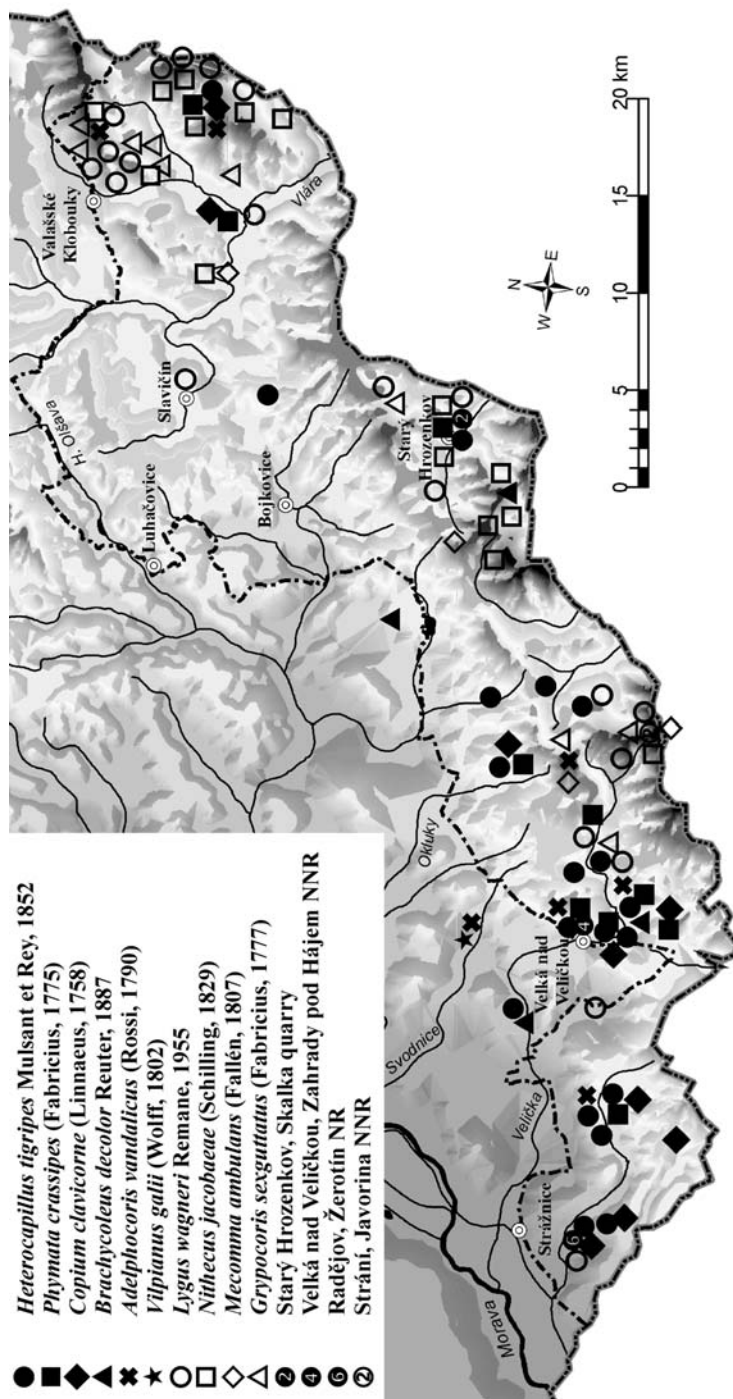


Table 4. Representation of zoogeographical elements in the fauna of the Bílé Karpaty PLA.

FAUNISTIC ELEMENT	No. of species	% of species	No. of species	% of species
Cosmopolitan	1	0.2	100	20.0
Holarctic	39	7.8		
Holopalaearctic	59	11.8		
Holopalaearctic + Afrotropical	1	0.2		
Eurosiberian	116	23.2	163	32.5
Eurosiberian + Central Asiatic	35	7.0		
Eurosiberian + Holomediterranean	1	0.2		
South Eurosiberian	10	2.0		
South Eurosiberian + Central Asiatic	1	0.2		
West Palaearctic	38	7.6	108	21.6
West Palaearctic + Afrotropical	1	0.2		
West Eurosiberian	64	12.8		
West Eurosiberian + Central Asiatic	5	1.0		
European	55	11.0	70	14.0
Atlantic	1	0.2		
European + Central Asiatic	2	0.4		
European + Holomediterranean	7	1.4		
European + Ponto-Mediterranean	1	0.2		
Central European	3	0.6		
East European-Kazakh	1	0.2		
Balkan-Pannonian	2	0.4	57	11.4
Holomediterranean	13	2.6		
Holomediterranean + Central Asiatic	15	3.0		
Holomediterranean + South Eurosiberian	1	0.2		
North Mediterranean	19	3.8		
North- and West-Mediterranean	2	0.4		
Ponto-Mediterranean	4	0.8		
Ponto-Mediterranean + Central Asiatic	1	0.2		
West Mediterranean (alien)	1	0.2	3	0.6
East Palaearctic (alien)	1	0.2		
Nearctic (alien)	1	0.2		

previously known in the Czech Republic only from Bohemia): *Acalypta platycheila* (Tingidae), *Phytocoris* (*Phytocoris*) *hirsutulus* (Miridae), *Loricula* (*Loricula*) *ruficeps* (Microphysidae), and *Elatophilus* (*Elatophilus*) *nigricornis* (Anthocoridae).

Altogether 62 true bug species (12.4%) recorded in the Bílé Karpaty PLA appear in the Red List of threatened invertebrates of the Czech Republic (KMENT & VILÍMOVÁ 2005). One of them, *Megalotomus junceus*, was once classified as extinct in the country (KMENT & VILÍMOVÁ 2005), but was rediscovered shortly afterwards at a single locality in the Bílé Karpaty PLA and thus should be now considered critically endangered. Four other species are classified as critically endangered (*Agramma confusum*, *Tropidothorax leucopterus*, *Coriomeris scabricornis*, and *Chlorochroa juniperina*); nine species are considered endangered (*Gerris asper*, *Macrotylus quadrilineatus*, *Tytthus pygmaeus*,

Table 5. Number of species collected with Malaise traps at selected localities within the Bílé Karpaty PLA (year of sampling).

Locality number	Locality (year of sampling)	No. of species
14	Petrůvka, U Petrůvky NM (2008)	78
64	Petrůvka, Kladenka brook valley (2008)	47
87	Sídonie, Sídonie NR (2010)	21
93	Svatý Štěpán, Chladný vrch NM (2010)	17
164	Žitková, Hutě NR (2007)	100
188	Radějov, Žerotín NM (2008)	99
204	Kněždub, Čertoryje NNR, Radějovka brook valley (2010)	53
218	Radějov, Mandát brook valley below Kútky NR (2008)	46
225	Velká nad Veličkou, Zahrady pod Hájem NNR (2009)	89
232	Javorník, Jazevčí NNR (2009)	113
241	Javorník, Jazevčí NNR, left-side tributary of Velička river (2009)	79
	<i>Javorník, Jazevčí NNR (total)</i>	135
246	Hryzlácké Mlýny, valley of right-side tributary of Velička (2009)	65
256	Javorník, Machová NR, Rybnický potok brook E of Machová (2007)	90
259	Javorník, Machová NR (2007)	113
259	Javorník, Machová NR (2010)	56
260	Javorník, Machová NR, Rybnický potok brook N of Machová (2010)	68
	<i>Javorník, Machová NR (total)</i>	187

Peritrechus gracilicornis, *Scolopostethus puberulus*, *Berytinus striola*, *Ceraleptus gracilicornis*, *Sehirus morio*, and *Holcostethus sphacelatus*); thirty-one species as vulnerable; and seventeen species are categorised as near-threatened.

Twenty-one species previously recorded from the current Bílé Karpaty PLA in literature or documented here only from specimens from the Moravian Museum, Brno (collected in the 1970s and 1980s) were not recorded again in 1998–2011. However, most of these species are generally rare and it is highly probable that they still occur in the Bílé Karpaty PLA. Two aquatic species, *Corixa punctata* and *Cymatia coleoptrata*, seem to have disappeared after the disappearance of their original habitat, but they may still survive in other suitable places, although aquatic habitats with rich aquatic vegetation and an absence of fish are rare in the Bílé Karpaty PLA. A revitalisation of some aquatic habitats may possibly increase the biodiversity of aquatic Heteroptera in the area in the future. The only two species that have probably become locally extinct in the Bílé Karpaty PLA are *Coriomeris scabricornis*, which evidently withdrew from most of its former localities throughout the Czech Republic, and *Adelphocoris reicheli* which has not been collected in Moravia since 1970. For Heteroptera, no case of a species extinction or decline has been documented in connection with recent management activities (cutting, grazing) in species-rich grasslands, although the butterflies have suffered (see KONVIČKA *et al.* 2008).

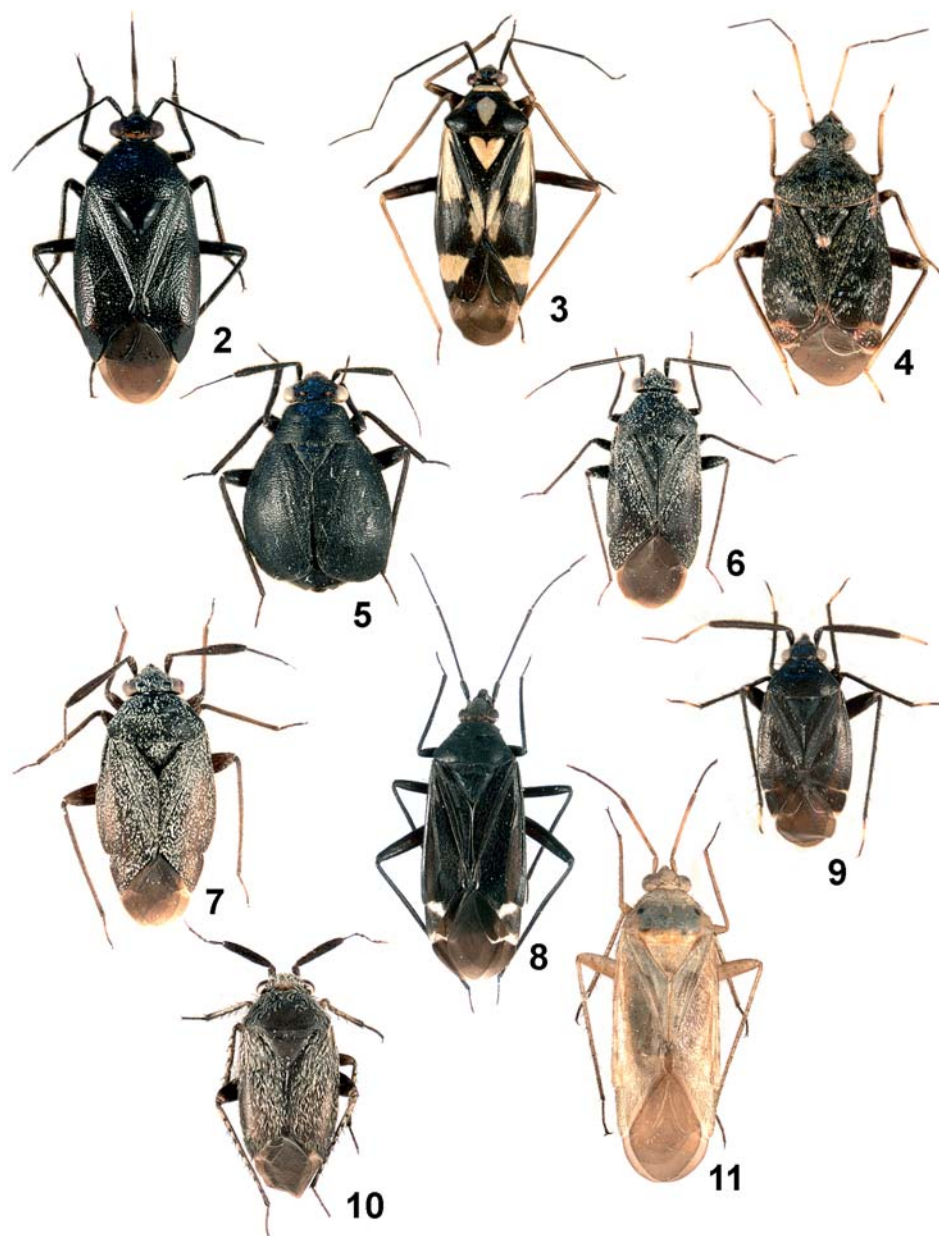
A zoogeographical analysis of the recorded species is given in Table 4. The majority of the species belong to various widely distributed faunistic elements: 100 species (20%) have a Holopalaeartic or Holarctic distribution (including cosmopolitan species), 163

species (32.5%) are Eurosiberian, and 108 species (21.6%) are West Palaearctic or West Eurosiberian. Among species with more restricted distributions, European species (70 species, 14.0%) prevail, three rare central European species, *Physatocheila harwoodi*, *Phylus plagiatus*, and *Phytocoris hirsutulus*, being the most remarkable among them. The Mediterranean faunistic element is represented by 57 species (11.4%), mostly thermophilous, which concentrate at xerothermic localities such as Žerotín hill in the southern part of the Bílé Karpaty. The overall representation of the Mediterranean species in the Bílé Karpaty PLA is lower than in steppe habitats in the Moravian Pannonicum (e.g. Svatý kopeček NR – 31% Mediterranean species among all Heteroptera recorded, Rokytenské slepence rocks – 26.7%; BRYJA & KMENT 2006b, BRYJA *et al.* 2002). Among the Mediterranean species present in the Bílé Karpaty PLA, several are of major zoogeographical importance, as they reach their northernmost distribution limits here: *Harpocera hellenica*, *Heterocapillus tigripes*, *Heterocordylus cytisi*, *Icodema infuscata*, *Psallus asthenicus*, *P. cruentatus*, *Megalotomus junceus*, and *Vilpianus galii*. The Ponto-Mediterranean plant bug *Macrotylus quadrilineatus* extends northwards to the Carpathians and the Alps and represents the only “Carpathian” element in the fauna of the Bílé Karpaty.

In addition to our employing the usual collecting methods for assessing heteropteran species diversity, especially sweep-netting, beating vegetation, sifting litter, individual collecting, and pitfall traps, the staff of the National Museum, Praha, installed Malaise traps in selected habitats, allowing us to examine a further substantial body of material (2194 records, 5,461 specimens). As Malaise traps are only rarely used for faunistic research devoted to Heteroptera, we were quite surprised at the high diversity of species taken by this method in open habitats (for numbers of species collected in particular localities, see Table 5). Thirty-five of the species in this paper were collected by means of Malaise traps only, including a number of remarkable species: *Charagochilus spiralis* and *Dysepicritus rufescens* (both first records in the Czech Republic), *Elatophilus nigricornis*, *Loricula ruficeps*, and *Phytocoris hirsutulus* (all first records for Moravia), *Harpocera hellenica* and *Icodema infuscata* (both very rare species occurring in the Bílé Karpaty Mts. at the northern edge of their distribution ranges), as well as cryptically living species generally difficult to collect by the usual methods (e.g. the corticolous *Isometopus intrusus*, *Loricula* spp., *Dysepicritus rufescens*, *Elatophilus nigricornis*, semiedafic *Ceratocombus coleoptratus*, and *Xylocoris galactinus*, which inhabits decaying organic matter). However, the Malaise traps failed to collect several species common in the habitats under study, especially those with a prevalence of flightless specimens (e.g. *Myrmus miriformis*). Based on this experience we can recommend Malaise traps as an excellent supplementary method for long-term biodiversity inventories of Heteroptera. Pitfall traps were shown to be less effective in the Bílé Karpaty PLA as only two species, *Himacerus boops* and *Trapezonotus anorus*, were collected solely by this method. The pitfall traps, however, provided most of the examined specimens of certain other species (e.g. *Acalypta marginata* and *Campylosteira verna*).

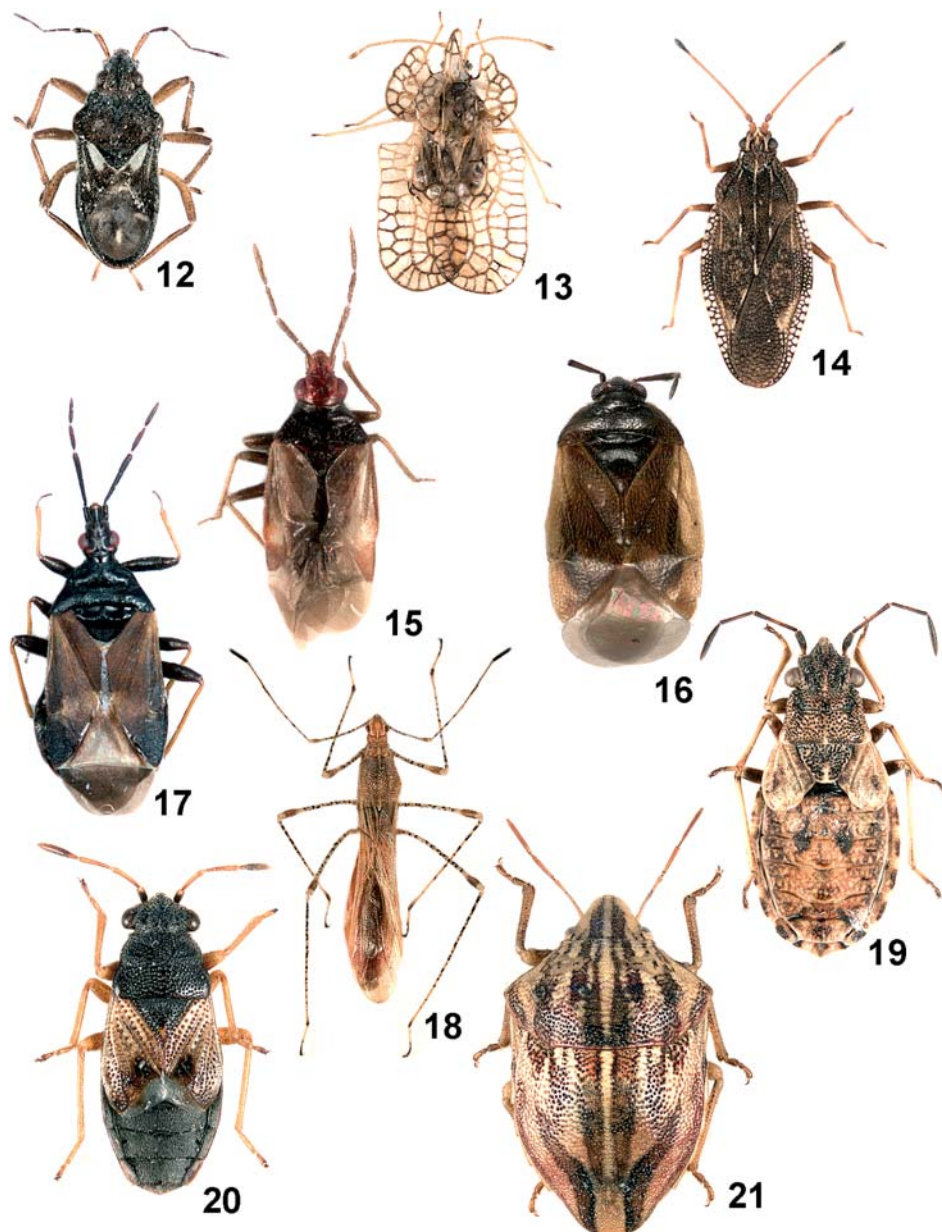
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Figs 2–11. Habitus of some Heteroptera recorded in Bílé Karpaty Protected Landscape Area and Biosphere Reserve. 2 – *Deraeocoris* (*D.*) *morio* (Boheman) (4.9 mm); 3 – *Grypocoris* (*Lophyromiris*) *sexguttatus* (Fabricius) (7.4 mm); 4 – *Charagochilus* (*Ch.*) *spiralifer* Kerzhner (3.9 mm); 5 – *Orthocephalus* *brevis* (Panzer) female (4.8 mm); 6 – *Heterocordylus* (*H.*) *cytisi* Josifov, male (4.4 mm); 7 – *Heterocordylus* (*H.*) *cytisi* Josifov, female (4.6 mm); 8 – *Macrotylus* (*M.*) *quadrilineatus* (Schrank) (4.8 mm); 9 – *Criocoris* *nigripes* Fieber (2.8 mm); 10 – *Heterocapillus* *tigripes* (Mulsant et Rey) (3.2 mm); 11 – *Placochilus* *seladonicus* (Fallén) (5.7 mm).

True bugs (Hemiptera: Heteroptera)



Figs 12–21. Habitus of some Heteroptera recorded in Bilé Karpaty Protected Landscape Area and Biosphere Reserve. 12 – *Hebrus (H.) pusillus* (Fallén) (1.9 mm); 13 – *Galeatus sinuatus* (Herrich-Schaeffer) (3.3 mm); 14 – *Physatocheila harwoodi* China (3.1 mm); 15 – *Loricula (L.) ruficeps* (Reuter), male (1.4 mm); 16 – *Dysepicritus rufescens* (Costa) (2.2 mm); 17 – *Elatophilus (E.) nigricornis* (Zetterstedt) (3.2 mm); 18 – *Metatropis rufescens* (Herrich-Schaeffer) (7.6 mm); 19 – *Nithecus jacobaeae* (Schilling) (5.3 mm); 20 – *Acompus rufipes* (Wolff) (3.6 mm); 21 – *Odontotarsus purpureolineatus* (Rossi) (9.5 mm).

Souhrn

Plošnice (Hemiptera: Heteroptera) Chráněné krajinné oblasti a biosférické rezervace Bílé Karpaty.

V letech 1998–2010 byl v Chráněné krajinné oblasti a biosférické rezervaci Bílé Karpaty proveden komplexní faunistický průzkum ploštic (Hemiptera: Heteroptera) za použití několika různých metod kvalitativních a kvantitativních sběrů. Před rokem 1998 bylo z moravské stranky Bílých Karpat (tak, jak jsou chápány v této práci) známo pouze 98 druhů ploštic. Nově shromážděný materiál představuje 10,732 faunistických údajů založených na identifikaci cca 35,984 jedinců ploštic. Dokromady bylo v Bílých Karpatech nalezeno 501 druhů, což představuje 58 % fauny ploštic známé z České republiky. Ze zkoumaných biotopů jsou pro plošnice nejvýznamnější druhově bohaté trávníky (louky a pastviny), na které je vázáno množství vzácných a ohrožených druhů, například *Criocoris nigripes* Fieber, 1861, *Deraeocoris morio* (Boheman, 1852), *Halticus pusillus* (Herrich-Schaeffer, 1835), *Heterocapillus tigrisipes* Mulsant et Rey, 1852, *Lopus decolor* (Fallén, 1807), *Macrotylus paykullii* (Fallén, 1807), *Megalocoleus molliculus* (Fallén, 1807), *Orthocephalus brevis* (Panzer, 1798), *Orthocephalus coriaceus* (Fabricius, 1777), *Placochilus seladonicus* (Fallén, 1807) a *Systellonotus triguttatus* (Linnaeus, 1767). Ostatní významné biotopy zahrnují pásy křovin a lesní pláště, prameniště a přirozené listnaté lesy. Tři druhy jsou v této práci hlášeny poprvé pro území České republiky: *Charagochilus spiralifer* Kerzhner, 1988, *Heterocordylus cytisi* Josifov, 1958 (Miridae) a *Dysepicritus rufescens* (A. Costa, 1847) (Anthocoridae); v případě druhu *H. cytisi* se jedná o první nález v celé střední Evropě. Čtyři další druhy jsou hlášeny poprvé pro území Moravy: *Acalypta platycheila* (Fieber, 1844) (Tingidae), *Phytocoris (Phytocoris) hirsutulus* Flor, 1861 (Miridae), *Loricula (Loricula) ruficeps* (Reuter, 1884) (Microphysidae) a *Elatophilus (Elatophilus) nigricornis* (Zetterstedt, 1838) (Anthocoridae). Navíc je druh *Charagochilus weberi* Wagner, 1953 vyloučen z fauny Slovenska, zatímco *Ch. spiralifer* je novým druhem pro Slovensko. Celkem 62 druhů ploštic (12 %) nalezených v CHKO Bílé Karpaty je zařazeno do červeného seznamu ohrožených druhů bezobratlých České republiky. Z nich *Megalotomus junceus* (Scopoli, 1763) byl donedávna považován za vyhynulý, než byl během průzkumu v Bílých Karpatech znovuobjeven. Čtyři další druhy jsou hodnoceny jako kriticky ohrožené: *Agramma confusum* (Puton, 1879), *Tropidothorax leucopterus* (Goeze, 1778), *Coriomeris scabricornis* (Panzer, 1809) a *Chlorochroa juniperina* (Linnaeus, 1758), devět jako ohrožené: *Gerris asper* (Fieber, 1860), *Macrotylus quadrilineatus* (Schränk, 1785), *Tythus pygmaeus* (Zetterstedt, 1838), *Peritrechus gracilicornis* Puton, 1877, *Scolopostethus puberulus* Horváth, 1887, *Berytinus striola* (Ferrari, 1874), *Ceraleptus gracilicornis* (Herrich-Schaeffer, 1835), *Sehirus morio* (Linnaeus, 1761) a *Holcostethus sphaecelatus* (Fabricius, 1794), 31 jako zranitelné a 17 jako téměř ohrožené. Většina druhů ploštic vyskytujících se v Bílých Karpatech patří mezi faunistické elementy s širokými areály rozšíření: 100 druhů (20 %) má holopalearktické nebo holarktické rozšíření, 163 druhů (33 %) je eurosibiřských, 108 druhů (22 %) západopalearktických nebo západoeurosibiřských, 70 druhů (14 %) evropských a 57 druhů (11 %) je mediteránního původu. Mezi středomošskými druhy je několik zoogeograficky velmi významných prvků, které dosahují v oblasti Bílých Karpat své severní hranice rozšíření: *Harpocera hellenica* Reuter, 1876, *Heterocapillus tigrisipes*, *Heterocordylus cytisi*, *Icodema infusata* (Fieber, 1861), *Psallus asthenicus* Seidenstücker, 1966, *P. cruentatus* (Mulsant et Rey, 1852), *Megalotomus junceus* a *Vilpianus galii* (Wolff, 1802). Rovněž je diskutována užitečnost Malaisého pastí jako metody pro sledování biodiverzity ploštic v rámci inventarizačních průzkumů.

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Adephagan and hydrophiloid water beetles (Coleoptera: Gyrinidae, Haliplidae, Noteridae, Dytiscidae, Helophoridae, and Hydrophilidae) of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic)

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TRÁVNÍČEK D., HÁJEK J., STRAKA M. & SYCHRA J. 2012: Adephagan and hydrophiloid water beetles (Coleoptera: Gyrinidae, Haliplidae, Noteridae, Dytiscidae, Helophoridae, and Hydrophilidae) of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic). In: MALENOVSKÝ I., KMENT P. & KONVIČKA O. (eds.): Species inventories of selected insect groups in the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic). *Acta Musei Moraviae, Scientiae biologicae* (Brno) **96(2)** (2011): 629–665. – A total of 110 species of adephagan and hydrophiloid water beetles (Gyrinidae: 3 spp., Haliplidae: 6 spp., Noteridae: 2 spp., Dytiscidae: 45 spp., Helophoridae: 11 spp., and Hydrophilidae: 43 spp.) were recorded at 114 sites in the Bílé Karpaty Protected Landscape Area (south-eastern Moravia, Czech Republic). Most of the records come from surveys carried out in 1994–2010, with some additional data based on collection specimens. A complete list of all records from the area is supplemented by brief notes on the ecology and conservation status of each species. Three of the recorded species are classified as critically endangered (*Hydrophilus piceus* (Linnaeus, 1758), *Hygrotus parallellogrammus* (Ahrens, 1812) and *Laccobius simulatrix* Orchymont, 1932), four are regarded as endangered (*Gyrinus distinctus* Aubé, 1838, *Helochares lividus* (Forster, 1771), *Hydrovatus cuspidatus* (Kunze, 1818) and *Laccobius obscuratus* Rottenberg, 1874), eight as vulnerable (*Berosus frontifoveatus* Kuwert, 1888, *Cercyon nigriceps* (Marsham, 1802), *Deronectes latus* (Stephens, 1829), *Dytiscus circumflexus* Fabricius, 1801, *Hygrotus nigrolineatus* (Steven, 1808), *Helophorus redtenbacheri* Kuwert, 1885, *Laccobius gracilis* Motschulsky, 1855 and *Laccophilus poecilus* Klug, 1834) and four as near-threatened (*Enochrus fuscipennis* (Thomson, 1884), *Graptodytes bilineatus* (Sturm, 1835), *Helophorus arvernensis* Mulsant, 1846, and *Limnoxenus niger* (Gmelin, 1790)) according to the Red List of threatened species in the Czech Republic. These results show that the area harbours a rich water beetle fauna and may provide refuges for rare and endangered species.

Key words. Aquatic beetles, Adephaga, Hydrophiloidea, faunistics, biogeography, threatened species, aquatic habitats, White Carpathians, Moravia, Czech Republic

Introduction

This paper addresses six families of water beetles that inhabit all kinds of wetland habitats in the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (hereafter abbreviated to Bílé Karpaty PLA): the Gyrinidae, Haliplidae, Noteridae, Dytiscidae, Helophoridae, and Hydrophilidae.

The Gyrinidae (whirligig beetles) comprise more than 900 species with a worldwide distribution (FRANCISCOLO 1979). Both larvae and adults are predaceous and they live in various types of running or standing water habitats. The body of the adults is usually oval and dorsoventrally flattened; central European species reach 3–8 mm in size. The antennae are shortened, forming a compact club. The eyes are adapted for a life on the surface of the water. They are divided into a ventral part, which enables underwater vision, and a dorsal part, which is used to see above the surface. Eleven species have been recorded from the Czech Republic; five of them are regarded as extinct here (BOUKAL *et al.* 2007).

The Haliplidae (crawling water beetles) include over 200 species and occur in all zoogeographical regions (VONDEL 2005). Both larvae and adults feed chiefly on algae. The size of the adults varies between 1.5 and 5.0 mm, and they have quite a uniform appearance, with a convex body and a yellow-and-black colour pattern. The adults also possess characteristically enlarged metacoxal plates, under which they store a bubble of air obtained by breaking the surface film with the tip of the abdomen, giving them a reservoir of oxygen underwater. Eighteen species have been recorded from the Czech Republic; one of them is regarded as extinct in the country (BOUKAL *et al.* 2007).

The Noteridae (burrowing water beetles) contain about 250 species with a worldwide distribution (NILSSON 2005). Both adults and larvae are largely predaceous, inhabiting various types of standing water. They prefer habitats with vegetation and a muddy bottom into which the adults can burrow using their modified forelegs. The adults of central European species are droplet-shaped and reach 3.5–5.0 mm in size. Two species are known from the Czech Republic (BOUKAL *et al.* 2007).

The Dytiscidae (predaceous diving beetles) make up a large family of about 4,000 species occurring all over the world (NILSSON 2001). Both larvae and adults of most species inhabit various types of standing or flowing water, but the family also includes blind species living in springs and artesian wells and species inhabiting subterranean cave systems; a few species in tropical areas are even terrestrial. The streamlined body shape and flattened hind legs in the more derived groups are the main adaptations of the adults to an underwater life. The size of central European species ranges between 1.7 mm and 44 mm. Both larvae and adults are predaceous; the prey is appropriate to body size, from small crustacean and insect larvae to tadpoles and fish fry. At present, 132 species are known from the Czech Republic, 10 of them are regarded as extinct here (BOUKAL *et al.* 2007).

The family Helophoridae includes 192 species (HANSEN 1999, SHORT & HEBAUER 2006, SHORT & FIKÁČEK 2011) and its members occur mainly in the Palaearctic and Nearctic Regions. Most adults inhabit shallow standing waters but some species live out of water in the burrows of rodents on steppes, in wet moss in peat-bogs, and on wet, sandy-loamy shores of streams. The larvae live on the surface of wet soil and under stones. While the adults are saprophagous and feed mainly on plant debris, most of the larvae are predaceous, with only minor exceptions. The appearance of the adults is quite uniform; they reach 2–9 mm in size, have an elongated body with regular striae on the

elytra, and five longitudinal grooves on the pronotum. Twenty-eight species are known from the Czech Republic, seven of which are regarded as extinct in the country (BOUKAL *et al.* 2007).

The Hydrophilidae (water scavenger beetles) are distributed worldwide and nearly 3,000 species have been described (HANSEN 1999, SHORT & HEBAUER 2006, SHORT & FIKÁČEK 2011). They are represented by two subfamilies in central Europe: the Hydrophilinae and the Sphaeridiinae. Both the habitus and the body size of adults are fairly variable. The smallest central European species are 1 mm long while the largest one, *Hydrophilus piceus*, may reach 50 mm. Most adults of the Hydrophilinae live in the littoral zone and along the shores of standing waters. Only a few species inhabit springs or live on the shores of flowing water. The Sphaeridiinae occur mainly in various decaying matter of organic origin. In most hydrophilid species, the larvae inhabit the same habitats as the adults, but while the adults feed on plant debris and other dead organic matter, the larvae are predatory and their prey includes various invertebrates, annelids and snails. Seventy-eight species are known to occur in the Czech Republic; eight of them are regarded as extinct here (BOUKAL *et al.* 2007, BOUKAL & BENEDIKT 2010).

More detailed treatments of all these families in terms of their morphology and biology may be found e.g. in BOUKAL *et al.* (2007) and HÁJEK (2007, 2009).

The Bílé Karpaty PLA was established to protect a unique landscape with an extraordinary richness of flora and fauna in the south-eastern part of the Czech Republic (Moravia), extending along the border with Slovakia. The area covers 715 km² at altitudes of 200–970 m, situated mostly in the White Carpathian [= Bílé Karpaty] Mts. A comprehensive overview of the area's natural history has been given e.g. by KUČA *et al.* (1992), MACKOVČIN & JATIOVÁ (2002), JONGEPIEROVÁ (2008), and KONVIČKA *et al.* (2011).

Water beetles were not thoroughly studied in the Bílé Karpaty PLA until recently. Only a few records occurred in the Catalogue of Water Beetles of the Czech Republic (BOUKAL *et al.* 2007). The first paper, centring upon on the water beetles inhabiting the stillwater habitats of the area, was published by TRÁVNÍČEK (2010a). The present study summarizes current knowledge and is based on this paper, as well as recent extensive surveys of running and standing waters in the Bílé Karpaty PLA, complemented by previously unpublished data extracted from personal and museum collections.

Material and methods

Most of the data in the paper are based on surveys carried out in the Bílé Karpaty PLA between 1994 and 2010. While D. Trávníček sampled largely standing-water habitats, such as slope spring areas, pools in wet meadows, ponds, pools/lakes in abandoned quarries and clay plants or sand pits, P. Komzák, M. Straka and S. Větríček inspected flowing waters in the area. Standard collecting methods, as described in BOUKAL *et al.* (2007), were employed. Finally, data provided by other entomologists active in the area were also added.

Many records by P. Komzák, M. Straka and S. Větríček were obtained as part of a standard monitoring programme in which a three-minute multihabitat sample is taken and fixed with formaldehyde and then processed in the lab (KOKEŠ & NĚMEJCOVÁ 2006). Unfortunately, the samples from this monitoring are stored for only a limited period of time or immediately discarded, and voucher specimens are usually not available. These records are abbreviated as NC below. All other specimens are deposited in the following collections, abbreviated as:

EEZC	.....	Eduard Ezer collection, Zlín
JSBC	.....	Jan Sychra collection, Brno
JSPC	.....	Jan Schneider collection, Prague
JSOC	.....	Jiří Stanovský collection, Ostrava
JVOC	.....	Jiří Vávra collection, Ostrava
KRSC	.....	Květoslav Rešl collection, Šumice
LKOC	.....	Luboš Koloničný collection, Ostrava
MJMZ	.....	Museum of South-eastern Moravia, Zlín (Dušan Trávníček collection)
MHBC	.....	Michal Horsák collection, Brno
MSHC	.....	Michal Straka collection, Hustopeče
NMPC	.....	National Museum, Prague (Jiří Hájek collection)
OKZC	.....	Ondřej Konvička collection, Zlín
PKBC	.....	Petr Komzák collection, Brno
TSHK	.....	Tomáš Staněk collection, Hradec Králové
TSOC	.....	Tomáš Sitek collection, Ostrava

The following additional abbreviations are also used in the text: NM – Nature Monument, NNR – National Nature Reserve, NR – Nature Reserve, PLA – Protected Landscape Area (all of these are the various categories and terms specified by the Czech system of legally protected natural areas); CR – critically endangered, EN – endangered, VU – vulnerable, NT – near-threatened (all are specified categories defined in the Red List of threatened invertebrates of the Czech Republic, *cf.* FARKAČ *et al.* 2005, updated by BOUKAL *et al.* 2007); spec. – specimen(s) without an indication of sex.

The system, nomenclature and the classification into conservation categories used in this paper follow BOUKAL *et al.* (2007).

List of collecting sites

The records come from the 114 localities listed below. Each entry in the list of localities is arranged as follows: number of locality, name of the nearest village/town, local name of the collecting site or name of a small-scale protected area (reserve) if appropriate, code (in parentheses) of the respective field in the faunistic and floristic grid mapping system of central Europe (EHRENDORFER & HAMANN 1965, PRUNER & MÍKA 1996, each basic field divided into 16 subfields, *cf.* KONVIČKA *et al.* 2011), GPS coordinates, altitude, and habitat (if this is not evident from the name of the site itself). Some locality labels of collection specimens did not contain all this data, typically GPS coordinates; certain entries are therefore limited to the name of the corresponding village/town and a basic grid map field. In some cases, a specification of the collecting method is mentioned at the end of the entry.

1. Petrůvka, pond on Petrůvka stream (6872d4), 49°07'01"N 17°48'55"E, 360 m a.s.l.
2. Petrůvka, Kladenka springs (6872d4), 49°06'11"N 17°49'17"E, 460 m a.s.l.
3. Slavičín, Lukšinka stream (6873c3), 49°06'19"N 17°52'17"E, 380 m a.s.l.
4. Nevšová (6873c3), abandoned swimming pool in village.
5. Vrbětice, Václavský potok stream (6873d3), 49°06'17"N 17°56'12"E, 340 m a.s.l.
6. Valašské Klobouky, Javorůvky NR (6874c1), spring fen.
7. Valašské Klobouky, nameless stream 600 m NW from Vrchy (6874c3), 49°07'27"N 18°02'05"E.
8. Brumov-Bylnice, Hložecký potok stream (6874c3), 49°06'07"N 18°00'02"E, 380 m a.s.l.
9. Brumov-Bylnice, Kloboucký potok stream (6874c3), 49°06'11"N 18°01'37"E, 338 m a.s.l.
10. Nedašova Lhota, Paseky (6874d1), 49°07'45"N 18°05'59"E, 550 m a.s.l.; sifting of dry cow excrements.
11. Nezdenice (6972).
12. Šumice (6972).
13. Rudice (6972a4).
14. Kladná-Žilín (6972b4), 49°04'49"N 17°48'01"E, 340 m a.s.l.; pond near forest edge.
15. Záhorovice, Kladenka stream (6972d1), 49°01'53"N 17°45'48"E, 245 m a.s.l.
16. Bojkovice, Koménka stream (6972d2), 49°01'52"N 17°48'20"E, 275 m a.s.l.
17. Nezdenice (6972d3), 49°00'35"N 17°45'20"E, 300 m a.s.l.; lake in quarry and its outflow.
18. Bojkovice, Koménka stream (6972d4), 49°01'11"N 17°48'03"E, 300 m a.s.l.
19. Slavičín (6973a1), 49°05'32"N 17°52'06"E, 370 m a.s.l.; pool in abandoned brick plant.
20. Slavičín (6973a1).
21. Pitín, Kolelač stream (6973a3), 49°03'27"N 17°51'41"E, 335 m a.s.l.
22. Vrbětice (6973b1), 49°06'02"N 17°56'18"E, 370 m a.s.l.; recently created pools.
23. Rokytice (6973b3), 49°03'49"N 17°55'15"E, 360 m a.s.l.; small neglected garden pool.
24. Rokytice, right tributary of Rokytěnka stream (6973b3), 49°03'25"N 17°55'18"E, 370 m a.s.l.
25. Štítná nad Vláří, Zelenský potok stream (6973b4), 49°03'14"N 17°58'23"E, 380 m a.s.l.
26. Popov, Zelenský potok stream (6973b4), 49°04'03"N 17°58'48"E, 325 m a.s.l.
27. Štítná nad Vláří (6973b4); pond.
28. Pitín, Olšava stream (6973c1), 49°01'41"N 17°52'32"E, 390 m a.s.l.
29. Bzová (6973c3), 48°59'59"N 17°51'29"E, 560 m a.s.l.; helocrene spring in quarry.
30. Brumov-Bylnice (6974a3).
31. Sidonie, Sidonie NR (6974a4), 49°02'49"N 18°03'29"E, 640 m a.s.l.; light trapping.
32. Svatý Štěpán, Vlára stream (6974c2), 49°02'12"N 18°03'03"E, 280 m a.s.l.
33. Sidonie, Vlára stream (6974c2), 49°02'14"N 18°03'02"E, 290 m a.s.l.
34. Suchov, Kazivec stream (7071d3), 48°54'16"N 17°36'51"E, 470 m a.s.l.
35. Suchov (7071d3), 48°54'06"N 17°35'32"E, 450 m a.s.l.; periodical pool near forest edge.
36. Horní Němčí, Drahy NR (7071d4), 48°55'16"N 17°38'29"E, 450 m a.s.l.; sheep pasture.
37. Horní Němčí, Okluky stream (7071d4), 48°55'11"N 17°37'48"E, 360 m a.s.l.
38. Horní Němčí, Uvezené NM (7071d4), 48°54'33"N 17°38'48"E, 500 m a.s.l.; pool.
39. Bystřice pod Lopeníkem (7072).
40. Lopeník (7072).
41. Bánov, Ordějov reservoir (7072a4), 320 m a.s.l.
42. Komňa, Bučník quarry (7072b1), 48°58'48"N 17°47'28"E; pool.
43. Komňa, Koménka stream (7072b2), 48°59'17"N 17°47'35"E, 391 m a.s.l.
44. Komňa, Lom Rasová NM (7072b2), 48°58'34"N 17°48'43"E, 540 m a.s.l.; pool in abandoned quarry.
45. Lopeník, Nivnička stream (7072b3), 48°57'17"N 17°46'48"E, 570 m a.s.l.; spring and stream.
46. Korytná, Lubná pond (7072c1), 317 m a.s.l.
47. Březová, Hradecký járek stream (7072c2), 48°56'07"N 17°43'06"E, 630 m a.s.l.; spring.
48. Březová, Kalábová NM (7072c2), 48°56'22"N 17°44'38"E, 520 m a.s.l.; meadow spring areas with tufa formation.
49. Strání, Klanečnice stream valley (7072c3); pool.
50. Strání, Hrnčárky NM (7072c3), 48°54'31"N 17°40'36"E, 450 m a.s.l.; spring fen.
51. Lopeník, Hrubý Mechnáč (7072d2), 48°56'33"N 17°47'54"E, 700 m a.s.l.; spring fen.

52. Žitková (7073).
53. Žitková (7073a2), 49°00'02"N 17°53'23"E, 620 m a.s.l.; pond in meadow near forest.
54. Žitková, Pod Žitkovským vrchem NR (7073a2), 48°59'09"N 17°52'53"E, 590 m a.s.l.; helocrene spring.
55. Starý Hrozenkov (7073a3).
56. Starý Hrozenkov, Krátkovský potok stream (7073a3), 48°57'39"N 17°52'16"E, 360 m a.s.l.
57. Žitková, Žitkovský potok stream (7073a4), 48°58'21"N 17°54'06"E, 380 m a.s.l.
58. Starý Hrozenkov, Drietomica stream (7073a4), 48°57'19"N 17°52'37"E, 360 m a.s.l.
59. Vyškovec (7073c1).
60. Petrov, Radějovka stream (7169b1), 48°52'43"N 17°16'47"E, 175 m a.s.l.
61. Sudoměřice, Sudoměřický potok stream (7169b3), 48°51'33"N 17°16'49"E, 205 m a.s.l.
62. Sudoměřice, Sudoměřický potok stream (7169b3), 48°51'39"N 17°15'52"E, 190 m a.s.l.
63. Sudoměřice, Sudoměřický potok stream valley (7169b3), 48°51'45"N 17°16'25"E, 200 m a.s.l.; pools.
64. Strážnice, Radějovka stream (7169b4), 48°52'46"N 17°19'12"E, 200 m a.s.l.
65. Radějov, Mandát stream (7169d2), 48°50'39"N 17°19'36"E, 260 m a.s.l.
66. Radějov, Sudoměřický potok stream (7169d2), 48°50'41"N 17°18'53"E, 252 m a.s.l.
67. Radějov, Mlýny reservoir (7169d2), 236 m a.s.l.
68. Radějov (7170); reservoir.
69. Tvarožná Lhota, Újezdský potok stream (7170a1), 48°52'43"N 17°22'02"E, 190 m a.s.l.
70. Kněždub, Kejda pond (7170a4), 48°52'41"N 17°24'35"E, 320 m a.s.l.
71. Tvarožná Lhota, Járkovec stream (7170a4), 48°51'41"N 17°23'52"E, 300 m a.s.l.
72. Tvarožná Lhota, Lučina (7170a4); 48°51'45"N 17°23'43"E, 240 m a.s.l.; pool near a reservoir.
73. Lipov, Kuželovský potok stream (7170b1), 48°53'53"N 17°26'18"E, 210 m a.s.l.
74. Hroznová Lhota, Velička stream (7170b1), 48°53'51"N 17°25'09"E, 195 m a.s.l.
75. Kněždub, Čertoryje NNR – Radějovka stream valley (7170b3), pools.
76. Hrubá Vrbka (7170b4).
77. Hrubá Vrbka, (7170b4), 48°52'17"N 17°28'45"E, 270 m a.s.l.; light trapping.
78. Radějov, Kútky NR (7170c1), 48°49'54"N 17°22'59"E, 380 m a.s.l.; helocrene spring.
79. Radějov, Kútky NR (7170c1), 48°49'44"N 17°23'14"E, 370 m a.s.l.; pond near forest edge.
80. Velká nad Veličkou, Zahrady pod Hájem NNR (7171a1), 48°53'05"N 17°31'54"E, 320 m a.s.l.; helocrene spring.
81. Velká nad Veličkou, right tributary of Velička stream (7171a1), 48°53'28"N 17°31'49"E, 280 m a.s.l.
82. Suchov, Kazivec stream (7171a2), 48°53'58"N 17°35'02"E, 410 m a.s.l.
83. Javorník (7171a3); pools in clay plant.
84. Javorník, Velička stream (7171a3), 48°51'56"N 17°32'29"E, 323 m a.s.l.
85. Javorník-Petruchovy Mlýny, Velička stream (7171a4), 48°52'17"N 17°33'02"E, 340 m a.s.l.
86. Suchov (7171b1), 48°54'00"N 17°36'20"E, 490 m a.s.l.; pools and puddles in a slope spring fen.
87. Nová Lhota, Porážky NNR (7171b1), 453 m a.s.l.
88. Horní Němčí, Za lesem NM (7171b2), 48°54'21"N 17°39'10"E, 600 m a.s.l.; pool in meadow.
89. Horní Němčí, Bahulské jamy NM (7171b2); pools in meadow.
90. Horní Němčí, Dolnoněmčanské louky NR (7171b2); pools.
91. Javorník, Machová NR – Rybnický potok stream (7171c1), 400 m a.s.l.
92. Javorník, Hrubý potok stream (7171c2), 48°50'52"N 17°33'05"E, 370 m a.s.l.
93. Javorník, Teplica stream (7171c3), 48°49'14"N 17°30'39"E, 341 m a.s.l.
94. Strání-Květná, Javořina Mt. (7172).
95. Strání, Mechnáčky NM (7172a1), 48°53'04"N 17°42'04"E, 510 m a.s.l.; pool at upper edge of the reserve.
96. Strání, Mechnáčky NM (7172a1), 48°52'58"N 17°42'16"E, 480 m a.s.l.; large pool in central part of the reserve.
97. Strání-Květná, Svinárský potok stream (7172a1), 48°52'48"N 17°42'28"E, 400 m a.s.l.
98. Strání-Květná, Klanečnice stream (7172a2), 48°53'02"N 17°43'25"E, 350 m a.s.l.
99. Luhačovice (6872d3), 49°06'71"N 17°45'20"E, 248 m a.s.l.; sifting of warp.

Water beetles (Coleoptera: Gyrinidae, Haliplidae, Noteridae, Dytiscidae, Helophoridae, Hydrophilidae)

100. Valašské Klobouky (6874c1), 49°08'17"N 18°01'13"E, 430 m a.s.l.; pond.
101. Valašské Klobouky, Javorůvky NR (6874c1), 49°08'03"N 18°01'57"E, 550 m a.s.l.
102. Valašské Klobouky (6874c1), 49°07'46"N 18°01'04"E, 450 m a.s.l.; pools in a meadow.
103. Valašské Klobouky, Bílé potoky NR (6874c3), 49°06'47"N 18°01'24"E, 420 m a.s.l.; calcareous fen.
104. Nedašov, Kaňoury NM (6874d3), 49°06'41"N 18°06'27"E, 640 m a.s.l.; cow excrements.
105. Popov, Vlára stream, (6973b2), 319 m a.s.l.
106. Nedašov, Pod Cigánem NM (6974b1), 580 m a.s.l.; pasture.
107. Lipov (7070d4), 48°54'36"N 17°28'32"E, 239 m a.s.l.
108. Horní Němčí (7071d2); reservoir.
109. Strání, Straňanská nádrž reservoir (7072c3), 448 m a.s.l.
110. Lopeník, Mechnáč (7072d1), 48°56'54"N 17°46'39"E, 544 m a.s.l.; pond.
111. Kněždub, Čertoryje NNR (7170b3).
112. Tvarožná Lhota (7170d1); sheep excrements.
113. Javorník, Velička stream (7171a3), 48°51'56"N 17°32'29"E, 323 m a.s.l.
114. Javorník, Machová NR (7171c1).

Annotated list of species

All the material examined for each species is listed; individual records are ordered according to the number of the collecting site. Each record is arranged as follows: name of the collecting site and its number (in parentheses), date(s) of collection(s), number of specimens, person who collected and identified the material, and place of deposition of the material (in parentheses). Published data are cited in a shortened form including the name of the collecting site and its number (in parentheses); additional information may be found in the original papers.

Family GYRINIDAE

Gyrinus distinctus Aubé, 1838

(EN)

Published record. TRÁVNÍČEK (2010a): Suchov, Kazivec stream (82).

Additional material examined. Tvarožná Lhota, Járkovec stream (71), 25.ix.2010, 2 spec., M. Straka lgt. & det. (MSHC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, recorded at two sites in the southern part of the area. **General distribution:** Palaearctic. **Habitat preferences:** Potamal. **Red List status:** EN.

Comments. Rare in the Czech Republic and recently known from only a few localities in southern and south-eastern Moravia (BOUKAL *et al.* 2007).

Gyrinus substriatus Stephens, 1828

Published record. TRÁVNÍČEK (2010a): Radějov, Kútky NR (79).

Additional material examined. Brumov-Bylnice, Hložecký potok stream (8), 8.x.2008, 1 spec., 1 ♀, M. Straka lgt. & det. (NC). Šumice (12), vii.2003, 1 ♂ 3 ♀♀, K. Resl lgt., J. Hájek det. (KRSC). Radějov (68), 11.vii.1998, 1 ♂ 2 ♀♀, P. Kment lgt., J. Hájek det. (NMPC). Tvarožná Lhota, Járkovec stream (71), 8.ix.2000, 1 ♀, P. Kment & I. Malenovský lgt., J. Hájek det. (NMPC). Tvarožná Lhota, Lučina (72), 14.vii.1998, 2 ♀♀, P. Kment lgt., J. Hájek det. (NMPC); 30.viii.2005, 2 ♀♀, M. Horsák lgt., J. Hájek det. (MHBC).

Distribution and frequency in the Bílé Karpaty PLA: Distributed throughout the area, common. **General distribution:** Western Palearctic. **Habitat preferences:** Euryecious. **Red List status:** –.

***Orectochilus villosus* (O. F. Müller, 1776)**

Material examined. Brumov-Bylnice, Kloboucký potok stream (9), 11.iv.2008, 4 larvae, P. Komzák lgt. & det. (NC). Bojkovice, Koménka stream (16), 24.ix.2009, 5 larvae, P. Komzák lgt. & det. (NC). Kolelač stream (21), 8.x.2008, 2 larvae, P. Komzák lgt. & det. (NC). Svatý Štěpán, Vlára stream (32), 1.x.2007, 7 larvae, M. Straka lgt. & det. (NC). Sidonie, Vlára stream (33), 24.ix.2009, 11 larvae, P. Komzák lgt. & det. (NC). Starý Hrozenkov, Krátkovský potok stream (56), 5.x.2009, 2 spec., 2 larvae, P. Komzák lgt. & det. (NC). Žitková, Žitkovský potok stream (57), 5.x.2009, 4 larvae, P. Komzák lgt. & det. (NC). Sudoměřice, Sudoměřický potok stream (62), 5.v.2009, 1 larva, S. Větríček lgt. & det. (NC). Javorník, Velička stream (84), 18.x.2008, 4 larvae, P. Komzák lgt. & det. (NC). Javorník, Teplica stream (93), 19.ix.2006, 4 larvae, P. Komzák lgt. & det. (NC). Strání-Květná, Klanečnice stream (98), 6.x.2009, 8 larvae, P. Komzák lgt. & det. (NC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Palearctic. **Habitat preferences:** Potamal. **Red List status:** –.

Comments. A species with nocturnal activity that hides under stones, in the vegetation or accumulated debris during the day (BOUKAL *et al.* 2007).

Family HALIPLIDAE

***Haliplus flavicollis* Sturm, 1834**

Published record. TRÁVNÍČEK (2010a): Slavičín (19).

Additional material examined. Nevšová (4), 6.viii.1999, 2 spec., P. Kment lgt., J. Hájek det. (NMPC). Tvarožná Lhota, Lučina (72), 13.v.1998, 1 spec., P. Kment lgt., D. Trávníček det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, recorded only in three localities. **General distribution:** Euro-Siberian. **Habitat preferences:** Euryecious. **Red List status:** –.

***Haliplus heydeni* Wehncke, 1875**

Published records. TRÁVNÍČEK (2010a): Slavičín (19); Vrbětice (22); Komňa, Lom Rasová NM (44); Sudoměřice, Sudoměřický potok stream valley (63); Radějov, Kútky NR (78); Radějov, Kútky NR (79); Horní Němčí, Za lesem NM (88); Strání, Mechnáčky NM (96).

Additional material examined. Valašské Klobouky (100), 22.v.1999, 1 ♀, P. Kment lgt., D. Trávníček det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: The most common species of the family in the Czech Republic and also in the Bílé Karpaty PLA. It occurs throughout the area in all types of standing water bodies. **General distribution:** Euro-Siberian. **Habitat preferences:** Euryecious. **Red List status:** –.

***Haliplus immaculatus* Gerhardt, 1877**

Published records. TRÁVNÍČEK (2010a): Slavičín (19); Vrbětice (22).

Water beetles (Coleoptera: Gyrinidae, Haliplidae, Noteridae, Dytiscidae, Helophoridae, Hydrophilidae)

Distribution and frequency in the Bílé Karpaty PLA: Rare, recorded at two sites in the north of the area. **General distribution:** Euro-Siberian. **Habitat preferences:** Euryecious, detritophilous. **Red List status:** –.

***Haliplus laminatus* (Schaller, 1783)**

Published records. TRÁVNÍČEK (2010a): Slavičín (19); Vrbětice (22); Žitková (53); Kněždub, Kejda pond (70). **Additional material examined.** Tvarožná Lhota, Lučina (72), 30.viii.2005, 1 spec., J. Sychra lgt. et det. (JSBC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, with localities scattered across the area. **General distribution:** European. **Habitat preferences:** Euryecious. **Red List status:** –.

***Haliplus lineatocollis* (Marsham, 1802)**

Published records. TRÁVNÍČEK (2010a): Sudoměřice, Sudoměřický potok stream valley (63); Strání, Mechnáčky NM (96).

Distribution and frequency in the Bílé Karpaty PLA: Found at only two sites, but probably more common. **General distribution:** Western Palearctic. **Habitat preferences:** Potamal, detritophilous. **Red List status:** –.

***Haliplus obliquus* (Fabricius, 1787)**

Published records. TRÁVNÍČEK (2010a): Slavičín (19); Žitková (53); Radějov, Kútky NR (78); Strání, Mechnáčky NM (95, 96).

Additional material examined. Horní Němčí, Uvezené NM (38), 14.viii.2003, 1 spec., D. Trávníček lgt. & det. (MJMZ). Strání, Mechnáčky NM (95), 28.vi.2007, 1 spec., O. Konvička lgt., M. Boukal det. (OKZC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered records across the area, common in suitable habitats. **General distribution:** Western Palearctic. **Habitat preferences:** Euryecious. **Red List status:** –.

Family NOTERIDAE

***Noterus clavicornis* (De Geer, 1774)**

Published records. TRÁVNÍČEK (2010a): Slavičín (19); Komňa, Lom Rasová NM (44); Sudoměřice, Sudoměřický potok stream valley (63); Radějov, Kútky NR (79); Horní Němčí, Za lesem NM (88); Strání, Mechnáčky NM (95, 96).

Additional material examined. Komňa, Lom Rasová NM (44), 9.v.2008, 2 spec., P. Komzák lgt., M. Straka det. (PKBC). Radějov, Mlýnky reservoir (67), 25.viii.1999, 1 spec., M. Fikáček lgt., J. Hájek det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Western Palearctic. **Habitat preferences:** Euryecious. **Red List status:** –.

***Noterus crassicornis* (O. F. Müller, 1776)**

Published records. TRÁVNÍČEK (2010a): Vrbětice (22); Komňa, Lom Rasová NM (44); Strání, Mechnáčky NM (95).

Additional material examined. Radějov, Mlýnky reservoir (67), 25.viii.1999, 2 spec., M. Fikáček lgt. & det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered across the area. **General distribution:** Euro-Siberian. **Habitat preferences:** Acidophilous. **Red List status:** –.

Comments. *Noterus crassicornis* is less common than *N. clavicornis* in the Bílé Karpaty Mts., although in most of other regions of the Czech Republic it is quite the reverse.

Family DYTISCIDAE

***Acilius canaliculatus* (Nicolai, 1822)**

Material examined. Tvarožná Lhota, Lučina (72), 14.vii.1998, 1 ♂, P. Kment lgt., J. Hájek det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Known from a single record. **General distribution:** Northern Palaearctic. **Habitat preferences:** Acidophilous. **Red List status:** –.

***Acilius sulcatus* (Linnaeus, 1758)**

Published record. TRÁVNÍČEK (2010a): Radějov, Kútky NR (79).

Additional material examined. Bystřice pod Lopeníkem (39), 15.viii.2008, 1 ♀, K. Resl lgt., J. Hájek det. (KRSC). Žitková (52), 22.vi.2007, 1 ♂, J. Schneider lgt., J. Hájek det. (JSPC). Radějov (68), 11.vii.1998, 1 ♂, P. Kment lgt., J. Hájek det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Uncommon; confined to larger standing water bodies which are rare in the area. **General distribution:** Palaearctic. **Habitat preferences:** Euryecious. **Red List status:** –.

***Agabus biguttatus* (Olivier, 1795)**

Material examined. Petrůvka, Kladenska springs (2), 8.v.2010, 1 spec., M. Straka lgt. & det. (MSHC). Lopeník (40), 11.vii.1970, 1 spec., S. Krause lgt., J. Hájek det. (NMPC). Strání-Květná, Javořina (94), 30.vii.1983, 1 ♂, K. Resl lgt., J. Hájek det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Quite a rare species, known from a few isolated records. **General distribution:** Western Palaearctic. **Habitat preferences:** Euryecious. **Red List status:** –.

***Agabus bipustulatus* (Linnaeus, 1767)**

Published records. TRÁVNÍČEK (2010a): Slavičín (19); Vrbětice (22); Suchov, Kazivec stream (34); Komňa, Lom Rasová NM (44); Sudoměřice, Sudoměřický potok stream valley (63); Radějov, Kútky NR (79); Horní Němčí, Za lesem NM (88); Strání, Mechnáčky NM (95, 96).

Water beetles (Coleoptera: Gyrinidae, Haliplidae, Noteridae, Dytiscidae, Helophoridae, Hydrophilidae)

Additional material examined. Nezdenice (11), 24.iv.1969, 1 ♀, S. Krause lgt., J. Hájek det. (NMPC). Šumice (12), 16.vi.2002, 1 ♂, K. Resl lgt., J. Hájek det. (KRSC). Kněždub, Čertoryje NNR (75), 17.iv.2000, 1 ♀, 18.vi.2000, 1 ♀, P. Kment lgt., J. Hájek det. (NMPC). Nová Lhota, Porážky NNR (87), 24.viii.1999, 3 spec., M. Fikáček lgt., J. Hájek det. (NMPC). Horní Němčí, Za lesem NM (88), 11.ix.2008, 20 spec., J. Stanovský lgt., J. Hájek det. (JSOC). Strání-Květná, Javořina (94), 17.vii.1985, 1 ♀, K. Resl lgt., J. Hájek det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: One of the most common dytiscid beetles in the Czech Republic including the Bílé Karpaty PLA. **General distribution:** Palaearctic. **Habitat preferences:** Euryecious. **Red List status:** –.

Agabus guttatus guttatus (Paykull, 1798)

Published records. TRÁVNÍČEK (2010a): Suchov, Kazivec stream (35); Žitková, Pod Žitkovským vrchem NR (54); Suchov, Kazivec stream (82).

Additional material examined. Bzová (29), 11.vi.2004, 1 ♂ 2 ♀♀, D. Trávníček lgt. & det. (MJMZ). Horní Němčí, Okluky stream (37), 4.x.2006, 1 spec., M. Straka lgt. & det. (MSHC). Bánov, Ordějov reservoir (41), v.1987, 1 ♀, K. Resl lgt., J. Hájek det. (NMPC). Lopeník, Nivnička stream (45), 15.v.2010, 1 spec., M. Straka lgt. & det. (MSHC). Březová, Hradecký járek stream (47), 15.v.2010, 1 spec., M. Straka lgt. & det. (MSHC). Strání, Hrnčárky NM (50), 2.ix.2005, 1 spec., J. Sychra lgt. & det. (JSBC). Javorník, Machová NR (91), 14.v.1998, 2 ♂♂, P. Kment lgt., J. Hájek det. (NMPC). Strání-Květná, Javořina (94), 17.vii.1985, 1 ♀ (NMPC); vi.1998, 1 ♂ (KRSC); both K. Resl lgt., J. Hájek det.

Distribution and frequency in the Bílé Karpaty PLA: Occurring throughout the area, common in suitable habitats. **General distribution:** Western Palaearctic. **Habitat preferences:** Euryecious, preferring flowing water such as small streams and spring areas. **Red List status:** –.

Agabus melanarius Aubé, 1837

Published records. TRÁVNÍČEK (2010a): Komňa, Lom Rasová NM (44); Březová, Kalábová NM (48); Žitková, Pod Žitkovským vrchem NR (54).

Additional material examined. Válašské Klobouky, Javorůvky NR (6), 28.ii.2008, 1 ♂, O. Konvička lgt., D. Trávníček det. (OKZC). Bzová (29), 11.vi.2004, 2 ♂♂ 1 ♀, D. Trávníček lgt. & det. (MJMZ). Komňa, Bučnick quarry (42), 16.v.2007, 1 ♀, D. Trávníček lgt. & det. (MJMZ). Nová Lhota, Porážky NNR (87), 24.viii.1999, 1 spec., M. Fikáček lgt., J. Hájek det. (NMPC). Strání-Květná, Javořina (94), 26.iv.1998, 1 spec., K. Resl lgt., J. Hájek det. (KRSC).

Distribution and frequency in the Bílé Karpaty PLA: Recorded from throughout the area, common. **General distribution:** Central and northern Europe. **Habitat preferences:** Acidophilous. **Red List status:** –.

Agabus sturmi (Gyllenhal, 1808)

Published records. TRÁVNÍČEK (2010a): Slavičín (19); Vrbětice (22).

Distribution and frequency in the Bílé Karpaty PLA: Known from only two localities in the north; less common than in most other regions of the Czech Republic. **General distribution:** Palaearctic. **Habitat preferences:** Acidophilous. **Red List status:** –.

Comments. Continuing sampling effort may bring more records from the area.

***Colymbetes fuscus* (Linnaeus, 1758)**

Material examined. Lopeník, Mechnáč (110), 30.viii.2006, 1 spec., J. Sychra lgt. et det. (MHBC).

Distribution and frequency in the Bílé Karpaty PLA: The only available record is from the central part of the area. **General distribution:** Palaearctic. **Habitat preferences:** Euryecious. **Red List status:** –.

***Deronectes latus* (Stephens, 1829)**

(VU)

Material examined. Slavičín, Lukšinka stream (3), 4.ix.2010, 3 spec., M. Straka lgt. & det. (MSHC). Záhorovice, Kladenka stream (15), 8.v.2010, 1 spec., M. Straka lgt. & det. (MSHC). Sudoměřice, Sudoměřický potok stream (61), 25.viii.2009, 2 spec., M. Straka lgt. & det. (MSHC). Radějov, Mandát stream (65), 25.ix.2010, 3 spec., M. Straka lgt. & det. (MSHC). Radějov, Sudoměřický potok stream (66), 17.x.2007, 1 spec., M. Straka lgt. & det. (NC).

Distribution and frequency in the Bílé Karpaty PLA: Quite a rare species occurring locally. **General distribution:** Europe, except for the Iberian and Apennine Peninsulas. **Habitat preferences:** Potamal, rhitral. **Red List status:** VU.

***Dytiscus circumflexus* Fabricius, 1801**

(VU)

Material examined. Tvarožná Lhota, Lučina (72), 30.viii.2005, 1 spec., 1 ♀, J. Sychra lgt. & det. (JSBC).

Distribution and frequency in the Bílé Karpaty PLA: The only available record was made in the south of the area. **General distribution:** Western Palaearctic. **Habitat preferences:** Silicophilous. **Red List status:** VU.

Comments. Currently, the species is generally rare in the Czech Republic. It was found more frequently only in Sokolov and Znojmo environs and the Třeboňsko region (BOUKAL *et al.* 2007).

***Dytiscus marginalis marginalis* Linnaeus, 1758**

Material examined. Komňa, Lom Rasová NM (44); 20.iv.2008, 7 ♂♂ 2 ♀♀, K. Resl lgt., J. Hájek det. (KRSC). Tvarožná Lhota, Újezdský potok stream (69), 19.ix.1997, 1 ♂, M. Horsák lgt., P. Kment det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Recorded from only two localities; nevertheless, it may be common in the area similarly to elsewhere in the Czech Republic. **General distribution:** Palaearctic. **Habitat preferences:** Euryecious. **Red List status:** –.

***Graphoderus austriacus* (Sturm, 1834)**

Material examined. Radějov, Mlýnky reservoir (67), 25.viii.1999, 1 spec., M. Fikáček lgt., J. Hájek det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, found at only one locality in the southern part of the area. **General distribution:** Palaearctic. **Habitat preferences:** Detritophilous. **Red List status:** –.

Water beetles (Coleoptera: Gyrinidae, Haliplidae, Noteridae, Dytiscidae, Helophoridae, Hydrophilidae)

***Graphoderus cinereus* (Linnaeus, 1758)**

Published records. TRÁVNÍČEK (2010a): Kněždub, Kejda pond (70); Komňa, Lom Rasová NM (44); Strání, Mechnáčky NM (95).

Distribution and frequency in the Bílé Karpaty PLA: Quite a rare species, known from three isolated localities. **General distribution:** Palaearctic. **Habitat preferences:** Detritophilous, preferring larger water bodies with dense vegetation. **Red List status:** –.

***Graptodytes bilineatus* (Sturm, 1835) (NT)**

Published records. TRÁVNÍČEK (2010a): Suchov, periodical pool near forest edge (35); Horní Němčí, Za lesem NM (88); Strání, Mechnáčky NM (96).

Additional material examined. Horní Němčí, Za lesem NM (88), 29.v.2008, 11 spec. J. Stanovský lgt., J. Hájek det. (LKOC).

Distribution and frequency in the Bílé Karpaty PLA: All records are situated in the central part of the area where it is common in suitable habitats. **General distribution:** Western Palaearctic. **Habitat preferences:** Detritophilous. **Red List status:** NT.

***Graptodytes pictus* (Fabricius, 1787)**

Published records. TRÁVNÍČEK (2010a): Slavičín (19); Vrbětice (22); Komňa, Lom Rasová NM (44); Sudoměřice, Sudoměřický potok stream valley (63); Strání, Mechnáčky NM (96).

Additional material examined. Radějov, Mlýnky reservoir (67), 25.viii.1999, 2 spec., M. Fikáček lgt., J. Hájek det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Quite common, known from several records scattered throughout the area. **General distribution:** Central and northern Europe. **Habitat preferences:** Euryecious. **Red List status:** –.

***Hydroglyphus geminus* (Fabricius, 1781)**

Published records. TRÁVNÍČEK (2010a): Slavičín (19); Vrbětice (22); Komňa, Lom Rasová NM (44); Sudoměřice, Sudoměřický potok stream valley (63); Radějov, Kútky NR (79); Horní Němčí, Za lesem NM (88); Strání, Mechnáčky NM (95, 96).

Additional material examined. Nevšová (4), 6.viii.1999, 1 spec., P. Kment lgt., J. Hájek det. (NMPC). Šumice (12), 19.vii.1999, 1 spec, K. Resl lgt., J. Hájek det. (KRSC). Korytná, Lubná pond (46), 5.vii.2001, 3 spec., P. Kment lgt., J. Hájek det. (NMPC). Kněždub, Kejda pond (70), 14.vii.1998, 1 spec., P. Kment lgt., J. Hájek det. (NMPC). Tvarožná Lhota, Lučina (72), 14.vii.1998, 4 spec., P. Kment lgt., J. Hájek det. (NMPC). Hroznová Lhota, Velička stream (74), 25.ix.2010, 1 spec., M. Straka lgt. & det. (MSHC). Kněždub, Čertoryje NNR (75), 28.vi.2008, 2 spec., T. Sitek lgt., J. Hájek det. (TSOC). Nová Lhota, Porážky NNR (87), 24.viii.1999, 1 spec., M. Fikáček lgt., J. Hájek det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Very common throughout the area. **General distribution:** Palaearctic. **Habitat preferences:** Euryecious. **Red List status:** –.

Hydroporus angustatus Sturm, 1835

Published records. TRÁVNÍČEK (2010a): Sudoměřice, Sudoměřický potok stream valley (63).

Additional material examined. Šumice (12), 21.vii.2003, 1 spec., K. Resl lgt., J. Hájek det. (KRSC). Radějov, Mlýnský reservoir (67), 25.viii.1999, 1 spec., M. Fikáček lgt., J. Hájek det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Uncommon, scattered in the southern part of the area. **General distribution:** Western Palaearctic. **Habitat preferences:** Acidophilous. **Red List status:** –.

Hydroporus discretus discretus Fairmaire et Brisout, 1859

Published records. TRÁVNÍČEK (2010a): Žitková, Pod Žitkovským vrchem NR (54); Velká nad Veličkou, Zahrady pod Hájem NNR (80).

Additional material examined. Kladná-Žilín (14), 19.iv.1994, 1 ♀, D. Trávníček lgt. & det. (MJMZ). Tvarožná Lhota, Lučina, (72), 26.viii.1999, 5 spec., M. Fikáček lgt. & det. (NMPC). Kněždub, Čertoryje NNR (75), 18.vi.2000, 1 spec., P. Kment lgt., J. Hájek det. (NMPC). Javorník, pools in clay plant (83), 8.vi.2008, 1 spec., O. Konvička lgt., D. Trávníček det. (OKZC). Javorník, Machová NR (91), 14.v.1998, 1 spec., P. Kment lgt., J. Hájek det. (NMPC). Strání-Květná, Javořina (94), 26.iv.1998, 1 spec., K. Resl lgt., J. Hájek det. (KRSC).

Distribution and frequency in the Bílé Karpaty PLA: Common, occurring throughout the area. **General distribution:** Europe. **Habitat preferences:** Euryecious. **Red List status:** –.

Comments. Slope springs typical for the Western Carpathian region provide suitable habitats to the species.

Hydroporus ferrugineus Stephens, 1828

Published record. TRÁVNÍČEK (2010a): Březová, Kalábová NM (48).

Additional material examined. Petrůvka, Kladenka springs (2), 8.v.2010, 3 spec., M. Straka lgt. & det. (MSHC). Bzová (29), 11.vi.2004, 1 spec., D. Trávníček lgt. & det. (MJMZ). Strání, Hrnčárky NM (50), 2.ix.2005, 5 spec., J. Sychra lgt. & det. (JSBC).

Distribution and frequency in the Bílé Karpaty PLA: Occurring scattered across the area, locally common. **General distribution:** Central Europe. **Habitat preferences:** Acidophilous, crenophilous. **Red List status:** –.

Comments. Quite a numerous population was recorded in the meadow spring with tufa formation in the Kalábová NM near Březová.

Hydroporus incognitus Sharp, 1869

Material examined. Starý Hrozenkov (55), 28.iv.2001, 1 ♀, T. Staněk lgt., J. Hájek det. (TSHK).

Distribution and frequency in the Bílé Karpaty PLA: Known from only one locality in the area; as the species is quite common throughout the Czech Republic, other records may be anticipated with continuing sampling effort. **General distribution:** Central and northern Europe. **Habitat preferences:** Euryecious. **Red List status:** –.

Water beetles (Coleoptera: Gyrinidae, Haliplidae, Noteridae, Dytiscidae, Helophoridae, Hydrophilidae)

***Hydroporus memnonius* Nicolai, 1822**

Published records. TRÁVNÍČEK (2010a): Nezdenice (17); Slavičín (19); Vrbětice (22); Radějov, Kútky NR (78, 79); Horní Němčí, Za lesem NM (88).

Additional material examined. Strání, Hrnčárky NM (50), 2.ix.2005, 1 spec., J. Sychra lgt., J. Hájek det. (JSBC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered across the area, common in suitable habitats. **General distribution:** Western Palaearctic. **Habitat preferences:** Acidophilous, potamal. **Red List status:** –.

***Hydroporus palustris* (Linnaeus, 1761)**

Material examined. Kněždub, Čertoryje NNR (75), 17.iv.2000, 1 spec., P. Kment lgt., J. Hájek det. (NMPC). Horní Němčí, Za lesem NM (88), 29.v.2008, 11 spec., J. Stanovský lgt., J. Hájek det. (LKOC).

Distribution and frequency in the Bílé Karpaty PLA: Recorded from only two localities, although it is generally very common in the Czech Republic. **General distribution:** Palaearctic. **Habitat preferences:** Euryecious. **Red List status:** –.

***Hydroporus planus* (Fabricius, 1781)**

Published records. TRÁVNÍČEK (2010a): Nezdenice (17); Slavičín (19); Vrbětice (22); Komňa, Lom Rasová NM (44); Březová, Kalábová NM (48); Radějov, Kútky NR (78); Velká nad Veličkou, Zahrady pod Hájem NNR (80); Horní Němčí, Za lesem NM (88); Strání, Mechnáčky NM (95, 96).

Additional material examined. Šumice (12), 28.iv.1999, 1 spec., K. Resl lgt., J. Hájek det. (KRSC); Rudice (13), 14.vi.2005, 3 spec., K. Resl lgt., J. Hájek det. (KRSC). Strání, Klanečnice stream valley (49), 10.vii.1998, 1 spec., P. Kment lgt., J. Hájek det. (NMPC). Kněždub, Čertoryje NNR (75), 17.iv.2000, 2 spec.; 18.vi.2000, 5 spec. P. Kment lgt., J. Hájek det. (NMPC). Javorník (83), 8.vi.2008, 1 spec., O. Konvička lgt., D. Trávníček det. (OKZC). Nová Lhota, Porážky NNR (87), 24.viii.1999, 1 spec., M. Fikáček lgt., J. Hájek det. (NMPC). Horní Němčí, Za lesem NM (88), 29.v.2008, 1 spec., J. Stanovský lgt., J. Hájek det. (LKOC). Javorník, Machová NR (91), 14.v.1998, 1 spec., P. Kment lgt., J. Hájek det. (NMPC). Strání-Květná, Javořina (94), 15.v.1971, 1 spec., S. Krause lgt., J. Hájek det. (NMPC); 26.iv.1998, 1 spec., K. Resl lgt., J. Hájek det. (KRSC).

Distribution and frequency in the Bílé Karpaty PLA: One of the most common diving beetles in the area, as well as in other regions of the Czech Republic. **General distribution:** Western Palaearctic. **Habitat preferences:** Euryecious. **Red List status:** –.

***Hydroporus pubescens* (Gyllenhal, 1808)**

Published record. TRÁVNÍČEK (2010a): Žitková, Pod Žitkovským vrchem NR (54).

Distribution and frequency in the Bílé Karpaty PLA: Rare, recorded from only one site. **General distribution:** Western Palaearctic. **Habitat preferences:** Euryecious. **Red List status:** –.

Comments. A recent occurrence of the species in Moravia has been confirmed by TRÁVNÍČEK (2010a,b).

***Hydroporus striola* (Gyllenhal, 1826)**

Material examined. Šumice (12), 26.vi.2006, 1 spec., K. Resl lgt., J. Hájek det. (KRSC).

Distribution and frequency in the Bílé Karpaty PLA: Known from only one locality; additional records may be awaited with continuing sampling effort. **General distribution:** Holarctic. **Habitat preferences:** Acidophilous, detritophilous. **Red List status:** –.

***Hydroporus tristis* (Paykull, 1798)**

Published record. TRÁVNÍČEK (2010a): Horní Němčí, Za lesem NM (88).

Additional material examined. Kněždub, Kejda pond (70), 14.vii.1998, 1 spec., P. Kment lgt., J. Hájek det. (NMPC). Horní Němčí, Za lesem NM (88), 29.v.2008, 1 spec., J. Stanovský lgt., J. Hájek det. (LKOC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, recorded from only two localities. **General distribution:** Holarctic. **Habitat preferences:** Acidophilous. **Red List status:** –.

***Hydrovatus cuspidatus* (Kunze, 1818) (EN)**

Published record. TRÁVNÍČEK (2010a): Strání, Mechnáčky NM (96).

Distribution and frequency in the Bílé Karpaty PLA: Rare, found at only one site. **General distribution:** Western Palaearctic. **Habitat preferences:** Detritophilous. **Red List status:** EN.

***Hygrotus decoratus* (Gyllenhal, 1810)**

Published record. TRÁVNÍČEK (2010a): Horní Němčí, Za lesem NM (88).

Additional material examined. Horní Němčí, Za lesem NM (88), 29.v.2008, 1 spec., J. Stanovský lgt., J. Hájek det. (LKOC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, found at only one site. **General distribution:** Western Palaearctic. **Habitat preferences:** Acidophilous. **Red List status:** –.

***Hygrotus impressopunctatus* (Schaller, 1783)**

Published records. TRÁVNÍČEK (2010a): Slavičín (19); Vrbětice (22); Komňa, Lom Rasová NM (44); Sudoměřice, Sudoměřický potok stream valley (63); Horní Němčí, Za lesem NM (88); Strání, Mechnáčky NM (95).

Additional material examined. Šumice (12), 21.vii.1998, 2 spec., K. Resl lgt., J. Hájek det. (KRSC). Sidonie, Sidonie NR, light trapping (31), 1 spec., 22.vi.2008, O. Konvička lgt., D. Trávníček det. (OKZC). Korytná, Lubná pond (46), 5.vii.2001, 1 ♂, P. Kment lgt., J. Hájek det. (NMPC). Strání-Květná, Javořina (94), 26.iv.1998, 1 spec., K. Resl lgt., J. Hájek det. (KRSC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, common. **General distribution:** Holarctic. **Habitat preferences:** Euryecious. **Red List status:** –.

Water beetles (Coleoptera: Gyrinidae, Haliplidae, Noteridae, Dytiscidae, Helophoridae, Hydrophilidae)

***Hygrotus inaequalis* (Fabricius, 1777)**

Published records. TRÁVNÍČEK (2010a): Slavičín (19); Komňa, Lom Rasová NM (44).

Distribution and frequency in the Bílé Karpaty PLA: Found at only two sites; as the species is fairly common throughout the Czech Republic, other records from the area may be anticipated. **General distribution:** Palaearctic. **Habitat preferences:** Euryecious. **Red List status:** –.

***Hygrotus nigrolineatus* (Steven, 1808) (VU)**

Material examined. Radějov, Mlýnky reservoir (67), 25.viii.1999, 1 spec., M. Fikáček lgt. & det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, recorded at only one site. **General distribution:** Palaearctic. **Habitat preferences:** Silicophilous. **Red List status:** VU.

***Hygrotus parallelogrammus* (Ahrens, 1812) (CR)**

Published record. TRÁVNÍČEK (2010a): Radějov, Kútky NR (79).

Distribution and frequency in the Bílé Karpaty PLA: Rare, recorded at only one site. **General distribution:** Palaearctic. **Habitat preferences:** Detritophilous. **Red List status:** CR.

Comments. Recent records in the Czech Republic come from a few sites in southern Moravia (BOUKAL *et al.* 2007).

***Hyphydrus ovatus* (Linnaeus, 1761)**

Published records. TRÁVNÍČEK (2010a): Slavičín (19); Vrbětice (22); Komňa, Lom Rasová NM (44); Strání, Mechnáčky NM (96).

Additional material examined. Slavičín (20), 25.v.2006, 1 spec., O. Konvička lgt., D. Trávníček det. (OKZC).

Distribution and frequency in the Bílé Karpaty PLA: Found at four sites; as it is very common throughout the Czech Republic, more records may be anticipated. **General distribution:** Palaearctic. **Habitat preferences:** Euryecious. **Red List status:** –.

***Ilybius chalconatus* (Panzer, 1797)**

Published records. TRÁVNÍČEK (2010a): Velká nad Veličkou, right tributary of Velička stream (81).

Additional material examined. Tvarožná Lhota, Járkovec stream (71), 14.vii.1998, 1 ♀, P. Kment lgt., J. Hájek det. (NMPC). Kněždub, Čertoryje NNR (75), 18.vi.2000, 1 ♂ 4 ♀♀, P. Kment lgt., J. Hájek det. (NMPC). Javorník (83), 1.vi.2008, 1 spec., O. Konvička lgt., D. Trávníček det. (OKZC). Javorník, Machová NR (91), 14.v.1998, 1 ♂ 1 ♀, P. Kment lgt., J. Hájek det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: All records come from the southern part of the area, locally common. **General distribution:** Western Palaearctic. **Habitat preferences:** Euryecious. **Red List status:** –.

***Ilybius fenestratus* (Fabricius, 1781)**

Published record. TRÁVNÍČEK (2010a): Radějov, Kútky NR (79).

Additional material examined. Kněždub, Čertoryje NNR (75), 18.vi.2000, 1 ♂, P. Kment lgt., J. Hájek det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Found at two sites in the southern part of the area. **General distribution:** Palaearctic. **Habitat preferences:** Euryecious. **Red List status:** –.

***Ilybius fuliginosus fuliginosus* (Fabricius, 1792)**

Published records. TRÁVNÍČEK (2010a): Nezdenice (17); Slavičín (19); Vrbětice (22); Radějov, Kútky NR (79).

Additional material examined. Šumice (12), 26.vi.2006, 1 ♀, K. Resl lgt., J. Hájek det. (KRSC). Korytná, Lubná pond (46), 5.vii.2001, 1 ♂ 1 ♀, P. Kment lgt., J. Hájek det. (NMPC). Strání, Klanečnice stream valley (49), 10.vii.1998, 1 ♂ 2 ♀♀, P. Kment lgt., J. Hájek det. (NMPC). Výškovec (59), vi.1986, 1 ♀, F. Kopeček lgt., J. Hájek det. (NMPC). Tvarožná Lhota, Lučina (72), 14.vii.1998, 1 ♂, P. Kment lgt., J. Hájek det. (NMPC). Hrubá Vrbka (76), 25.vi.2010, 1 ♂, J. Schneider lgt., J. Hájek det. (JSPC). Javorník, Machová NR (91), 14.v.1998, 1 ♀, M. Horsák lgt. & det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Known from records scattered throughout the area, quite common in suitable habitats. **General distribution:** Palaearctic. **Habitat preferences:** Euryecious. **Red List status:** –.

***Ilybius quadriguttatus* (Lacordaire, 1835)**

Material examined. Šumice (12), 19.vii.1998, 1 ♂, K. Resl lgt., J. Hájek det. (KRSC). Hrubá Vrbka, light trapping (77), 8.vii.2007, 1 ♂, O. Konvička lgt., D. Trávníček det. (OKZC).

Distribution and frequency in the Bílé Karpaty PLA: Known from only two records. **General distribution:** Western Palaearctic. **Habitat preferences:** Detritophilous. **Red List status:** –.

Comments. The species prefers larger water bodies (BOUKAL *et al.* 2007). For this reason, it is rare in the Bílé Karpaty PLA which is poor in such habitats.

***Ilybius subaeneus* Erichson, 1837**

Material examined. Strání, Klanečnice stream valley (49), 16.v.1998, 1 ♀, P. Kment lgt., J. Hájek det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Found at only one site. **General distribution:** Holarctic. **Habitat preferences:** Euryecious. **Red List status:** –.

Comments. Generally a common diving beetle in the Czech Republic; its rarity in the Bílé Karpaty PLA may be explained by the absence of larger water bodies which it prefers.

Water beetles (Coleoptera: Gyrinidae, Haliplidae, Noteridae, Dytiscidae, Helophoridae, Hydrophilidae)

Laccophilus hyalinus (De Geer, 1774)

Published records. TRÁVNÍČEK (2010a): Slavičín (19); Komňa, Lom Rasová NM (44); Sudoměřice, Sudoměřický potok stream valley (63); Radějov, Kútky NR (79); Strání, Mechnáčky NM (95, 96).

Additional material examined. Šumice (12), 21.vii.1999, 1 spec., K. Resl lgt., J. Hájek det. (KRSC). Slavičín (20), 25.v.2006, 1 spec., O. Konvička lgt., D. Trávníček det. (OKZC). Korytná, Lubná pond (46), 5.vii.2001, 3 spec., P. Kment lgt., J. Hájek det. (NMPC). Kněždub, Kejda pond (70), 14.vii.1998, 1 spec., P. Kment lgt., J. Hájek det. (NMPC). Kněždub, Čertoryje NNR (75), 18.vi.2000, 1 spec., P. Kment lgt., J. Hájek det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common, found throughout the area. **General distribution:** Palaearctic. **Habitat preferences:** Potamal. **Red List status:** –.

Laccophilus minutus (Linnaeus, 1758)

Published records. TRÁVNÍČEK (2010a): Sudoměřice, Sudoměřický potok stream valley (63); Radějov, Kútky NR (79); Strání, Mechnáčky NM (95, 96).

Additional material examined. Nevšová (4), 6.viii.1999, 7 spec., P. Kment lgt., J. Hájek det. (NMPC). Šumice (12), 18.viii.2004, 1 spec., K. Resl lgt., J. Hájek det. (KRSC). Radějov, Mlýnský reservoir (67), 25.viii.1999, 1 spec., M. Fikáček lgt., J. Hájek det. (NMPC). Tvarožná Lhota, Lučina (72), 14.vii.1998, 9 spec., P. Kment lgt., J. Hájek det. (NMPC). Hroznová Lhota, Velička stream (74), 25.ix.2010, 1 spec., M. Straka lgt. & det. (MSHC). Kněždub, Čertoryje NNR (75), 18.vi.2000, 1 spec., P. Kment lgt., J. Hájek det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common, found throughout the area. **General distribution:** Palaearctic, Oriental. **Habitat preferences:** Euryecious. **Red List status:** –.

Laccophilus poecilus Klug, 1834

(VU)

Published records. TRÁVNÍČEK (2010a): Slavičín (19); Sudoměřice, Sudoměřický potok stream valley (63).

Distribution and frequency in the Bílé Karpaty PLA: Rare, recorded at only two localities. **General distribution:** Palaearctic. **Habitat preferences:** Detritophilous, preferring shallow water bodies with dense vegetation and warm water, such as old inundated sand- and clay-pits. **Red List status:** VU.

Platambus maculatus (Linnaeus, 1758)

Published records. TRÁVNÍČEK (2010a): Vrbětice (22); Suchov, Kazivec stream (34); Radějov, Kútky NR (79); Suchov, Kazivec stream (82). KRŮPALOVÁ *et al.* (2011): Valašské Klobouky, Bílé potoky NR (103).

Additional material examined. Petrůvka, pond on Petrůvka stream (1), 6.viii.1999, 1 ♀, P. Kment lgt., J. Hájek det. (NMPC). Slavičín, Lukšinka stream (3), 4.ix.2010, 1 spec., M. Straka lgt. & det. (MSHC). Vrbětice, Václavský potok stream (5), 8.v.2010, 1 spec., M. Straka lgt. & det. (MSHC). Brumov-Bylnice, Kloboucký potok stream (9), 9.x.2008, 12 larvae, P. Komzák lgt. & det. (NC). Záhorovice, Kladenka stream (15), 8.v.2010, 2 spec., M. Straka lgt. & det. (MSHC). Záhorovice, Kladenka stream (15), 4.v.2009, 8 spec., P. Komzák lgt. & det. (PKBC). Bojkovice, Koménka stream (16), 24.ix.2009, 20 larvae, P. Komzák lgt. & det. (NC). Pítín, Kolelač stream (21), 8.x.2008, 8 spec., P. Komzák lgt. & det. (NC). Rokytnice, right tributary of Rokytenska stream (24), 4.ix.2010, 2 spec., M. Straka lgt. & det. (MSHC). Štítná nad Vláří, Zelenský potok stream (25),

4.ix.2010, 2 spec., M. Straka lgt. & det. (MSHC). Popov, Zelenský potok stream (26), 5.v.2009, 1 spec., S. Větríček lgt. & det. (NC). Pitín, Olšava stream (28), 8.v.2010, 1 spec., M. Straka lgt. & det. (MSHC). Sidonie, Vlára stream (33), 28.vii.2006, 1 spec., P. Komzák lgt. & det. (PKBC). Starý Hrozenkov, Krátkovský potok stream (56), 5.x.2009, 4 spec., P. Komzák lgt. & det. (NC). Starý Hrozenkov, Drietomica stream (58), 6.x.2009, 20 larvae, P. Komzák lgt. & det. (PKBC). Petrov, Radějovka stream (60), 9.x.2008, 5 larvae, P. Komzák lgt. & det. (NC). Sudoměřice, Sudoměřický potok stream (61), 25.viii.2009, 1 spec., M. Straka lgt. & det. (MSHC). Strážnice, Radějovka stream (64), 4.vi.2009, 1 spec., M. Straka lgt. & det. (MSHC). Tvarožná Lhota, Lučina, (72), 30.viii.2005, 1 spec., M. Horsák lgt. & det. (MHBC). Kněždub, Čertoryje NNR (75), 17.iv.2000, 1 ♀, P. Kment lgt., J. Hájek det. (NMPC). Javorník, Velička stream (84), 18.x.2008, 26 larvae, P. Komzák lgt. & det. (NC). Javorník, Hrubý potok stream (92), 7.x.2009, 2 larvae, P. Komzák lgt. & det. (NC). Javorník, Teplica stream (93), 19.ix.2006, 147 spec., P. Komzák lgt. & det. (NC). Strání-Květná, Klanečnice stream (98), 6.x.2009, 49 larvae, P. Komzák lgt. & det. (NC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Euro-Siberian. **Habitat preferences:** Potamal, rhitral. **Red List status:** –.

Rhantus bistriatus (Bergsträsser, 1778)

Material examined. Šumice (12), 20.vii.1998, 1 ♀, K. Resl lgt., J. Hájek det. (KRSC). Brumov-Bylnice (30), 5.viii.1999, 1 spec., K. Resl lgt., J. Hájek det. (KRSC). Kněždub, Čertoryje NNR (75), 17.iv.2000, 1 ♀, P. Kment lgt., J. Hájek det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Uncommon, found at three sites. **General distribution:** Palaearctic. **Habitat preferences:** Detritophilous. **Red List status:** –.

Rhantus frontalis (Marsham, 1802)

Published record. TRÁVNÍČEK (2010a): Radějov, Kútky NR (79).

Distribution and frequency in the Bílé Karpaty PLA: The only finding so far available comes from the southern part of the area; more records may be anticipated with a continuing sampling effort. **General distribution:** Palaearctic. **Habitat preferences:** Euryecious. **Red List status:** –.

Rhantus suturalis (Macleay, 1825)

Published records. TRÁVNÍČEK (2010a): Slavičín (19); Vrbětice (22); Komňa, Lom Rasová NM (44); Sudoměřice, Sudoměřický potok stream valley (63).

Additional material examined. Šumice (12), 19.vii.1998, 1 ♂ 1 ♀; 8.viii.1999, 1 spec.; 16.vi.2002, 1 ♀; 26.vi.2006, 2 ♂♂; 15.vii.2007, 1 ♀; all K. Resl lgt., J. Hájek det. (KRSC). Komňa, Lom Rasová NM (44), 9.v.2008, 1 spec., P. Komzák lgt., M. Straka det. (PKBC). Radějov, Mlýnky reservoir (67), 25.viii.1999, 1 spec., M. Fikáček lgt. & det. (NMPC). Tvarožná Lhota, Lučina, (72), 14.vii.1998, 1 ♀, P. Kment lgt., J. Hájek det. (NMPC). Tvarožná Lhota, Lučina, (72), 25.viii.1999, 1 spec., M. Fikáček lgt. & det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common, occurring throughout the area. **General distribution:** Palaearctic, Oriental and Australian. **Habitat preferences:** Euryecious. **Red List status:** –.

Water beetles (Coleoptera: Gyrinidae, Haliplidae, Noteridae, Dytiscidae, Helophoridae, Hydrophilidae)

Family HELOPHORIDAE

Helophorus arvernicus Mulsant, 1846 (NT)

Material examined. Popov, Vlára stream (105), 3.viii.2011, 1 spec., O. Konvička lgt., D. Trávníček det. (OKZC).

Distribution and frequency in the Bílé Karpaty PLA: Recorded at only one site, rare.
General distribution: European. **Habitat preferences:** Semiaquatic. **Red List status:** NT.

Helophorus aquaticus (Linnaeus, 1758)

Published records. TRÁVNÍČEK (2010a): Slavičín (19); Komňa, Lom Rasová NM (44); Žitková (53); Sudoměřice, Sudoměřický potok stream valley (63); Radějov, Kútky NR (79); Velká nad Veličkou, Zahrady pod Hájem NNR (80); Horní Němčí, Za lesem NM (88); Strání, Mechnáčky NM (95).

Additional material examined. Rokytnice (23), 3.vi.2008, 1 ♂ 2 ♀♀, O. Konvička lgt., D. Trávníček det. (OKZC). Štítná nad Vláří (27), 29.vi.2005, 1 spec., L. Koloničný lgt., D. Trávníček det. (LKOC). Komňa, Bučnick quarry (42), 16.v.2007, 1 ♂, D. Trávníček lgt. & det. (MJMZ). Horní Němčí, Bahulské jamy NM (89), 28.v.2008, 1 spec., L. Koloničný lgt., D. Trávníček det. (LKOC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area.
General distribution: Western Palaearctic. **Habitat preferences:** Euryecious. **Red List status:** –.

Helophorus brevipalpis Bedel, 1881

Published records. TRÁVNÍČEK (2010a): Komňa, Lom Rasová NM (44); Suchov (86); Strání, Mechnáčky NM (95, 96).

Additional material examined. Rokytnice (23), 3.vi.2008, 1 ♀, O. Konvička lgt., D. Trávníček det. (OKZC). Štítná nad Vláří, Zelenský potok stream (25), 29.vi.2005, 1 spec., L. Koloničný lgt., D. Trávníček det. (LKOC). Štítná nad Vláří (27), 29.vi.2005, 1 spec., L. Koloničný lgt., D. Trávníček det. (LKOC). Komňa, Bučnick quarry (42), 16.v.2007, 1 ♀, D. Trávníček lgt. & det. (MJMZ). Korytná, Lubná pond (46), 5.vii.2001, 1 spec., P. Kment & M. Horsák lgt., M. Fikáček det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, common. **General distribution:** Western Palaearctic; introduced into North America. **Habitat preferences:** Euryecious. **Red List status:** –.

Helophorus dorsalis (Marsham, 1802)

Published records. TRÁVNÍČEK (2010a): Nezdenice (17); Komňa, Lom Rasová NM (44); Žitková, Pod Žitkovským vrchem NR (54); Velká nad Veličkou, Zahrady pod Hájem NNR (80); Suchov (86); Strání, Mechnáčky NM (95, 96).

Additional material examined. Štítná nad Vláří (27), 29.vi.2005, 2 spec., L. Koloničný lgt., D. Trávníček det. (LKOC). Komňa, Bučnick quarry (42), 16.v.2007, 2 ♂♂, D. Trávníček lgt. & det. (MJMZ). Horní Němčí, Za lesem NM (88), 29.v.2008, 2 spec. J. Stanovský lgt., D. Trávníček det. (LKOC). Horní Němčí, Bahulské jamy NM (89), 1.vii.2008, 4 spec., L. Koloničný lgt., D. Trávníček det. (LKOC). Horní Němčí, Dolnoněmčanské louky NR (90), 2.vii.2008, L. Koloničný lgt., D. Trávníček det. (LKOC). Strání, Straňanská nádrž reservoir (109), 10.vii.1998, 1 spec., P. Kment lgt., D. Trávníček (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common, distributed throughout the area. **General distribution:** European. **Habitat preferences:** Detritophilous, euryecious. **Red List status:** –.

***Helophorus granularis* (Linnaeus, 1761)**

Published record. TRÁVNÍČEK (2010a): Strání, Mechnáčky NM (95).

Distribution and frequency in the Bílé Karpaty PLA: Recorded at only one locality. **General distribution:** Palaearctic. **Habitat preferences:** Euryecious. **Red List status:** –.

Comments. Apparently rare in the Bílé Karpaty PLA, although it is common elsewhere in the Czech Republic.

***Helophorus griseus* Herbst, 1793**

Published records. TRÁVNÍČEK (2010a): Sudoměřice, Sudoměřický potok stream valley (63); Suchov (86); Horní Němčí, Za lesem NM (88); Strání, Mechnáčky NM (95, 96).

Distribution and frequency in the Bílé Karpaty PLA: Found mainly in the central and southern parts of the area; more records may be anticipated with a continuing sampling effort. **General distribution:** Western Palaearctic. **Habitat preferences:** Euryecious. **Red List status:** –.

***Helophorus minutus* Fabricius, 1775**

Published record. TRÁVNÍČEK (2010a): Strání, Mechnáčky NM (96).

Additional material examined. Tvarožná Lhota, Lučina (72), 14.vii.1998, 1 spec., P. Kment lgt., D. Trávniček det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Recorded at only two localities. **General distribution:** Western Palaearctic. **Habitat preferences:** Euryecious. **Red List status:** –.

Comments. Apparently rare in the Bílé Karpaty PLA, although it is common elsewhere in the Czech Republic.

***Helophorus montenegrinus* Kuwert, 1885**

Published records. TRÁVNÍČEK (2010a): Slavičín (19); Komňa, Lom Rasová NM (44); Suchov (86); Strání, Mechnáčky NM (95, 96).

Additional material examined. Rokytnice (23), 3.vi.2008, 1 ♂ 1 ♀, O. Konvička lgt., D. Trávniček det. (OKZC). Štítná nad Vláří (27), 29.vi.2005, 2 spec., L. Koloničný lgt., D. Trávniček det. (LKOC). Komňa, Bučnick quarry (42), 16.v.2007, 1 ♀, D. Trávniček lgt. & det. (MJMZ). Strání, Hrnčárky NM (50), 2.vii.2008, 1 spec., L. Koloničný lgt., D. Trávniček det. (LKOC). Javorník (83), 8.vi.2008, 1 ♀, O. Konvička lgt., D. Trávniček det. (OKZC). Horní Němčí, Za lesem NM (88), 1.vii.2008, 2 spec. L. Koloničný lgt., D. Trávniček det. (LKOC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Distributed from the Czech Republic across eastern Austria,

Water beetles (Coleoptera: Gyrinidae, Haliplidae, Noteridae, Dytiscidae, Helophoridae, Hydrophilidae)

Slovakia, Hungary and the Balkans to Turkey and the Caucasus. **Habitat preferences:** Detritophilous. **Red List status:** –.

Helophorus nanus Sturm, 1836

Published records. TRÁVNÍČEK (2010a): Sudoměřice, Sudoměřický potok stream valley (63); Radějov, Kútky NR (78).

Distribution and frequency in the Bílé Karpaty PLA: Uncommon, found at only two sites. **General distribution:** Palaearctic. **Habitat preferences:** Detritophilous. **Red List status:** –.

Helophorus obscurus Mulsant, 1844

Published record. TRÁVNÍČEK (2010a): Horní Němčí, Za lesem NM (88).

Distribution and frequency in the Bílé Karpaty PLA: Found at only one locality; continuing sampling effort may probably result in more records from the area. **General distribution:** European. **Habitat preferences:** Euryecious, detritophilous. **Red List status:** –.

Comments. The occurrence of the species at the above-cited locality is remarkable because of its high altitude; *H. obscurus* generally prefers lowland habitats in the Czech Republic.

Helophorus redtenbacheri Kuwert, 1885 (VU)

Published record. TRÁVNÍČEK (2010a): Strání, Mechnáčky NM (95).

Distribution and frequency in the Bílé Karpaty PLA: Found at only one site, rare. **General distribution:** Western Palaearctic. **Habitat preferences:** Detritophilous. **Red List status:** VU.

Family HYDROPHILIDAE

Anacaena globulus (Paykull, 1798)

Published records. TRÁVNÍČEK (2010a): Nezdenice (17); Suchov, Kazivec stream (34); Březová, Kalábová NM (48); Žitková, Pod Žitkovským vrchem NR (54); Velká nad Veličkou, right tributary of Velička stream (81). KRŮPALOVÁ *et al.* (2011): Valašské Klobouky, Bílé potoky NR (103).

Additional material examined. Petrůvka, Kladenska springs (2), 8.v.2010, 1 spec., M. Straka lgt. & det. (MSHC). Valašské Klobouky (7), 10.vi.1997, 1 spec., D. Trávníček lgt. & det. (MJMZ). Štítná nad Vláří, Zelenský potok stream (25), 4.ix.2010, 1 spec., M. Straka lgt. & det. (MSHC). Pitín, Olšava stream (28), 8.v.2010, 1 spec., M. Straka lgt. & det. (MSHC). Bzová (29), 11.vi.2004, 3 spec., D. Trávníček lgt. & det. (MJMZ). Komňa, Koménka stream (43), 15.v.2010, 2 spec., M. Straka lgt. & det. (MSHC). Lopeník, Nivnička stream (45), 15.v.2010, 2 spec., M. Straka lgt. & det. (MSHC). Březová, Hradecký járek stream (47), 15.v.2010, 1 spec., M. Straka lgt. & det. (MSHC). Petrov, Radějovka stream (60), 4.6.2009, 3 spec., M. Straka lgt. & det. (MSHC). Tvarožná Lhota, Járkovec stream (71), 25.ix.2010, 4 spec., M. Straka lgt. & det. (MSHC). Javorník-Petruchovy Mlýny, Velička stream (85), 25.ix.2010, 1 spec., M. Straka lgt. & det. (MSHC). Strání-Květná, Svinárský potok stream (97), 15.v.2010, 1 spec., M. Straka lgt. & det. (MSHC). Luhačovice, sifting of warp (99), 2.vi.2010, 1 ♀, O. Konvička lgt., D. Trávníček det. (OKZC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** Western Palaearctic. **Habitat preferences:** Detritophilous, crenophilous, potamal. **Red List status:** –.

***Anacaena limbata* (Fabricius, 1792)**

Published records. TRÁVNÍČEK (2010a): Nezdenice (17); Slavičín (19); Vrbětice (22); Radějov, Kútky NR (78); Velká nad Veličkou, Zahrady pod Hájem NNR (80).

Additional material examined. Suchov, Kazivec stream (34), 15.v.1998, 2 spec., P. Kment lgt., D. Trávníček det. (NMPC). Javorník (83), 8.vi.2008, 2 spec., O. Konvička lgt., D. Trávníček det. (OKZC). Horní Němčí (108), 15.v.1998, 1 spec., P. Kment lgt., D. Trávníček det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area. **General distribution:** Palaearctic. **Habitat preferences:** Detritophilous, euryecious. **Red List status:** –.

***Anacaena lutescens* (Stephens, 1829)**

Published records. TRÁVNÍČEK (2010a): Nezdenice (17); Slavičín (19); Vrbětice (22); Suchov (35); Komňa, Lom Rasová NM (44); Březová, Kalábová NM (48); Žitková, Pod Žitkovským vrchem NR (54); Sudoměřice, Sudoměřický potok stream valley (63); Radějov, Kútky NR (78, 79); Velká nad Veličkou, Zahrady pod Hájem NNR (80); Horní Němčí, Za lesem NM (88); Strání, Mechnáčky NM (95, 96).

Additional material examined. Velká nad Veličkou, Zahrady pod Hájem NNR (80), 12.v.2011, 1 spec., O. Konvička lgt., D. Trávníček det. (OKZC). Valašské Klobouky (102), 30.vi.1999, 1 ♀, P. Kment lgt., D. Trávníček det. (NMPC). Javorník, Machová NR (114), 14.v.1998, 2 spec., P. Kment lgt., D. Trávníček det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Found throughout the area, more common than *Anacaena limbata*. **General distribution:** Palaearctic. **Habitat preferences:** Euryecious. **Red List status:** –.

***Berosus frontifoveatus* Kuwert, 1888**

(VU)

Material examined. Hrubá Vrbka, light trapping (77), 25.vii.2007, 1 ♀, O. Konvička lgt., D. Trávníček det. (OKZC).

Distribution and frequency in the Bílé Karpaty PLA: Found at only one site in the south of the area, rare. **General distribution:** Palaearctic. **Habitat preferences:** Detritophilous. **Red List status:** VU.

***Berosus signaticollis* (Charpentier, 1825)**

Published records. TRÁVNÍČEK (2010a): Sudoměřice, Sudoměřický potok stream valley (63).

Distribution and frequency in the Bílé Karpaty PLA: Found at only one locality in the south of the area but additional records may be anticipated with a continuing sampling effort – the species is generally common in the Czech Republic. **General distribution:** Western Palaearctic. **Habitat preferences:** Detritophilous. **Red List status:** –.

Water beetles (Coleoptera: Gyrinidae, Haliplidae, Noteridae, Dytiscidae, Helophoridae, Hydrophilidae)

Cercyon castaneipennis Vorst, 2009

Material examined. Horní Němčí, Drahy NR (36), 15.v.1998, 1 spec., P. Kment lgt., D. Trávníček det. (NMPC); 29.vi.2008, 1 ♂, O. Konvička lgt., D. Trávníček det. (OKZC). Strání, Mechnáčky NM (96), 7.v.2007, 2 ♂♂ 2 ♀♀, P. Komzák leg., M. Straka det. (PKBC). Nedašov, Kaňoury NM (104), 3.vii.1999, 2 spec., M. Horsák lgt., D. Trávníček det. (MHBC).

Distribution and frequency in the Bílé Karpaty PLA: Known from only three sites. **General distribution:** Western Palaearctic. **Habitat preferences:** Coprophilous, saprophilous. **Red List status:** –.

Comments. This species has recently been recognized and separated from the very similar *C. obsoletus* (Gyllenhal, 1808) by VORST (2009). The occurrence of *C. obsoletus* in the Czech Republic is questionable, and a revision of collection specimens is needed. *C. castaneipennis* may be more common in the Bílé Karpaty PLA; its apparent rarity is probably due to an insufficient sampling effort.

Cercyon haemorrhoidalis (Fabricius, 1775)

Material examined. Hrubá Vrbka, light trapping (77), 30.x.2009, 1 spec., O. Konvička lgt., D. Trávníček det. (OKZC).

Distribution and frequency in the Bílé Karpaty PLA: Found at only one locality in the south of the area but additional records may be anticipated with a continuing sampling effort - the species is rather common across the Czech Republic. **General distribution:** Palaearctic, introduced and widely distributed in North America, Australia, New Zealand, the Philippines, and Argentina. **Habitat preferences:** Coprophilous, saprophilous. **Red List status:** –.

Cercyon impressus (Sturm, 1807)

Material examined. Valašské Klobouky, Javorůvky NR (6), 20.v.2006, 4 spec., P. Komzák leg., M. Straka det. (PKBC). Horní Němčí, Drahy NR (36), 30.vi.2001, 1 spec., P. Kment & H. Omesová lgt., M. Fikáček det. (NMPC). Valašské Klobouky, Javorůvky NR (101), 2.vii.1999, 1 spec., P. Kment lgt., D. Trávníček det. (MHBC). Nedašov, Kaňoury NM (104), 3.vii.1999, 1 spec., 2 m*m*, M. Horsák lgt., D. Trávníček det. (MHBC).

Distribution and frequency in the Bílé Karpaty PLA: Found at only four localities in the area, additional records may be anticipated with continuing sampling effort in excrements and dead organic matter of plant or animal origin. **General distribution:** Palaearctic. **Habitat preferences:** Coprophilous, saprophilous. **Red List status:** –.

Cercyon laminatus Sharp, 1873

Material examined. Hrubá Vrbka, light trapping (77), 8.vii.2007, 4 spec., 25.vii.2007, 1 spec., O. Konvička lgt., D. Trávníček det. (OKZC). Hrubá Vrbka, light trapping (77), 23.vii.2007, 1 spec., J. Vávra lgt., M. Fikáček det. (JVOC). Hrubá Vrbka, light trapping (77), 26.vi.2010, 1 spec., E. Ezer lgt., D. Trávníček det. (EEZC).

Distribution and frequency in the Bílé Karpaty PLA: Found at only one site in the south of the area. **General distribution:** Eastern Asia, introduced to the western

Palaeartic Region in the middle of the 20th century. **Habitat preferences:** Coprophilous, saprophilous. **Red List status:** –.

Comments. As the species is quite common throughout the Czech Republic, its rarity in the Bílé Karpaty PLA is probably due to an insufficient sampling effort in excrements and dead organic matter of plant or animal origin.

***Cercyon lateralis* (Marsham, 1802)**

Material examined. Nedašov, Pod Cigánem NM (106), 6.ix.2005, 1 spec., I. Malenovský lgt., M. Fikáček det. (NMPC). Kněždub, Čertoryje NNR (111), 13.v.1998, 2 spec., P. Kment & P. Šmarda lgt., D. Trávníček det., (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Found at only two sites in the area. **General distribution:** Palaeartic, introduced and widespread also in North America. **Habitat preferences:** Coprophilous, saprophilous. **Red List status:** –.

Comments. As the species is quite common throughout the Czech Republic, its rarity in the Bílé Karpaty PLA is probably due to an insufficient sampling effort in excrements and dead organic matter of plant or animal origin.

***Cercyon marinus* Thomson, 1853**

Material examined. Hrubá Vrbka, light trapping (77), 8.vii.2007, 1 spec., O. Konvička lgt., D. Trávníček det. (OKZC).

Distribution and frequency in the Bílé Karpaty PLA: Recorded at only one locality in the south of the area, but probably not rare. **General distribution:** Holarctic. **Habitat preferences:** Semiaquatic, detritophilous. **Red List status:** –.

***Cercyon nigriceps* (Marsham, 1802)**

(VU)

Material examined. Hrubá Vrbka, light trapping (77), 23.vii.2007, 1 spec., J. Vávra lgt., M. Fikáček det. (JVOC).

Distribution and frequency in the Bílé Karpaty PLA: Recorded at a single locality in the south of the area, rare. **General distribution:** Cosmopolitan. **Habitat preferences:** Coprophilous, saprophilous. **Red List status:** VU.

***Cercyon pygmaeus* (Illiger, 1801)**

Material examined. Nedašova Lhota, Paseky, sifting (10), 22.ix.2009, 1 spec., O. Konvička lgt., D. Trávníček det. (OKZC).

Distribution and frequency in the Bílé Karpaty PLA: Recorded at a single locality in the north of the area, but probably more common. **General distribution:** Palaeartic. **Habitat preferences:** Coprophilous, saprophilous. **Red List status:** –.

Comments. The small number of records is probably due to an insufficient sampling effort.

Water beetles (Coleoptera: Gyrinidae, Haliplidae, Noteridae, Dytiscidae, Helophoridae, Hydrophilidae)

***Cercyon quisquilius* (Linnaeus, 1761)**

Material examined. Hrubá Vrbka, light trapping (77), 26.vi.2010, 1 spec., E. Ezer lgt., D. Trávníček det. (OKZC).

Distribution and frequency in the Bílé Karpaty PLA: Recorded at a single locality in the south of the area, but undoubtedly more common. **General distribution:** Palaearctic, introduced and widespread also in the Nearctic and Neotropical Regions, Australia, and Hawaii. **Habitat preferences:** Coprophilous, saprophilous. **Red List status:** –.

Comments. The small number of records is probably due to an insufficient sampling effort.

***Cercyon sternalis* Sharp, 1918**

Material examined. Lopeník, Mechnáč (110), 29.iv.2000, 1 spec, M. Horsák lgt., D. Trávníček det. (MHBC).

Distribution and frequency in the Bílé Karpaty PLA: Recorded at only one site in the central part of the area, rare. **General distribution:** Western Palaearctic. **Habitat preferences:** Detritophilous, semiaquatic. **Red List status:** –.

***Cercyon unipunctatus* (Linnaeus, 1758)**

Material examined. Hrubá Vrbka, light trapping (77), 1.v.2007, 1 spec., 23.vii.2007, 1 spec., J. Vávra lgt., M. Fikáček det. (JCOC); 25.vii.2007, 2 spec., O. Konvička lgt., D. Trávníček det. (OKZC).

Distribution and frequency in the Bílé Karpaty PLA: Recorded at only one site in the south of the area. **General distribution:** Palaearctic Region, introduced into North America. **Habitat preferences:** Coprophilous, saprophilous. **Red List status:** –.

Comments. The species is quite common in the Czech Republic; further sampling of decaying plant matter and dung in the Bílé Karpaty PLA would probably result in more records.

***Cercyon ustulatus* (Preyssler, 1790)**

Published record. TRÁVNÍČEK (2010a): Komňa, Lom Rasová NM (44).

Additional material examined. Strážnice, Radějovka stream (64), 4.vi.2009, 1 spec., M. Straka lgt. & det. (MSHC). Kněždub, Kejda pond (70), 14.vii.1998, 1 spec., P. Kment lgt., D. Trávníček det. (NMPC). Luhačovice, sifting of warp (99), 2.vi.2010, 2 spec., O. Konvička lgt., D. Trávníček det. (OKZC). Strání, Straňanská nádrž reservoir (109), 10.vii.1998, 1 spec., P. Kment lgt., D. Trávníček det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area. **General distribution:** Palaearctic. **Habitat preferences:** Detritophilous, semiaquatic. **Red List status:** –.

***Chaetarthria seminulum* (Herbst, 1797)**

Material examined. Strání, Hrnčárky NM (50), ix.2006, 2 spec., J. Sychra lgt. & det. (JSBC). Luhačovice, sifting of warp (99), 2.vi.2010, 1 ♀, O. Konvička lgt., D. Trávníček det. (OKZC).

Distribution and frequency in the Bílé Karpaty PLA: Found at two sites in the area.

General distribution: Europe and Turkey. **Habitat preferences:** Semiaquatic, detritophilous. **Red List status:** –.

Comments. Probably overlooked due to its small size, more sampling effort is needed.

***Coelostoma orbiculare* (Fabricius, 1775)**

Published records. TRÁVNÍČEK (2010a): Horní Němčí, Za lesem NM (88); Slavičín (19); Strání, Mechnáčky NM (96); Vrbětice (22).

Additional material examined. Lopeník, Hrubý Mechnáč (51), vii.2005, 1 spec., J. Bojková lgt., J. Sychra det. (JSBC). Radějov (68), 11.vii.1998, 1 spec., P. Kment lgt., D. Trávníček det. (NMPC). Kněždub, Kejda pond (70), 14.vii.1998, 1 spec., P. Kment lgt., D. Trávníček det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, common in suitable habitats. **General distribution:** Palaearctic. **Habitat preferences:** Detritophilous, euryecious. **Red List status:** –.

***Cryptopleurum minutum* (Fabricius, 1775)**

Material examined. Nedašov, Kaňoury NM (104), 3.vii.1999, 2 spec., M. Horsák lgt., D. Trávníček det. (MHBC). Lipov (107), 17.iv.2010, 1 spec., O. Konvička lgt., D. Trávníček det. (OKZC). Kněždub, Čertoryje NNR (111), 7.x.2010, 1 spec., O. Konvička lgt., D. Trávníček det. (OKZC). Tvarožná Lhota (112), 13.v.1998, 2 spec., P. Kment & P. Šmarda lgt., D. Trávníček det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Scattered throughout the area, common in suitable habitats. **General distribution:** Palaearctic, introduced and widely distributed also in the Nearctic Region. **Habitat preferences:** Coprophilous, saprophilous. **Red List status:** –.

***Cymbiodyta marginella* (Fabricius, 1792)**

Published records. TRÁVNÍČEK (2010a): Sudoměřice, Sudoměřický potok stream valley (63); Radějov, Kútky NR (78); Strání, Mechnáčky NM (96).

Distribution and frequency in the Bílé Karpaty PLA: Uncommon, found at three sites in the southern part of the area. **General distribution:** Western Palaearctic. **Habitat preferences:** Detritophilous. **Red List status:** –.

***Enochrus bicolor* (Fabricius, 1792)**

Material examined. Hrubá Vrbka, light trapping (77), 8.vii.2007, 1 ♂, O. Konvička lgt., D. Trávníček det. (OKZC).

Additional material examined. Hrubá Vrbka, light trapping (77), 23.vii.2007, 1 spec., J. Vávra lgt., M. Fikáček det. (JVOC).

Water beetles (Coleoptera: Gyrinidae, Haliplidae, Noteridae, Dytiscidae, Helophoridae, Hydrophilidae)

Distribution and frequency in the Bílé Karpaty PLA: Apparently rare, recorded at a single locality in the south of the area. **General distribution:** Palaearctic. **Habitat preferences:** Detritophilous. **Red List status:** –.

Enochrus fuscipennis (Thomson, 1884) (NT)

Published record. TRÁVNÍČEK (2010a): Radějov, Kútky NR (78).

Distribution and frequency in the Bílé Karpaty PLA: Rare, found at a single site in the south of the area. **General distribution:** Western Palaearctic. **Habitat preferences:** Detritophilous, acidophilous. **Red List status:** NT.

Comments. BOUKAL *et al.* (2007) could not decide whether the species should be classified in some of the categories of the Red List of threatened animals of the Czech Republic. TRÁVNÍČEK (2010b) investigated additional material and classified it as near-threatened.

Enochrus quadripunctatus (Herbst, 1797)

Published records. TRÁVNÍČEK (2010a): Sudoměřice, Sudoměřický potok stream valley (63); Radějov, Kútky NR (79).

Additional material examined. Sidonie, Sidonie NR, light trapping (31), 22.vi.2008, 1 ♀, O. Konvička lgt., D. Trávníček det. (OKZC). Tvarožná Lhota, Lučina (72), 14.vii.1998, 1 ♂, P. Kment lgt., D. Trávníček det. (NMPC). Javorník, Machová NR (114), 14.v.1998, 1 ♂, P. Kment lgt., D. Trávníček det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Found at only five sites in the area; probably not as common as in most other regions of the Czech Republic. **General distribution:** Palaearctic. **Habitat preferences:** Detritophilous, euryecious. **Red List status:** –.

Enochrus testaceus (Fabricius, 1801)

Published record. TRÁVNÍČEK (2010a): Slavičín (19).

Distribution and frequency in the Bílé Karpaty PLA: Found at a single site in the northern part of the area; probably not as common as in most other regions of the Czech Republic. **General distribution:** Palaearctic. **Habitat preferences:** Detritophilous, euryecious. **Red List status:** –.

Helochares lividus (Forster, 1771) (EN)

Published record. TRÁVNÍČEK (2010a): Radějov, Kútky NR (78).

Distribution and frequency in the Bílé Karpaty PLA: Rare, recorded at a single locality. **General distribution:** Western Palaearctic. **Habitat preferences:** Detritophilous. **Red List status:** EN.

Comments. The species has recently been known from only one locality in Bohemia and three localities in Moravia, all situated in warmer areas (BOUKAL *et al.* 2007).

***Helochaers obscurus* (O. F. Müller, 1776)**

Published records. TRÁVNÍČEK (2010a): Slavičín (19); Vrbětice (22); Suchov (35); Sudoměřice, Sudoměřický potok stream valley (63); Horní Němčí, Za lesem NM (88); Strání, Mechnáčky NM (95, 96).

Additional material examined. Tvarožná Lhota, Lučina (72), 14.vii.1998, 1 spec., P. Kment lgt., D. Trávniček det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area; generally one of the most common species of the family in the Czech Republic. **General distribution:** Western Palaearctic. **Habitat preferences:** Detritophilous, euryecious. **Red List status:** –.

***Hydrobius fuscipes* (Linnaeus, 1758)**

Published records. TRÁVNÍČEK (2010a): Nezdenice (17); Slavičín (19); Vrbětice (22); Komňa, Lom Rasová NM (44); Březová, Kalábová NM (48); Žitková, Pod Žitkovským vrchem NR (54); Sudoměřice, Sudoměřický potok stream valley (63); Velká nad Veličkou, Zahrady pod Hájem NNR (80); Horní Němčí, Za lesem NM (88); Strání, Mechnáčky NM (96).

Additional material examined. Slavičín (20), 10.iv.2008, 1 spec., O. Konvička lgt., D. Trávniček det. (OKZC). Rokytnice (23), 3.vi.2008, 1 spec., O. Konvička lgt., D. Trávniček det. (OKZC); Suchov, Kazivec stream (34), 25.iv.2006, 1 spec., O. Konvička lgt., D. Trávniček det. (OKZC). Horní Němčí, Uvezené NM (38), 14.viii.2003, 1 spec., D. Trávniček lgt. & det. (MJMZ). Komňa, Bučnick quarry (42), 16.v.2007, 1 spec., D. Trávniček lgt. & det. (MJMZ). Javorník (83), 8.vi.2008, 1 spec., O. Konvička lgt., D. Trávniček det. (OKZC). Javorník, Machová NR (114), 14.v.1998, 1 spec., P. Kment lgt., D. Trávniček det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Fairly common throughout the area. **General distribution:** Holarctic. **Habitat preferences:** Detritophilous, euryecious. **Red List status:** –.

***Hydrochara caraboides* (Linnaeus, 1758)**

Published records. TRÁVNÍČEK (2010a): Komňa, Lom Rasová NM (44); Sudoměřice, Sudoměřický potok stream valley (63); Radějov, Kútky NR (79); Horní Němčí, Za lesem NM (88); Strání, Mechnáčky NM (95).

Distribution and frequency in the Bílé Karpaty PLA: Known from scattered records throughout the area, in suitable habitats not rare. **General distribution:** Palaearctic. **Habitat preferences:** Detritophilous, euryecious. **Red List status:** –.

***Hydrochara flavipes* (Steven, 1808)**

Published record. TRÁVNÍČEK (2010a): Komňa, Lom Rasová NM (44).

Additional material examined. Tvarožná Lhota, Lučina (72), 15.v.1998, 1 spec., P. Kment lgt., D. Trávniček det. (NMPC). Horní Němčí (108), 15.v.1998, 1 spec., P. Kment lgt., D. Trávniček det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Found at a single site, rarer than the previous species. **General distribution:** Western Palaearctic. **Habitat preferences:** Detritophilous, euryecious. **Red List status:** –.

Water beetles (Coleoptera: Gyrinidae, Haliplidae, Noteridae, Dytiscidae, Helophoridae, Hydrophilidae)

***Hydrophilus piceus* (Linnaeus, 1758)**

(CR)

Published record. TRÁVNÍČEK (2010a): Komňa, Lom Rasová NM (44).

Distribution and frequency in the Bílé Karpaty PLA: Found at a single locality, rare.

General distribution: Western Palaearctic. **Habitat preferences:** Detritophilous. **Red List status:** CR.

Comments. The species is generally rare in the Czech Republic, more findings come only from the Třeboňsko Protected Landscape Area and southern Moravia (BOUKAL *et al.* 2007). The above-cited record is remarkable because of a high altitude which most likely surpasses all other recent records of *H. piceus* in the Czech Republic.

***Laccobius bipunctatus* (Fabricius, 1775)**

Published records. TRÁVNÍČEK (2010a): Nezdenice (17); Slavičín (19); Vrbětice (22); Suchov (35); Březová, Kalábová NM (48); Žitková (53); Žitková, Pod Žitkovským vrchem NR (54); Sudoměřice, Sudoměřický potok stream valley (63); Radějov, Kútky NR (78); Horní Němčí, Za lesem NM (88); Strání, Mechnáčky NM (95, 96). **Additional material examined.** Bojkovice, Koměnka stream (18), 8.v.2010, 1 spec., 1 ♂, M. Straka lgt. & det. (MSHC). Strání, Hrnčárky NM (50), 2.ix.2005, 3 spec., 2 ♂♂ 1 ♀, M. Straka lgt., J. Klečka det. (MSHC); Radějov, Kútky NR (78), 11.vii.1998, 1 spec., P. Kment lgt., D. Trávníček det. (NMPC). 2.vii.2008, 3 spec., L. Koloničný lgt., D. Trávníček det. (LKOC). Strání, Mechnáčky NM (96), 11.ix.2009, 3 spec., L. Koloničný lgt., D. Trávníček det. (LKOC). Javorník, Machová NR (114), 14.v.1998, 1 ♂, P. Kment lgt., D. Trávníček det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Fairly common throughout the area. **General distribution:** Western Palaearctic. **Habitat preferences:** Euryecious. **Red List status:** –.

***Laccobius gracilis* Motschulsky, 1855**

(VU)

Published records. TRÁVNÍČEK (2010a): Sudoměřice, Sudoměřický potok stream valley (63).

Distribution and frequency in the Bílé Karpaty PLA: Found unusually abundant at a single locality in the southern part of the area. **General distribution:** A Mediterranean species reaching into central Europe in the north; distributed probably as far as to Central Asia in the east. **Habitat preferences:** Silicophilous, preferring exposed sites with a sandy bottom and sparse vegetation. **Red List status:** VU.

***Laccobius minutus* (Linnaeus, 1758)**

Published records. TRÁVNÍČEK (2010a): Slavičín (19); Vrbětice (22); Komňa, Lom Rasová NM (44); Sudoměřice, Sudoměřický potok stream valley (63); Kněždub, Kejda pond (70); Velká nad Veličkou, Zahrady pod Hájem NNR (80); Strání, Mechnáčky NM (95).

Additional material examined. Tvarožná Lhota, Lučina (72), 14.vii.1998, 1 spec., P. Kment lgt., D. Trávníček det. (NMPC). Tvarožná Lhota, Lučina (72), 30.viii.2005, 2 spec., 1 ♂ 1 ♀, J. Sychra lgt. & det. (JSBC).

Distribution and frequency in the Bílé Karpaty PLA: Known from scattered records throughout the area, common in suitable habitats. **General distribution:** Northern Palaearctic. **Habitat preferences:** Detritophilous, euryecious. **Red List status:** –.

***Laccobius obscuratus* Rottenberg, 1874 (EN)**

Published records. TRÁVNÍČEK (2010a): Březová, Kalábová NM (48); Velká nad Veličkou, Zahrady pod Hájem NNR (80).

Additional material examined. Strání, Hrnčárky NM (50), 2.vii.2008, 1 ♀, L. Koloničný lgt., D. Trávníček det. (LKOC).

Distribution and frequency in the Bílé Karpaty PLA: Recorded at three sites, rare. **General distribution:** Western Palaearctic. **Habitat preferences:** Crenophilous, semiaquatic. **Red List status:** EN.

***Laccobius simulatrix* Orchymont, 1932 (CR)**

Published record. TRÁVNÍČEK (2010a): Nezdenice (17).

Distribution and frequency in the Bílé Karpaty PLA: Very rare, found at a single site. **General distribution:** Eastern Europe, Near East and Central Asia. **Habitat preferences:** Silicophilous, inhabiting edges of exposed, standing or slow-flowing waters. **Red List status:** CR.

Comments. The recent occurrence of the species in the Czech Republic has been known from only three localities, all situated in southern and south-eastern Moravia (TRÁVNÍČEK 2010c).

***Laccobius sinuatus* Motschulsky, 1849**

Published record. TRÁVNÍČEK (2010a): Radějov, Kútky NR (79).

Distribution and frequency in the Bílé Karpaty PLA: Rare, found at only one site. **General distribution:** European. **Habitat preferences:** Euryecious. **Red List status:** –.

***Laccobius striatulus* (Fabricius, 1801)**

Published records. TRÁVNÍČEK (2010a): Komňa, Lom Rasová NM (44); Žitková (53); Sudoměřice, Sudoměřický potok stream valley (63); Strání, Mechnáčky NM (95). KŘOUPALOVÁ *et al.* (2011): Valašské Klobouky, Bílé potoky NR (103).

Additional material examined. Záhorovice, Kladenka stream (15), 8.v.2010, 2 spec., M. Straka lgt. & det. (MSHC). Štítná nad Vláří (27), 29.vi.2005, 2 spec., L. Koloničný lgt., D. Trávníček det. (LKOC). Tvarožná Lhota, Lučina (72), 13.v.1998, 1 spec., P. Kment lgt., D. Trávníček det. (NMPC). Lipov, Kuželovský potok stream (73), 25.ix.2010, 2 spec., M. Straka lgt. & det. (MSHC). Hroznová Lhota, Velička stream (74), 25.ix.2010, 5 spec., M. Straka lgt. & det. (MSHC). Hrubá Vrbka, light trapping (77), 23.vii.2007, 1 spec., J. Vávra lgt., M. Fikáček det. (JVOC). Popov, Vlára stream (105), 3.viii.2011, 1 ♂, O. Konvička lgt. D. Trávníček det. (OKZC). Javorník, Velička stream (113), 18.iv.2000, 1 ♂, P. Kment lgt., D. Trávníček det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Recorded throughout the area, common. **General distribution:** Western Palaearctic. **Habitat preferences:** Euryecious. **Red List status:** –.

Water beetles (Coleoptera: Gyrinidae, Haliplidae, Noteridae, Dytiscidae, Helophoridae, Hydrophilidae)

***Limnoxenus niger* (Gmelin, 1790) (NT)**

Published records. TRÁVNÍČEK (2010a): Kněždub, Kejda pond (70); Komňa, Lom Rasová NM (44); Sudoměřice, Sudoměřický potok stream valley (63).

Distribution and frequency in the Bílé Karpaty PLA: Found in low numbers of specimens at three sites. **General distribution:** Western Palaearctic. **Habitat preferences:** Euryecious. **Red List status:** NT.

***Megasternum concinnum* (Marsham, 1802)**

Material examined. Hrubá Vrbka, light trapping (77), 30.x.2009, 1 spec., O. Konvička lgt., D. Trávníček det. (OKZC). Luhačovice, sifting of warp (99), 2.vi.2010, 1 spec., O. Konvička lgt., D. Trávníček det. (OKZC).

Distribution and frequency in the Bílé Karpaty PLA: Found at two sites, but undoubtedly under-recorded. **General distribution:** Palaearctic, introduced and widespread also in the Nearctic and Neotropical Regions, Australia, and Hawaii. **Habitat preferences:** Coprophilous, saprophilous. **Red List status:** -.

Comments. The small number of records is probably due to an insufficient sampling effort.

***Sphaeridium lunatum* Fabricius, 1792**

Material examined. Horní Němčí, Drahy NR (36), 15.v.1998, 1 ♂, P. Kment lgt., D. Trávníček det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Known from a single record in the south-western part of the area, probably under-recorded due to an insufficient sampling effort in excrements. **General distribution:** Palaearctic, introduced to the Nearctic Region. **Habitat preferences:** Coprophilous. **Red List status:** -.

***Sphaeridium marginatum* Fabricius, 1787**

Material examined. Horní Němčí, Drahy NR (36), 15.v.1998, 1 spec., J. Nerudová & M. Horsák lgt., M. Fikáček det. (MHBC). Nedašov, Kaňoury NM (104), 3.vii.1999, 2 spec., Horsák lgt., M. Fikáček det. (MHBC & NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Found at two sites, but undoubtedly more common. **General distribution:** Palaearctic. **Habitat preferences:** Coprophilous. **Red List status:** -.

Comments. The small number of records is probably due to an insufficient sampling effort in excrements.

***Sphaeridium scarabaeoides* (Linnaeus, 1758)**

Material examined. Horní Němčí, Drahy NR (36), 15.v.1998, 1 ♂, J. Nerudová & M. Horsák lgt., M. Fikáček det. (MHBC); 15.v.1998, 2 ♀♀, P. Kment lgt., D. Trávníček det. (NMPC). Hrubá Vrbka, light trapping (77), 30.x.2009, 3 ♀♀, O. Konvička lgt., D. Trávníček det. (OKZC).

Distribution and frequency in the Bílé Karpaty PLA: Found at only two sites, but undoubtedly more common and probably under-recorded. **General distribution:** Holarctic, introduced to the Afrotropical Region. **Habitat preferences:** Coprophilous. **Red List status:** –.

Comments. The small number of records is probably due to an insufficient sampling effort in excrements.

Discussion and conclusions

The water beetle fauna of the Bílé Karpaty Mts. was comparatively unknown until a recent study by TRÁVNÍČEK (2010a), which dealt mainly with water beetles inhabiting standing waters. The present study raises the number of species of adephagan and hydrophiloid water beetles known from the area to 110, including 3 spp. of Gyrinidae, 6 spp. of Haliplidae, 2 spp. of Noteridae, 45 spp. of Dytiscidae, 11 spp. of Helophoridae and 43 spp. of Hydrophilidae. The families Hydraenidae and Elmidae are treated in detail in a parallel paper by STRAKA *et al.* (2011).

Based on habitat preferences, the largest group among the water beetle fauna of the Bílé Karpaty PLA consisted of the euryecious species. Detritophilous species are also significantly represented in the material collected. The lack of larger bodies of standing water in the Bílé Karpaty is the main reason for the comparatively rare occurrence of species that prefer such sites and are quite common elsewhere in the Czech Republic, e.g. *Acilius sulcatus*, *Ilybius fenestratus*, *I. quadriguttatus*, *I. subaeneus*, *Rhantus frontalis*, and *Enochrus quadripunctatus*. Similarly, three species of the family Helophoridae, common in other regions of the Czech Republic (*Helophorus granularis*, *H. griseus*, and *H. minutus*) are also found only sporadically in the area studied. It is possible that other (generally much rarer) representatives of the genus, namely *H. montenegrinus* and *H. dorsalis*, replace the three former species in the Bílé Karpaty PLA.

Slope helocrene springs in the Bílé Karpaty Mts. are a habitat that merits more detailed discussion. Slope helocrene springs are typical of the Western Carpathian region, and because of a calcareous subsoil are often accompanied by tufa formations. Several rare species, such as *Hydroporus pubescens*, *Helochares lividus*, and *Laccobius obscuratus*, were recorded in this type of habitat.

No species of the family Hydrochidae was recorded in the area, probably due to the absence of suitable habitats. *Spercheus emarginatus* (Schaller, 1783), the only European representative of the family Spercheidae that is locally common in the Czech Republic, has not been found in the Bílé Karpaty PLA either. It is plausible that the presence of these two families is prevented by the highly calcareous character of the aquatic habitats in the White Carpathians. For the family Georissidae, only historical voucher specimens of *Georissus crenulatus* (Rossi, 1794) from the vicinity of the town of Valašské Klobouky, dating back to 1930's, are available (BOUKAL & TRÁVNÍČEK 1995). The Georissidae are easily overlooked due to their minute size and cryptic lifestyle; while the investigators remained aware of this, their recent occurrence in the area was not

confirmed. Finally, the low number of records of saprophilous and coprophilous water scavenger beetles from the subfamily Sphaeridiinae in this paper is mainly due to insufficient sampling of corresponding microhabitats in the Bílé Karpaty PLA.

The most remarkable discovery among the aquatic beetles of the Bílé Karpaty PLA is the water scavenger beetle *Laccobius simulatrix*. This population is apparently isolated at the north-western border of the species' distribution area (TRÁVNÍČEK 2010c). The record of *Helochares lividus* previously published by TRÁVNÍČEK & BOUKAL (1999) still remains one of the few recently known sites for the species in the Czech Republic (one in Bohemia, three in Moravia; BOUKAL *et al.* 2007). The pool which is part of an abandoned brick plant near the town of Slavičín (site no. 19), is quite remarkable for the syntopic occurrence of five Haliplid species.

Nineteen of the recorded species are included in the Red List of threatened invertebrates of the Czech Republic (FARKAČ *et al.* 2005, BOUKAL *et al.* 2007). Three of them are classified as critically endangered (*Hydrophilus piceus*, *Hygrotus parallellogrammus*, and *Laccobius simulatrix*), four as endangered (*Gyrinus distinctus*, *Helochares lividus*, *Hydrovatus cuspidatus*, and *Laccobius obscuratus*), eight as vulnerable (*Berosus frontifoveatus*, *Cercyon nigriceps*, *Deronectes latus*, *Dytiscus circumflexus*, *Hygrotus nigrolineatus*, *Helophorus redtenbacheri*, *Laccobius gracilis*, and *Laccophilus poecilus*), and four as near-threatened (*Enochrus fuscipennis*, *Graptodytes bilineatus*, *Helophorus arvernicus*, and *Limnoxenus niger*). This means that the Bílé Karpaty PLA is a highly valuable region with a wide range of rare and endangered water beetle species.

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Souhrn

Vodní brouci (Coleoptera: Gyrinidae, Haliplidae, Noteridae, Dytiscidae, Helophoridae, Hydrophilidae) Chráněné krajinné oblasti a biosférické rezervace Bílé Karpaty.

V článku jsou shromážděny výsledky z faunistického výzkumu vodních brouků, který byl na území Chráněné krajinné oblasti a Biosférické rezervace Bílé Karpaty prováděn v období 1994 až 2010. Nasbíraný materiál byl doplněn o údaje získané ze sbírek dalších entomologů aktivních v této oblasti. Vyhodnocený materiál pochází celkem z 114 lokalit. Recentně byl v oblasti potvrzen výskyt 3 druhů z čeledi Gyrinidae, 6 druhů z čeledi Haliplidae, 2 druhů z čeledi Noteridae, 45 druhů z čeledi Dytiscidae, 11 druhů z čeledi Helophoridae a 43 druhů z čeledi Hydrophilidae; dohromady bylo zjištěno 110 druhů vodních brouků z uvedených čeledí. Ke každému druhu je uveden kompletní přehled dříve publikovaných dat i nových nálezů na sledovaném území, který je doplněn krátkými poznámkami k jejich celkovému rozšíření, ekologii a ochraně. Na území CHKO Bílé Karpaty se vyskytuje jen málo větších vodních ploch. Z toho důvodu jsou zde poměrně vzácné druhy, které upřednostňují právě takový typ biotopů (např. *Acilius sulcatus*, *Ilybius fenestratus*, *I. quadriguttatus*, *I. subaeneus*, *Rhantus frontalis* a *Enochrus quadripunctatus*). Překvapivá je i relativní vzácnost tří druhů z čeledi Helophoridae (*Helophorus granularis*, *H. griseus* a *H. minutus*), které jinde na území České republiky patří k velmi hojným živočichům. Zdá se, že je ve zdejších podmínkách nahrazují jinde mnohem vzácnější zástupci

tohoto rodu, *H. montenegrinus* a *H. dorsalis*. Pro Západní Karpaty, kam sledovaná oblast náleží, je charakteristický hojný výskyt svahových prameništ. Díky vápenatému podloží jsou prameniště často doprovázena tvorbou pěnoveců. Několik vzácných druhů, jako *Hydroporus pubescens*, *Helochares lividus* a *Laccobius obscuratus*, bylo zjištěno právě v pěnovecových prameništích. Během průzkumu Bílých Karpat nebyl zjištěn žádný druh z čeledi Hydrochidae a stejně tak nebyl prokázán ani *Spercheus emarginatus*, jediný evropský zástupce čeledi Spercheidae. Na vině je s největší pravděpodobností absence vhodných biotopů. Překážkou těmto druhům může být i zvýšený obsah vápníku ve zdejších mokřadech. Pokud se týká čeledi Georissidae, jsou známy pouze historické dokladové exempláře druhu *Georissus crenulatus* ze 30. let minulého století z okolí Valašských Klobouků. V této práci je také prezentováno poměrně málo nálezů saprofilních a koprofilních vodomilů z podčeledi Sphaeriinae, protože sběr byl zaměřen především na mokřady a v materiálu byly úlovky, získané z exkrementů či jiného rozkládajícího se materiálu organického původu, zastoupeny jen sporadicky. K nejzajímavějším nálezům patří vodomil *Laccobius simulatrix*, jehož izolovaná populace se v Bílých Karpatech nachází na severozápadní hranici jeho areálu. Jiný vzácný vodomil, *Helochares lividus*, se v ČR kromě jedné lokality v CHKO Bílé Karpaty recentně vyskytuje pouze na dalších čtyřech místech. Pozoruhodný je rovněž výskyt hned pěti druhů z čeledi Haliplidae v jediné tůni (lokality 19, někdejší cihelna u Slavičína). Tři ze zaznamenaných druhů jsou v ČR klasifikovány jako kriticky ohrožené (*Hydrophilus piceus*, *Hygrotus parallelogrammum*), čtyři jsou považovány za ohrožené (*Gyrinus distinctus*, *Helochares lividus*, *Hydrovatus cuspidatus*), osm patří ke zranitelným (*Berosus frontifoveatus*, *Cercyon nigriceps*, *Deronectes latus*, *Dytiscus circumflexus*, *Hygrotus nigrolineatus*, *Helophorus redtenbacheri*, *Laccobius gracilis*, *Laccophilus poecilus*) a čtyři jsou hodnoceny jako téměř ohrožené (*Enochrus fuscipennis*, *Graptodytes bilineatus*, *Helophorus arvernicus*, *Limnoxenus niger*). Tyto výsledky dokládají, že z hlediska ochrany vodních brouků CHKO Bílé Karpaty patří k nejcennějším oblastem v rámci České republiky.

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Minute moss beetles and riffle beetles (Coleoptera: Hydraenidae, Elmidae) of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic)

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STRAKA M., KOMZÁK P., BOUKAL D. & TRÁVNÍČEK D. 2012: Minute moss beetles and riffle beetles (Coleoptera: Hydraenidae, Elmidae) of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic). In: MALENOVSKÝ I., KMENT P. & KONVIČKA O. (eds.): Species inventories of selected insect groups in the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic). *Acta Musei Moraviae, Scientiae biologicae* (Brno) **96(2)** (2011): 667–689. – Eighteen species of Hydraenidae and ten species of Elmidae were recorded at 89 sites in the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (south-eastern Moravia, Czech Republic) in the course of surveys in 1994–2010. Three additional species of Hydraenidae are known from the area only from historical records. *Ochthebius colveranus* Ferro, 1979 is recorded for the first time for the Czech Republic; this is a most surprising discovery, together with *Hydraena rufipes* Curtis, 1830, the finding of which has been already reported elsewhere. Moreover, we confirm the recent occurrence of *Hydraena minutissima* Stephens, 1829 and *Ochthebius metallescens* Rosenhauer, 1847 in Moravia. The complete list of published and new records from the area is supplemented by brief notes on the ecology and conservation status of each species. Two of the species recorded are classified as endangered (*Hydraena pulchella* Germar, 1824, *Ochthebius metallescens* Rosenhauer, 1847), three as vulnerable (*Hydraena morio* Kiesenwetter, 1849, *Elmis obscura* (Ph. Müller, 1806) and *Riolus cupreus* (Ph. Müller, 1806)) and two as near-threatened (*Hydraena belgica* Orchymont, 1930 and *Hydraena schuleri* Ganglbauer, 1901) in the Red List of threatened invertebrates of the Czech Republic. These results show that the area is particularly rich in the running water fauna of the Hydraenidae and Elmidae.

Key words. Aquatic beetles, Coleoptera, Hydraenidae, Elmidae, faunistics, biogeography, new records, species conservation, aquatic habitats, White Carpathians, Moravia, Czech Republic

Introduction

This paper addresses two families of water beetles, the Hydraenidae and the Elmidae, that are common and speciose in running waters, including those of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve in south-eastern Moravia, Czech Republic (hereafter abbreviated to Bílé Karpaty PLA).

The Hydraenidae (minute moss beetles) are cosmopolitan, with over 20 genera and more than 1,000 described species. The adults of most of them are riparian or aquatic and may be found in standing water, running water and hygropetric habitats. Some appear to

be amphibious (facultatively aquatic) or riparian (JÄCH 1998). Their body is usually elongate or long-oval and the size of the Czech species varies between 1.0 and 2.7 mm (BOUKAL *et al.* 2007). They have elongated maxillary palpi that fulfil the sensory function of antennae. The antennae themselves are short and clubbed and play an important role in breathing in species that live close to the water surface (JÄCH *et al.* 2005a). The larvae are not usually aquatic and presumably live in wet habitats close to water. Fifty-two species have been confirmed from the Czech Republic (BOUKAL *et al.* 2007, STRAKA 2010). Another species is reported here for the first time, increasing that number to 53 for the Czech Republic.

The Elmidae (riffle beetles), traditionally divided into the subfamilies Elminae and Larinae, are also cosmopolitan with *ca.* 120 genera and more than 1,200 species (JÄCH & KODADA 1995). Adults and larvae are largely aquatic, although the adults of many Larinae are often encountered a little above the water line or in the spray zones of waterfalls and cascades. Riffle beetles generally occupy lotic habitats and only a few species are to be found in lakes or ponds (JÄCH 1998). The adults of the central European Elminae are small, only 1.3–5.0 mm long, subparallel to ovate in body shape, and brownish to black in colour. All of them are strongly sclerotized and have long, strong legs with strong claws. Altogether 19 species of the family Elmidae are currently known from the Czech Republic (BOUKAL *et al.* 2007).

The Bílé Karpaty PLA covers the Czech (Moravian) part of the White Carpathian Mts. [Bílé Karpaty] extending along the Czech-Slovak border. The general characteristics of the natural conditions in the area are given in KUČA *et al.* (1992), MACKOVČIN & JATIOVÁ (2002), JONGEPIEROVÁ (2008) and KONVIČKA *et al.* (2011). Previous records of the Hydraenidae and Elmidae from the Bílé Karpaty PLA and neighbouring areas are surprisingly scarce. The first author to mention the genus *Hydraena* Kugelann, 1794 in the White Carpathian Mts. was HRBÁČEK (1951), but he gave no concrete data. KODADA (1992) briefly reported on the aquatic beetles from the eastern part of the White Carpathian Mts. in Slovakia. An early record of *Ochthebius crenulatus* Mulsant et Rey, 1850 from Valašské Klobouky (see also Discussion) and one recent record of *Riolus cupreus* (Ph. Müller, 1806) from a stream near Suchov were mentioned in the Catalogue of Water Beetles of the Czech Republic (BOUKAL *et al.* 2007). The recent discovery of *Hydraena rufipes* Curtis, 1830 in the Czech Republic, based on specimens from streams near Radějov, was published by STRAKA (2010). Finally, TRÁVNÍČEK (2010) reported several species of the Hydraenidae in his survey of one type of standing water habitat.

The purpose of this study is to present the results of recent extensive surveys of running and standing waters in the Bílé Karpaty PLA and summarize current knowledge of the distribution of the Elmidae and Hydraenidae in the area.

Material and methods

Almost all the data presented here were gathered after 1994 and most of them derive from after 2006, with much of the collecting activity taking place in 2010. Almost all the specimens reported as new records in this study were obtained from flowing waters by

kick sampling. This method relies on disturbing the stream bed; the beetles, carried with dislodged particles and debris down the current, are collected in a hand-net. The contents of the net are immediately placed on white canvas and inspected for beetles.

Many records taken by P. Komzák, P. Pařil, M. Straka and S. Větríček were obtained as part of a standard monitoring programme, in which a three-minute multihabitat sample is taken and fixed with formaldehyde and then processed in the lab (KOKEŠ & NĚMEJCOVÁ 2006). Unfortunately the samples from such monitoring are stored for only a limited period of time or immediately discarded, and voucher specimens are usually not available. These records are abbreviated as NC. All other specimens are to be found in the following nine collections, abbreviated as:

DBC	David Boukal collection, České Budějovice
JKVC	Josef Kadlec collection, Varnsdorf
LMTC	Ladislav Mencl collection, Týnec nad Labem
NMPC	National Museum, Prague (Martin Fikáček and Petr Kment collections)
MHBC	Michal Horsák collection, Brno
MJMZ	Museum of South-eastern Moravia in Zlín, Zlín (Dušan Trávníček collection)
MSHC	Michal Straka collection, Hustopeče
PKBC	Petr Komzák collection, Brno
SVBC	Stanislav Větríček collection, Brno
TSOC	Tomáš Sitek collection, Ostrava

The following additional abbreviations are used in the text: NM – Nature Monument, NNM – National Nature Monument, NNR – National Nature Reserve, NR – Nature Reserve, PLA – Protected Landscape Area (all of these are the various categories and terms specified by the Czech system of legally protected natural areas); CR – critically endangered, EN – endangered, VU – vulnerable, NT – near-threatened, DD – data deficient (the latter five relate to the categories in the Red List of threatened invertebrates of the Czech Republic, *cf.* FARKAČ *et al.* 2005, updated by BOUKAL *et al.* 2007; species found after 2007 are treated as DD); spec. – number of voucher specimens (not sexed).

The system, nomenclature and classification into the conservation categories used in this paper follow BOUKAL *et al.* (2007).

List of collecting sites

The material was collected at 89 localities, which are listed below (see also Fig. 1). Each entry in the list is arranged as follows: number of locality, name of the nearest village or town, local name of the collecting site (usually the name of a stream or the name of a small-scale protected area – reserve), code of the field (in parentheses) in the faunistic and floristic grid mapping system of central Europe (EHRENDORFER & HAMANN 1965, PRUNER & MÍKA 1996, each basic field divided into 16 subfields, *cf.* KONVIČKA *et al.* 2011), GPS coordinates, altitude, and habitat (if this is not evident from the name of the site itself).

1. Dolní Lhota, Luhačovický potok stream (6872d2), 49°07'34"N 17°47'51"E, 285 m a.s.l.
2. Petrůvka, Kladenka springs (6872d4), 49°06'11"N 17°49'17"E, 460 m a.s.l.
3. Petrůvka, Petrůvka stream (6872d4), 49°07'15"N 17°48'00"E, 315 m a.s.l.
4. Haluzice, Václavský potok stream (6873c2), 49°08'05"N 17°53'21"E, 470 m a.s.l.; spring.
5. Slavičín, Lukšinka stream (6873c3), 49°06'19"N 17°52'17"E, 380 m a.s.l.
6. Vlachovice, Sviborka stream (6873d1), 49°08'19"N 17°55'40"E, 350 m a.s.l.
7. Vlachovice, Vlára stream (6873d1), 49°07'57"N 17°56'10"E, 347 m a.s.l.
8. Vrbětice, Václavský potok stream (6873d3), 49°06'17"N 17°56'12"E, 340 m a.s.l.
9. Vrbětice, Vlára stream (6873d3), 49°06'18"N 17°56'15"E, 335 m a.s.l.
10. Poteč (6874a4), 49°09'40"N 18°02'39"E; stream.
11. Poteč, left tributary of Brumovka stream (6874c2), 49°08'40"N 18°03'45"E, 630 m a.s.l.; stream.
12. Brumov-Bylnice, Brumovka stream (6874c3), 49°06'11"N 18°01'37"E, 338 m a.s.l.
13. Brumov-Bylnice, Hložecký potok stream (6874c3), 49°06'07"N 18°00'02"E, 380 m a.s.l.
14. Valašské Klobouky, Bílé potoky NR (6874c3), 49°06'55"N 18°01'39"E, 450 m a.s.l.; spring fen.
15. Valašské Klobouky, nameless stream 600 m NW from Vrchy hill (6874c3), 49°07'27"N 18°02'05"E.
16. Návojná, Návojná stream (6874c4), 49°07'14"N 18°03'03"E, 415 m a.s.l.
17. Záhorovice, Kladenka stream (6972d1), 49°01'53"N 17°45'48"E, 245 m a.s.l.
18. Bojkovice, Koménka stream (6972d2), 49°01'52"N 17°48'20"E, 275 m a.s.l.
19. Nezdenice (6972d3), 49°00'35"N 17°45'20"E, 300 m a.s.l.; lake in quarry and its outflow.
20. Bojkovice, Koménka stream (6972d4), 49°01'11"N 17°48'03"E, 300 m a.s.l.
21. Slavičín (6973a1), 49°05'32"N 17°52'06"E, 370 m a.s.l.; pool in abandoned brick plant.
22. Hostětín, Kolelač stream (6973a3), 49°03'27"N 17°51'41"E, 335 m a.s.l.
23. Vrbětice (6973b1), 49°06'02"N 17°56'18"E, 370 m a.s.l.; recently created pool.
24. Vrbětice (6973b1), 49°06'02"N 17°56'18"E, 370 m a.s.l.; short reach of a stream.
25. Rokytnice, right tributary of Rokytenka stream (6973b3), 49°03'25"N 17°55'18"E, 370 m a.s.l.; stream.
26. Popov, Zelenský potok stream (6973b4), 49°04'03"N 17°58'48"E, 325 m a.s.l.
27. Štítná nad Vláří, Zelenský potok stream (6973b4), 49°03'14"N 17°58'23"E, 380 m a.s.l.
28. Pitín, Olšava stream (6973c1), 49°01'41"N 17°52'32"E, 390 m a.s.l.
31. Sidonie, Vlára stream (6974c2), 49°02'14"N 18°03'02"E, 290 m a.s.l.
32. Sidonie, Vlárka stream (6974c2), 49°02'06"N 18°03'50"E, 290 m a.s.l.
33. Svatý Štěpán, Vlára stream (6974c2), 49°02'12"N 18°03'03"E, 280 m a.s.l.
34. Korytná, Březí (7071d2), 48°55'38"N 17°39'36"E, 380–410 m a.s.l.; stream.
35. Horní Němčí, Kazivec stream (7071d3), 48°54'04"N 17°37'24"E, 495 m a.s.l.; stream.
36. Suchov, Kazivec stream (7071d3), 48°54'16"N 17°36'51"E, 470 m a.s.l.
37. Horní Němčí, Okluky stream (7071d4), 48°55'11"N 17°37'48"E, 360 m a.s.l.
38. Suchov, Suchovské Mlýny, right tributary of Kazivec stream (7071d4), 400 m a.s.l.; stream.
39. Korytná, Lubná pond (7072), 48°56'44"N 17°40'51"E, 320 m a.s.l.
40. Komňa, Bučník quarry (7072b1), 48°58'48"N 17°47'28"E, 450–540 m a.s.l.; pools.
41. Komňa, Koménka stream (7072b2), 48°59'17"N 17°47'35"E, 391 m a.s.l.
42. Komňa, Lom Rasová NM (7072b2), 48°58'34"N 17°48'43"E, 540 m a.s.l.; pool in abandoned quarry.
43. Lopeník, Nivnička stream (7072b3), 48°57'17"N 17°46'48"E, 570 m a.s.l.; spring and stream.
44. Korytná, Lubná stream (7072c1), 48°56'50"N 17°40'49"E, 310 m a.s.l.
45. Březová, Cestiska NM (7072c2), 48°55'44"N 17°43'49"E, 480–510 m a.s.l.; data on habitat unavailable.
46. Březová, Hradecký járek (7072c2), 48°56'07"N 17°43'06"E, 630 m a.s.l.; spring.
47. Strání, Klanečnice stream (7072c3), 48°54'22"N 17°40'17"E, 427 m a.s.l.
48. Lopeník, Hrubý Mechnáč (7072d2), 48°56'33"N 17°47'54"E, 700 m a.s.l.; spring fen.
49. Lopeník, stream under Mechnáč (7072d2), 48°56'48"N 17°47'50"E, 640 m a.s.l.

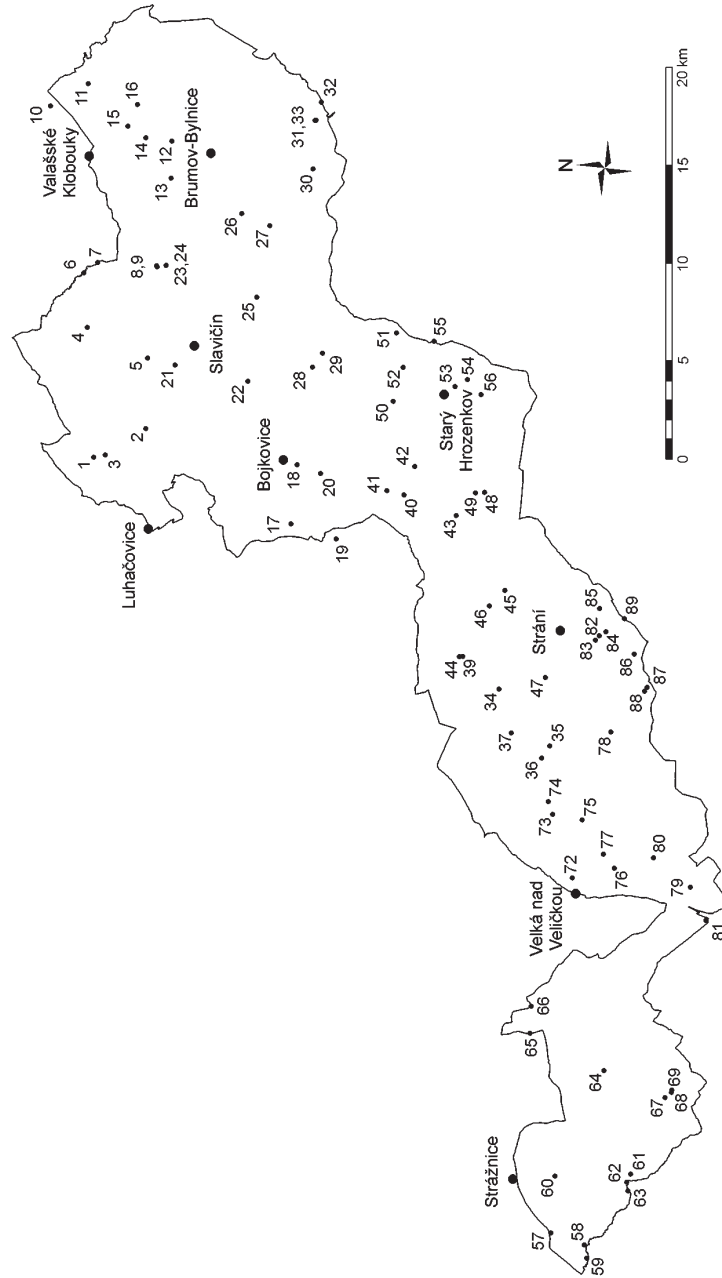


Fig. 1. A simplified map of the Bílé Karpaty Protected Landscape Area with the location of sites studied.

50. Žitková, Vlčí potok stream (7073a1), 48°59'20"N 17°51'24"E, 590 m a.s.l.
51. Žitková, Hutě NR (7073a2), 48°59'25"N 17°54'19"E, 450 m a.s.l.; spring fen.
52. Žitková, Pod Žitkovským vrchem NR (7073a2), 48°59'09"N 17°52'53"E, 590 m a.s.l.; helocrene spring.
53. Starý Hrozenkov, Krátkovský potok stream (7073a3), 48°57'39"N 17°52'16"E, 360 m a.s.l.
54. Starý Hrozenkov, Drietomice stream (7073a4), 48°57'19"N 17°52'37"E, 360 m a.s.l.
55. Žitková, Žitkovský potok stream (7073a4), 48°58'21"N 17°54'06"E, 380 m a.s.l.
56. Starý Hrozenkov, right tributary of Drietomice stream (7073c1), 48°56'54"N 17°52'02"E, 390 m a.s.l.; stream.
57. Petrov, Radějovka stream (7169b1), 48°52'43"N 17°16'47"E, 175 m a.s.l.
58. Sudoměřice, Sudoměřický potok stream valley (7169b3), 48°51'45"N 17°16'25"E, 200 m a.s.l.; pool.
59. Sudoměřice, Sudoměřický potok stream (7169b3), 48°51'39"N 17°15'52"E, 190 m a.s.l.
60. Strážnice, Radějovka stream (7169b4), 48°52'46"N 17°19'12"E, 200 m a.s.l.
61. Radějov, Mandát stream (7169d2), 48°50'39"N 17°19'36"E, 260 m a.s.l.
62. Radějov, Mlýnky (7169d2), 48°50'44"N 17°19'15"E, 250 m a.s.l.; data on habitat unavailable.
63. Radějov, Sudoměřický potok stream (7169d2), 48°50'41"N 17°18'53"E, 252 m a.s.l.
64. Tvarožná Lhota, Járkovec stream (7170a4), 48°51'41"N 17°23'52"E, 300 m a.s.l.
65. Hroznová Lhota, Velička stream (7170b1), 48°53'51"N 17°25'09"E, 195 m a.s.l.
66. Lipov, Kuželovský potok stream (7170b1), 48°53'53"N 17°26'18"E, 210 m a.s.l.
67. Radějov, Kútky NR (7170c1), 48°49'54"N 17°22'59"E, 380 m a.s.l.; helocrene spring.
68. Radějov, Kútky NR (7170c1), 48°49'44"N 17°23'14"E, 370 m a.s.l.; pond near forest edge.
69. Radějov, Kútky NR (7170c1), 48°49'44"N 17°23'20"E, 375 m a.s.l.; stream above pond.
70. Javorník, Hrubý potok stream (7171), 400 m a.s.l.; other data unavailable.
71. Velká nad Veličkou, Jamný potok stream (7171a4); other data unavailable.
72. Velká nad Veličkou, Zahrady pod Hájem NNR (7171a1), 48°53'05"N 17°31'54"E, 320 m a.s.l.; helocrene spring.
73. Suchov, Kazivec stream (7171a2), 48°53'48"N 17°34'31"E, 378 m a.s.l.
74. Suchov, Kazivec stream (7171a2), 48°53'58"N 17°35'02"E, 410 m a.s.l.
75. Suchov, Velička stream (7171a2), 48°52'58"N 17°34'24"E, 360 m a.s.l.
76. Javorník, Velička stream (7171a3), 48°51'56"N 17°32'29"E, 323 m a.s.l.
77. Javorník, Velička stream near Petruchovy Mlýny (7171a4), 48°52'17"N 17°33'02"E, 340 m a.s.l.
78. Nová Lhota-Vápenky, Velička stream (7171b4), 48°52'24"N 17°38'14"E, 427 m a.s.l.
79. Javorník, Machová NR (7171c1), 48°49'46"N 17°31'59"E (center of the reserve, precise location of the collecting site unknown), 380–570 m a.s.l.; data on habitat unavailable.
80. Javorník, Hrubý potok stream (7171c2), 48°50'52"N 17°33'05"E, 370 m a.s.l.
81. Javorník, Teplica stream (7171c3), 48°49'14"N 17°30'39"E, 341 m a.s.l.
82. Strání, Mechnáčky NM – large pool in central part of the reserve (7172a1), 48°52'58"N 17°42'16"E, 480 m a.s.l.
83. Strání, Mechnáčky NM – pool at the edge of the reserve (7172a1), 48°53'04"N 17°42'04"E, 510 m a.s.l.
84. Strání-Květná, Svinárský potok stream (7172a1), 48°52'48"N 17°42'28"E, 400 m a.s.l.
85. Strání-Květná, Klanečnice stream (7172a2), 48°53'02"N 17°43'25"E, 350 m a.s.l.
86. Strání, Javorina NNR, Svinárský potok stream (7172a3), 48°51'57"N 17°41'38"E, 800 m a.s.l.
87. Nová Lhota-Vápenky, Javorina NNR – Velička springs (7172a3), 48°51'30"N 17°40'16"E, 880 m a.s.l.
88. Nová Lhota-Vápenky, Velička stream – crossing road on the border of Javorina NNR (7172a3), 48°51'34"N 17°40'06"E.
89. Strání-Květná, right tributary of Klanečnice stream (7172a4), 48°52'19"N 17°43'05"E; stream.

Annotated list of species

All the material examined for each species is listed; individual records are ordered according to the number of the collecting site. For previously published data, only localities are provided. For unpublished material, each record is arranged as follows: name of the collecting site and its number (in parentheses), date(s) of collection(s), number of specimens, person who collected and identified the material, and place of deposition of the material (in parentheses).

Family HYDRAENIDAE

Hydraena belgica Orchymont, 1930

(NT)

Material examined. Slavičín, Lukšinka stream (5), 4.ix.2010, 1 ♂, M. Straka lgt. & det. (MSHC). Vlachovice, Sviborka stream (6), 4.ix.2010, 2 spec., M. Straka lgt. & det. (MSHC). Vrbětice, Václavský potok stream (8), 8.v.2010, 17 spec., M. Straka lgt. & det. (MSHC). Poteč (10), 21.v.1999, 1 ♂, M. Horský lgt., D. Boukal det. (DBCB). Brumov-Bylnice, Hložecký potok stream (13), 10.iv.2008, 1 ♀, M. Straka lgt. & det. (MSHC). Záhorovice, Kladenka stream (17), 8.v.2010, 2 spec., M. Straka lgt. & det. (MSHC). Sudoměřice, Sudoměřický potok stream (59), 25.viii.2009, 2 spec., M. Straka lgt. & det. (MSHC). Nová Lhota-Vápenky, Velička stream (78), 3.iv.2007, 1 ♀, M. Straka lgt. & det. (MSHC).

Distribution and frequency in the Bílé Karpaty PLA: Found throughout the area, but most records come from its northern part. **General distribution:** European. **Habitat preferences:** Rhitral. **Red List status:** NT.

Comments. Rare in the Czech Republic and known only from a few localities in Bohemia, more common in eastern and central Moravia. It lives in gravel in moderately flowing streams from lowlands to hills (BOUKAL *et al.* 2007).

Hydraena excisa Kiesenwetter, 1849

Published records. TRÁVNÍČEK (2010): Vrbětice (24).

Additional material examined. Dolní Lhota, Luhačovický potok stream (1), 24.v.2006, 3 spec., P. Komzák lgt. & det. (NC). Petrůvka, Petrůvka stream (3), 5.x.2006, 2 spec., M. Straka lgt. & det. (MSHC). Haluzice, Václavský potok stream (4), 4.ix.2010, 1 spec., M. Straka lgt. & det. (MSHC). Slavičín, Lukšinka stream (5), 4.ix.2010, 34 spec., M. Straka lgt. & det. (MSHC). Vlachovice, Sviborka stream (6), 4.ix.2010, 24 spec., M. Straka lgt. & det. (MSHC). Vlachovice, Vlára stream (7), 25.v.2006, 1 ♂ 1 ♀, P. Komzák lgt. & det. (PKBC). Vrbětice, Václavský potok stream (8), 8.v.2010, 6 spec., M. Straka lgt. & det. (MSHC). Vrbětice, Vlára stream (9), 8.v.2010, 1 spec., M. Straka lgt. & det. (MSHC). Brumov-Bylnice, Hložecký potok stream (13), 10.iv.2008, 1 ♀, M. Straka lgt. & det. (MSHC). Záhorovice, Kladenka stream (17), 8.v.2010, 8 spec., M. Straka lgt. & det. (MSHC). Bojkovice, Koménka stream (18), 24.ix.2009, 4 spec., P. Komzák lgt. & det. (NC). Hostětín, Kolelač stream (22), 8.x.2008, 12 spec., P. Komzák lgt. & det. (NC). Rokytnice, right tributary of Rokytěnka stream (25), 4.ix.2009, 6 spec., M. Straka lgt. & det. (MSHC). Popov, Zelenský potok stream (26), 5.v.2009, 2 spec., S. Větríček lgt. & det. (NC). Štítná nad Vláří, Zelenský potok stream (27), 4.ix.2010, 3 spec., M. Straka lgt. & det. (MSHC).

Distribution and frequency in the Bílé Karpaty PLA: Not rare in the area, but all records come from its northern part (north of Bojkovice). **General distribution:** European. **Habitat preferences:** Rhitral. **Red List status:** –.

***Hydraena gracilis* Germar, 1824**

Published records. TRÁVNÍČEK (2010): Horní Němčí, Kazivec stream (35); Suchov, Kazivec stream (36, 74); Radějov, Kútky NR (69).

Additional material examined. Petrůvka, Petrůvka stream (3), 25.iv.2006, 1 spec., M. Straka lgt. & det. (NC). Slavičín, Lukšinka stream (5), 4.ix.2010, 1 spec., M. Straka lgt. & det. (MSHC). Vlachovice, Sviborka stream (6), 4.ix.2010, 5 spec., M. Straka lgt. & det. (MSHC). Vrbětice, Václavský potok stream (8), 8.v.2010, 5 spec., M. Straka lgt. & det. (MSHC). Brumov-Bylnice, Hložecký potok stream (13), 25.iv.2006, 8 spec., M. Straka lgt. & det. (MSHC). Valašské Klobouky, nameless stream 600 m NW from Vrchy hill (15), 10.vi.1997, 1 ♂, D. Trávníček lgt. & det. (MJMZ). Návojná, Návojná stream (16), 25.iv.2006, 4 spec., M. Straka lgt. & det. (MSHC). Záhorovice, Kladenka stream (17), 8.v.2010, 2 spec., M. Straka lgt. & det. (MSHC). Bojkovice, Koménka stream (18), 24.ix.2009, 4 spec., P. Komzák lgt. & det. (NC). Bojkovice, Koménka stream (20), 8.v.2010, 6 spec. M. Straka lgt. & det. (MSHC). Hostětín, Kolelač stream (22), 8.x.2008, 2 spec., P. Komzák lgt. & det. (NC). Rokytnice, right tributary of Rokytenska stream (25), 4.ix.2010, 2 spec., M. Straka lgt. & det. (MSHC). Popov, Zelenský potok stream (26), 5.v.2009, 18 spec., S. Větríček lgt. & det. (NC). Štítná nad Vláří, Zelenský potok stream (27), 4.ix.2010, 28 spec., M. Straka lgt. & det. (MSHC). Pitín, Olšava stream (28), 8.v.2010, 3 spec., M. Straka lgt. & det. (MSHC). Pitín, Olšava stream (29), 12.iv.2008, 3 spec., M. Straka lgt. & det. (NC). Svatý Štěpán, Bukový potok stream (30), 24.iv.2006, 1 spec., M. Straka lgt. & det. (MSHC). Sidonie, Vlára stream (31), 24.ix.2009, 2 spec., P. Komzák lgt. & det. (NC). Sidonie, Vlárka stream (32), 24.ix.2009, 28 spec., S. Větríček lgt. & det. (NC). Svatý Štěpán, Vlára stream (33), 23.ix.2007, 1 spec., M. Straka lgt. & det. (NC). Horní Němčí, Okluky stream (37), 24.iv.2006, 8 spec., M. Straka lgt. & det. (MSHC). Komňa, Koménka stream (41), 15.v.2010, 13 spec., M. Straka lgt. & det. (MSHC). Korytná, Lubná stream (44), 15.v.2010, 2 spec., M. Straka lgt. & det. (MSHC). Strání, Klanečnice stream (47), 24.iv.2006, 2 spec., M. Straka lgt. & det. (MSHC). Lopeník, stream under Mechnáč (49), 30.viii.2006, 1 ♀, M. Straka lgt. & det. (MSHC). Starý Hrozenkov, Krátkovský potok stream (53), 5.x.2009, 30 spec., P. Komzák lgt. & det. (NC). Starý Hrozenkov, Drietomice stream (54), 3.v.2005, 3 ♂♂ 5 ♀♀, P. Pařil lgt., D. Boukal det. (DBCB); 6.v.2009, 70 spec., P. Komzák lgt. & det. (NC). Žitková, Žitkovský potok stream (55), 5.x.2009, 52 spec., P. Komzák lgt. & det. (NC). Starý Hrozenkov, right tributary of Drietomice stream (56), 24.iv.2006, 4 spec., M. Straka lgt. & det. (MSHC). Petrov, Radějovka stream (57), 9.x.2008, 4 spec., P. Komzák lgt. & det. (NC). Sudoměřice, Sudoměřický potok stream (59), 5.v.2009, 2 spec., S. Větríček lgt. & det. (NC); 25.viii.2009, 11 spec., M. Straka lgt. & det. (MSHC). Strážnice, Radějovka stream (60), 4.vi.2009, 11 spec., M. Straka lgt. & det. (MSHC). Radějov, Mandát stream (61), 25.ix.2010, 22 spec., M. Straka lgt. & det. (MSHC). Radějov, Sudoměřický potok stream (63), 30.iv.2007, 3 spec., M. Straka lgt. & det. (NC). Tvarožná Lhota, Járkovce stream (64), 30.vi.2007, 3 ♂♂ 1 ♀, Josef Kadlec lgt., D. Boukal det. (JKVC); 25.ix.2010, 6 spec., M. Straka lgt. & det. (MSHC). Hroznová Lhota, Velička stream (65), 25.ix.2010, 1 spec., M. Straka lgt. & det. (MSHC). Javorník, Hrubý potok stream (70), 3.x.1996, 6 ♀♀, L. Mencl lgt., D. Boukal det. (LMTC). Velká nad Veličkou, Jamný potok stream (71), 24.v.1995, 1 ♂, D. Trávníček lgt. & det. (MJMZ). Suchov, Kazivec stream (73), 3.iv.2007, 25 spec., M. Straka lgt. & det. (NC). Javorník, Velička stream (76), 18.x.2008, 8 spec., P. Komzák lgt. & det. (NC). Javorník, Velička stream near Petruchovy Mlýny (77), 3.x.1996, 2 ♂♂, 3 ♀♀, L. Mencl lgt., D. Boukal det. (LMTC); 25.ix.2010, 10 spec., M. Straka lgt. & det. (MSHC). Nová Lhota-Vápenky, Velička stream (78), 3.iv.2007, 20 spec., M. Straka lgt. & det. (NC). Javorník, Hrubý potok stream (80), 4.v.2009, 5 spec., P. Komzák lgt. & det. (NC). Javorník, Teplíca stream (81), 19.ix.2006, 20 spec., P. Komzák lgt. & det. (NC). Strání-Květná, Svinárský potok stream (84), 15.v.2010, 12 spec., M. Straka lgt. & det. (MSHC). Strání-Květná, Klanečnice stream (85), 6.x.2009, 7 spec., P. Komzák lgt. & det. (NC).

Distribution and frequency in the Bílé Karpaty PLA: The most common *Hydraena* species in the Czech Republic and also in the Bílé Karpaty PLA. Distributed throughout the area in all types of flowing waters. **General distribution:** European. **Habitat preferences:** Rhitral. **Red List status:** –.

Comments. All males that were dissected belong to the nominotypical subspecies *Hydraena gracilis gracilis* Germar, 1824.

Hydraena melas Dalla Torre, 1877

Published records. TRÁVNÍČEK (2010): Nezdenice (19); Slavičín (21); Vrbětice (23, 24); Radějov, Kútky NR (67).

Additional material examined. Horní Němčí, Kazivec stream (35), 4.x.2006, 1 spec., M. Straka lgt. & det. (MSHC). Lopeník, stream under Mechnáč (49), 30.viii.2006, 1 ♂, M. Straka lgt. & det. (MSHC). Javorník, Velička stream near Petruchovy Mlýny (77), 25.ix.2010, 5 spec., M. Straka lgt. & det. (MSHC). Nová Lhota-Vápenky, Velička stream (78), 25.ix.2007, 1 ♂, M. Straka lgt. & det. (NC). Javorník, Teplica stream (81), 19.ix.2006, 1 ♂, P. Komzák lgt. & det. (PKBC).

Distribution and frequency in the Bílé Karpaty PLA: Not very common, with localities scattered across the area. **General distribution:** European. **Habitat preferences:** Semiaquatic, euryecious, but more commonly found in standing water. **Red List status:** –.

Hydraena minutissima Stephens, 1829

Material examined. Vrbětice, Václavský potok stream (8), 8.v.2010, 3 spec., M. Straka lgt. & det. (MSHC). Javorník, Velička stream near Petruchovy Mlýny (77), 25.ix.2010, 3 spec., M. Straka lgt. & det. (MSHC).

Distribution and frequency in the Bílé Karpaty PLA: Found at two relatively distant sites: the Velička stream in the south and the Václavský potok stream near the northern border of the area. **General distribution:** European. **Habitat preferences:** Rhitral, xylobiont, mostly in warmer streams. **Red List status:** –.

Comments. A rare species in the Czech Republic, known only from six localities in Bohemia after 1961 (BOUKAL *et al.* 2007). The present records from the Bílé Karpaty PLA confirm its recent occurrence in Moravia. Its apparent scarcity may be partly caused by insufficient research as *H. minutissima* has been recently found also at some other localities in Moravia (M. STRAKA, unpublished data).

Hydraena morio Kiesenwetter, 1849

(VU)

Published record. KŘOUPALOVÁ *et al.* (2011): Valašské Klobouky, Bílé potoky NR (14).

Material examined. Petrůvka, Kladenka springs (2), 8.v.2010, 10 spec., M. Straka lgt. & det. (MSHC). Haluzice, Václavský potok stream (4), 4.ix.2010, 7 spec., M. Straka lgt. & det. (MSHC). Valašské Klobouky, Bílé potoky NR (14), 4.vii.2006, 3 ♂♂ 1 ♀, M. Straka lgt. & det. (MSHC). Štítná nad Vláří, Zelenský potok stream (27), 4.ix.2010, 1 ♂, M. Straka lgt. & det. (MSHC). Lopeník, Nivnička stream (43), 15.v.2010, 13 spec., M. Straka lgt. & det. (MSHC). Lopeník, Hrubý Mechnáč (48), 3.vii.2006, 1 spec., J. Bojková lgt., M. Straka det. (MSHC).

Distribution and frequency in the Bílé Karpaty PLA: Uncommon; found at suitable localities that receive cold water throughout the year. **General distribution:** Central and south-eastern Europe. **Habitat preferences:** Crenophilous. **Red List status:** VU.

Comments. *Hydraena morio* has only been known from about nine localities in Bohemia and four localities in Moravia so far (BOUKAL *et al.* 2007). Usually, it inhabits small springs and hypocrenal streamlets, often with muddy substrate.

***Hydraena nigrita* Germar, 1824**

Published records. TRÁVNÍČEK (2010): Vrbětice (24); Horní Němčí, Kazivec stream (35); Suchov, Kazivec stream (36, 74); Radějov, Kútky NR (68, 69). KŘOUPALOVÁ *et al.* (2011): Valašské Klobouky, Bílé potoky NR (14).

Additional material examined. Petrůvka, Kladenska springs (2), 8.v.2010, 11 spec., M. Straka lgt. & det. (MSHC). Petrůvka, Petrůvka stream (3), 5.x.2006, 1 ♂ 1 ♀, M. Straka lgt. & det. (MSHC). Haluzice, Václavský potok stream (4), 4.ix.2010, 1 spec., M. Straka lgt. & det. (MSHC). Slavičín, Lukšinka stream (5), 4.ix.2010, 20 spec., M. Straka lgt. & det. (MSHC). Vlachovice, Sviborka stream (6), 4.ix.2010, 4 spec., M. Straka lgt. & det. (MSHC). Vrbětice, Václavský potok stream (8), 8.v.2010, 4 spec., M. Straka lgt. & det. (MSHC). Brumov-Bylnice, Hložecký potok stream (13), 8.x.2008, 1 ♀, M. Straka lgt. & det. (NC). Valašské Klobouky, Bílé potoky NR (14), 4.vii.2006, 1 spec., J. Bojková lgt., M. Straka det. (MSHC). Záhorovice, Kladenska stream (17), 8.v.2010, 9 spec., M. Straka lgt. & det. (MSHC). Bojkovice, Koménka stream (20), 8.v.2010, 1 ♂ 1 ♀, M. Straka lgt. & det. (MSHC). Hostětín, Kolelač stream (22), 8.x.2008, 2 spec., P. Komzák lgt. & det. (NC). Rokytnice, right tributary of Rokytenska stream (25), 4.ix.2010, 10 spec., M. Straka lgt. & det. (MSHC). Štítná nad Vláří, Zelenský potok stream (27), 4.ix.2010, 1 spec., M. Straka lgt. & det. (MSHC). Pitín, Olšava stream (28), 8.v.2010, 7 spec., M. Straka lgt. & det. (MSHC). Svatý Štěpán, Bukový potok stream (30), 24.iv.2006, 1 spec., M. Straka lgt. & det. (MSHC). Horní Němčí, Kazivec stream (35), 24.iv.2006, 1 spec., M. Straka lgt. & det. (MSHC). Horní Němčí, Okluky stream (37), 24.iv.2006, 7 spec., M. Straka lgt. & det. (MSHC). Suchov, Suchovské Mlýny, right tributary of Kazivec stream (38), 3 spec., L. Mencl lgt., D. Boukal det. (DDBC, LMTC). Korytná, Lubná pond (39), 5.vii.2001, 1 ♂ 2 ♀♀, P. Kment & M. Horský lgt., D. Boukal det. (NMPC). Komňa, Koménka stream (41), 15.v.2010, 2 spec., M. Straka lgt. & det. (MSHC). Lopeník, Nivnička stream (43), 15.v.2010, 11 spec., M. Straka lgt. & det. (MSHC). Korytná, Lubná stream (44), 15.v.2010, 6 spec., M. Straka lgt. & det. (MSHC). Strání, Klanečnice stream (47), 24.iv.2006, 2 spec., M. Straka lgt. & det. (MSHC). Žitková, Hutě NR (51), 3.vii.2006, 2 spec., M. Straka lgt. & det. (MSHC). Sudoměřice, Sudoměřický potok stream (59), 25.viii.2009, 1 ♂ 1 ♀, M. Straka lgt. & det. (MSHC). Strážnice, Radějovka stream (60), 4.vi.2009, 16 spec., M. Straka lgt. & det. (MSHC). Radějov, Mandát stream (61), 25.ix.2010, 13 spec., M. Straka lgt. & det. (MSHC). Tvarožná Lhota, Járkovec stream (64), 25.ix.2010, 24 spec., M. Straka lgt. & det. (MSHC). Hroznová Lhota, Velička stream (65), 25.ix.2010, 1 spec., M. Straka lgt. & det. (MSHC). Lipov, Kuželovský potok stream (66), 25.ix.2010, 1 spec., M. Straka lgt. & det. (MSHC). Javorník, Hrubý potok stream (70), 3.x.1996, 1 ♂ 1 ♀, L. Mencl lgt., D. Boukal det. (LMTC). Suchov, Kazivec stream (73), 3.iv.2007, 1 ♂ 1 ♀, M. Straka lgt. & det. (NC). Javorník, Velička stream near Petruchovy Mlýny (77), 25.ix.2010, 61 spec., M. Straka lgt. & det. (MSHC). Nová Lhota-Vápenky, Velička stream (78), 25.ix.2007, 2 ♂♂, M. Straka lgt. & det. (MSHC). Javorník, Machová NR (79), 14.v.1998, 1 ♀, I. Malenovský lgt., D. Boukal det. (NMPC). Javorník, Hrubý potok stream (80), 7.ix.2009, 6 spec., P. Komzák lgt. & det. (NC). Javorník, Teplica stream (81), 19.ix.2006, 8 spec., P. Komzák lgt. & det. (1 ♂ in PKBC). Strání-Květná, Svinárský potok stream (84), 15.v.2010, 6 spec., M. Straka lgt. & det. (MSHC).

Distribution and frequency in the Bílé Karpaty PLA: Very common throughout the area. **General distribution:** Western and central Europe. **Habitat preferences:** Rhitral, with preference for smaller streams. **Red List status:** –.

Hydraena pulchella* Germar, 1824*(EN)**

Material examined. Vrbětice, Václavský potok stream (8), 8.v.2010, 5 spec., M. Straka lgt. & det. (MSHC). Záhorovice, Kladenska stream (17), 8.v.2010, 14 spec., M. Straka lgt. & det. (MSHC). Tvarožná Lhota, Járkovec stream (64), 25.ix.2010, 1 spec., M. Straka lgt. & det. (MSHC). Javorník, Velička stream near Petruchovy Mlýny (77), 25.ix.2010, 1 spec., M. Straka lgt. & det. (MSHC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, with localities scattered throughout the area. **General distribution:** European. **Habitat preferences:** Rhitral, xylobiont, preferring warmer streams. **Red List status:** EN.

Comments. A rare species in the Czech Republic, previously with four known post-1960 localities in Bohemia and one in Moravia (BOUKAL *et al.* 2007).

Hydraena pygmaea Waterhouse, 1833

Material examined. Komňa, Koménka stream (41), 15.v.2010, 2 spec., M. Straka lgt. & det. (MSHC). Lopeník, stream under Mechnáč (49), 30.viii.2006, 1 ♀, M. Straka lgt. & det. (MSHC). Starý Hrozenkov, Drietomice stream (54), 6.v.2009, 8 spec., P. Komzák lgt. & det. (PKBC). Javorník, Velička stream near Petruchovy Mlýny (77), 25.ix.2010, 10 spec., M. Straka lgt. & det. (MSHC). Strání-Květná, Svinárský potok stream (84), 15.v.2010, 6 spec., M. Straka lgt. & det. (MSHC). Strání, Javorina NNR, Svinárský potok stream (86), 4.vii.2001, 4 spec., P. Kment & M. Horský lgt., D. Boukal det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Not very common. All known sites are in the central part of the area. **General distribution:** European. **Habitat preferences:** Rhitral, xylobiont. Mostly in colder streams than *H. pulchella*. **Red List status:** –.

Hydraena riparia Kugellan, 1794

Published records. TRÁVNÍČEK (2010): Vrbětice (24); Suchov, Kazivec stream (74).

Additional material examined. Slavičín, Lukšinka stream (5), 4.ix.2010, 1 ♂ 1 ♀, M. Straka lgt. & det. (MSHC). Vlachovice, Sviborka stream (6), 4.ix.2010, 1 ♂ 2 ♀♀, M. Straka lgt. & det. (MSHC). Záhorovice, Kladenka stream (17), 8.v.2010, 1 spec., M. Straka lgt. & det. (MSHC). Petrov, Radějovka stream (57), 9.x.2008, 2 spec., P. Komzák lgt. & det. (NC). Sudoměřice, Sudoměřický potok stream (59), 25.viii.2009, 2 ♂♂ 1 ♀, M. Straka lgt. & det. (MSHC). Strážnice, Radějovka stream (60), 4.vi.2009, 1 ♂ 1 ♀, M. Straka lgt. & det. (MSHC). Radějov, Mandát stream (61), 25.ix.2010, 4 spec., M. Straka lgt. & det. (MSHC). Tvarožná Lhota, Járkovec stream (64), 25.ix.2010, 2 spec., M. Straka lgt. & det. (MSHC). Lipov, Kuželovský potok stream (66), 25.ix.2010, 12 spec., M. Straka lgt. & det. (MSHC). Javorník, Velička stream near Petruchovy Mlýny (77), 25.ix.2010, 2 spec., M. Straka lgt. & det. (MSHC). Nová Lhota-Vápenky, Velička stream (78), 25.ix.2007, 1 ♂, M. Straka lgt. & det. (MSHC). Javorník, Teplíka stream (81), 19.ix.2006, 1 ♂, P. Komzák lgt. & det. (PKBC).

Distribution and frequency in the Bílé Karpaty PLA: Common; most of the localities are in the southern part of the area. **General distribution:** Palaearctic. **Habitat preferences:** Mostly along shores of running water, only rarely in standing water bodies. **Red List status:** –.

Hydraena rufipes Curtis, 1830

(Fig. 2)

Published records. STRAKA (2010): Petrov, Radějovka stream (57); Sudoměřice, Sudoměřický potok stream (59); Strážnice, Radějovka stream (60).

Additional material examined. Tvarožná Lhota, Járkovec stream (64), 25.ix.2010, 1 ♂, M. Straka lgt. & det. (MSHC).

Distribution and frequency in the Bílé Karpaty PLA: So far found in three streams in a small area in the south-western part of the area. **General distribution:** Western and central Europe. **Habitat preferences:** Rhitral. **Red List status:** DD.

Comments. A western European species, known from Ireland, Great Britain, France, Belgium and Germany (JÄCH 2004), with additional unconfirmed records from

Luxembourg, Italy and Poland (GALEWSKI 1990, HANSEN 1998). The nearest recently confirmed occurrence is an isolated population in the Bavarian Alps in Germany (GERSTMEIER 1993); Thuringian populations (HORION 1949) may be extinct. STRAKA (2010) reported *H. rufipes* for the first time from the Czech Republic. The three localities in the Bílé Karpaty Mts. are the only known from the Czech Republic and represent the easternmost populations of *H. rufipes*.

Hydraena saga Orchymont, 1930

Published records. TRÁVNÍČEK (2010): Vrbětice (24); Horní Němčí, Kazivec stream (35); Suchov, Kazivec stream (36, 74). KŘOUPALOVÁ *et al.* (2011): Valašské Klobouky, Bílé potoky NR (14).

Additional material examined. Petrůvka, Petrůvka stream (3), 25.iv.2006, 1 spec., M. Straka lgt. & det. (MSHC). Brumov-Bylnice, Hložecký potok stream (13), 25.iv.2006, 2 spec., M. Straka lgt. & det. (MSHC). Valašské Klobouky, Bílé potoky NR (14), 6.v.2009, 1 spec., J. Bojková lgt., M. Straka det. (MSHC). Návojná, Návojná stream (16), 25.iv.2006, 9 spec., M. Straka lgt. & det. (MSHC). Rokytnice, right tributary of Rokytenka stream (25), 4.ix.2010, 3 spec., M. Straka lgt. & det. (MSHC). Pitín, Olšava stream (29), 12.iv.2008, 1 spec., M. Straka lgt. & det. (NC). Svatý Štěpán, Bukový potok stream (30), 8.x.2008, 8 spec., M. Straka lgt. & det. (NC). Korytná, Březí (34), 4.vii.2001, 2 ♀♀, P. Kment & I. Malenovský lgt., D. Boukal det. (NMPC). Horní Němčí, Kazivec stream (35), 8.x.2008, 1 spec., M. Straka lgt. & det. (NC). Horní Němčí, Okluky stream (37), 24.iv.2006, 6 spec., M. Straka lgt. & det. (MSHC). Komňa, Koménka stream (41), 15.v.2010, 4 spec., M. Straka lgt. & det. (MSHC). Lopeník, Nivnička stream (43), 15.v.2010, 23 spec., M. Straka lgt. & det. (MSHC). Březová, Hradecký járek stream (46), 15.v.2010, 3 spec., M. Straka lgt. & det. (MSHC). Lopeník, stream under Mechnáč (49), 30.viii.2006, 2 ♂♂, M. Straka lgt. & det. (MSHC). Žitková, Vlčí potok stream (50), 15.v.2010, 2 spec., M. Straka lgt. & det. (MSHC). Nová Lhota-Vápenky, Velička stream (78), 3.iv.2007, 1 spec., M. Straka lgt. & det. (NC). Javorník, Hrubý potok stream (80), 7.x.2009, 2 spec., P. Komzák lgt. & det. (NC). Strání-Květná, Svinárský potok stream (84), 15.v.2010, 7 spec., M. Straka lgt. & det. (MSHC). Nová Lhota-Vápenky, Javorina NNR – Velička springs (87), 5.v.2006, 1 ♂ 1 ♀, P. Komzák lgt. & det. (PKBC). Strání-Květná, right tributary of Klanečnice stream (89), 28.v.2005, 1 ♂, D. Trávníček lgt. & det. (MJMZ).

Distribution and frequency in the Bílé Karpaty PLA: It inhabits relatively cold streams throughout the area except its south-western part. **General distribution:** Central and southern Europe. **Habitat preferences:** Rhitral. **Red List status:** –.

Hydraena schuleri Ganglbauer, 1901 (NT)

Material examined. Tvarožná Lhota, Járkovec stream (64), 25.ix.2010, 1 spec., M. Straka lgt. & det. (MSHC). Javorník, Velička stream near Petruchovy Mlýny (77), 25.ix.2010, 1 spec., M. Straka lgt. & det. (MSHC). Strání-Květná, Klanečnice stream (85), 24.iv.2006, 3 spec., M. Straka lgt. & det. (MSHC).

Distribution and frequency in the Bílé Karpaty PLA: Rare, found only at three localities in the southern half of the area. **General distribution:** Central and southern Europe. **Habitat preferences:** Rhitral, with preference for smaller streams. **Red List status:** NT.

Comments. In the Czech Republic, *H. schuleri* is currently restricted to mountains and highlands in Moravia, where it lives in small streams in gravel and debris, sometimes on exposed rootlets (BOUKAL *et al.* 2007).

***Limnebius papposus* Mulsant, 1844**

Published records. TRÁVNÍČEK (2010): Nezdenice (19); Slavičín (21); Vrbětice (23); Sudoměřice, Sudoměřický potok stream valley (58); Radějov, Kútky NR (67); Strání, Mechnáčky NM (82, 83).

Additional material examined. Radějov, Mlýnky (62), 25.viii.1999, 1 spec., M. Fikáček lgt., D. Boukal det. (NMPC).

Distribution and frequency in the Bílé Karpaty PLA: Distributed throughout the area in suitable habitats (small, warm standing water bodies). **General distribution:** European. **Habitat preferences:** Detritophilous, semiaquatic. **Red List status:** –.

***Limnebius truncatellus* (Thunberg, 1794)**

Published records. TRÁVNÍČEK (2010): Slavičín (21); Vrbětice (23); Žitková, Pod Žitkovským vrchem NR (52); Velká nad Veličkou, Zahrady pod Hájem NNR (72); Strání, Mechnáčky NM (82).

Additional material examined. Slavičín, Lukšinka stream (5), 4.ix.2010, 1 spec., M. Straka lgt. & det. (MSHC). Vlachovice, Sviborka stream (6), 4.ix.2010, 1 ♂ 1 ♀, M. Straka lgt. & det. (MSHC). Horní Němčí, Okluky stream (37), 4.x.2006, 1 ♂, M. Straka lgt. & det. (MSHC). Lopeník, stream under Mechnáč (49), 30.viii.2006, 1 ♂ 1 ♀, M. Straka lgt. & det. (MSHC). Tvarožná Lhota, Járkovec stream (64), 25.ix.2010, 1 spec, M. Straka lgt. & det. (MSHC). Lipov, Kuželovský potok stream (66), 25.ix.2010, 3 spec., M. Straka lgt. & det. (MSHC).

Distribution and frequency in the Bílé Karpaty PLA: Uncommon but found throughout the area. **General distribution:** European. **Habitat preferences:** Rhitral. **Red List status:** –.

***Ochthebius colveranus* Ferro, 1979**

(Fig. 3)

Material examined. Hroznová Lhota, Velička stream (65), 25.ix.2010, 1 ♂, M. Straka lgt. & det., D. Boukal revid. (MSHC).

Distribution and frequency in the Bílé Karpaty PLA: Found only at one site in the Velička stream. **General distribution:** Ponto-Pannonian. **Habitat preferences:** Rhitral. **Red List status:** DD.

Comments. The species is known to be distributed from Austria and north-eastern Italy to eastern Turkey and the Caucasus (JÄCH 1991). The previous entry of *O. colveranus* from the Czech Republic in the Palaearctic catalogue (JÄCH 2004) was based on a misunderstanding (see BOUKAL *et al.* 2007). The present record from the Bílé Karpaty PLA is the first finding of *O. colveranus* in the Czech Republic.

All stages of *O. colveranus* inhabit the spray zone of large, sunlit stones and rocks that project from relatively strong current and are covered with algae (JÄCH *et al.* 2005b). The ecology of *O. colveranus* (under the name of *O. exculptus*) was thoroughly studied by BEIER & POMEISL (1959). The only specimen reported here was caught in wet moss just above the water line. The reach of the Velička stream in which the species was recorded is highly morphologically degraded and seems to receive a high load of nutrients from a nearby village. It is possible that the source population lies upstream from this locality but no detailed survey was made to confirm this hypothesis.

***Ochthebius metallescens* Rosenhauer, 1847 (EN)**

Material examined. Javorník, Velička stream near Petruchovy Mlýny (77), 25.ix.2010, 2 spec., M. Straka lgt. & det. (MSHC).

Distribution and frequency in the Bílé Karpaty PLA: Found only at one site in the Velička stream. **General distribution:** European. **Habitat preferences:** Rhitral. **Red List status:** EN.

Comments. In the Czech Republic, *O. metallescens* has recently been known only from two localities in Bohemia (BOUKAL *et al.* 2007, BENEDIKT *et al.* 2011). This record confirms its recent occurrence in Moravia. It lives in flowing waters where it inhabits a zone along the water line with aquatic mosses and algae. Also the specimens here reported were collected in aquatic moss near water surface.

***Ochthebius minimus* (Fabricius, 1792)**

Published records. TRÁVNÍČEK (2010): Slavičín (21); Komňa, Lom Rasová NM (42).

Additional material examined. Komňa, Bučník quarry (40), 16.v.2007, 1 ♂, D. Trávníček lgt. & det. (MJMZ).

Distribution and frequency in the Bílé Karpaty PLA: Recorded only at three sites. **General distribution:** European. **Habitat preferences:** Detritophilous, semiaquatic. **Red List status:** –.

Comments. As the species is quite common in small standing water bodies across the Czech Republic, the small number of records in the Bílé Karpaty PLA is probably due to insufficient sampling effort in standing waters.

Family ELMIDAE

***Elmis aenea* (Ph. Müller, 1806)**

Material examined. Brumov-Bylnice, Hložecký potok stream (13), 25.iv.2006, 1 spec., M. Straka lgt. & det. (MSHC). Žitková, Vlčí potok stream (50), 15.v.2010, 2 spec., M. Straka lgt. & det. (MSHC). Suchov, Kazivec stream (73), 3.iv.2007, 1 ♀, M. Straka lgt. & det. (NC). Nová Lhota-Vápenky, Velička stream (78), 25.ix.2007, 1 spec., M. Straka lgt. & det. (MSHC).

Distribution and frequency in the Bílé Karpaty PLA: Rare and, as elsewhere in central Europe, restricted to cold streams. **General distribution:** European. **Habitat preferences:** Rhitral. **Red List status:** –.

Comments. JURAJDA *et al.* (2000) mentioned this species from the Drietomica stream basin. Unfortunately no voucher specimen is available from this study and misidentification is very likely (probably confusion with *Elmis maugetii*) and we do not accept this data in our study.

***Elmis latreillei* Bedel, 1878**

Material examined. Strání, Javorina NNR, Svinárský potok stream (86), 4.vii.2001, 6 spec., P. Kment & M. Horský lgt., D. Boukal det. (NMPC, DBCB). Nová Lhota-Vápenky, Javorina NNR – Velička springs (87),

5.v.2006, 4 spec., P. Komzák lgt., M. Straka det. (PKBC). Nová Lhota-Vápenky, Velička stream (88), 10.vi.2000, 2 ♂♂ 1 ♀, M. Horsák lgt., D. Boukal det. (MHBC).

Distribution and frequency in the Bílé Karpaty PLA: Found only in the environs of Mt. Velká Javořina in cold streams above 800 m a.s.l. **General distribution:** Central European. **Habitat preferences:** Rhitral, crenophilous. **Red List status:** –.

Elmis maugetii Latreille, 1798

Published records. TRÁVNÍČEK (2010): Vrbětice (24); Horní Němčí, Kazivec stream (35); Suchov, Kazivec stream (36, 74); Radějov, Kútky NR (69).

Additional material examined. Petrůvka, Petrůvka stream (3), 25.iv.2006, 6 spec., M. Straka lgt. & det. (MSHC). Slavičín, Lukšinka stream (5), 4.ix.2010, 15 spec., M. Straka lgt. & det. (MSHC). Vlachovice, Sviborka stream (6), 4.ix.2010, 14 spec., M. Straka lgt. & det. (MSHC). Vrbětice, Václavský potok stream (8), 8.v.2010, 8 spec., M. Straka lgt. & det. (MSHC). Brumov-Bylnice, Brumovka stream (12), 11.iv.2008, 1 spec., P. Komzák lgt. & det. (NC). Brumov-Bylnice, Hložecký potok stream (13), 25.iv.2006, 13 spec., M. Straka lgt. & det. (MSHC). Návojná, Návojná stream (16), 25.iv.2006, 6 spec., M. Straka lgt. & det. (MSHC). Záhorovice, Kladenka stream (17), 8.v.2010, 6 spec., M. Straka lgt. & det. (MSHC). Bojkovice, Koménka stream (18), 24.ix.2009, 44 spec., P. Komzák lgt. & det. (NC). Bojkovice, Koménka stream (20), 8.v.2010, 7 spec. M. Straka lgt. & det. (MSHC). Hostětín, Kolelač stream (22), 8.x.2008, 18 spec., P. Komzák lgt. & det. (NC). Rokytnice, right tributary of Rokytenka stream (25), 4.ix.2010, 13 spec., M. Straka lgt. & det. (MSHC). Popov, Zelenský potok stream (26), 5.v.2009, 66 spec., S. Větríček lgt. & det. (NC). Štítná nad Vláří, Zelenský potok stream (27), 4.ix.2010, 5 spec., M. Straka lgt. & det. (MSHC). Pitín, Olšava stream (28), 8.v.2010, 10 spec., M. Straka lgt. & det. (MSHC). Pitín, Olšava stream (29), 12.iv.2008, 1 spec., M. Straka lgt. & det. (NC). Sidonie, Vlára stream (31), 24.ix.2009, 11 spec., P. Komzák lgt. & det. (NC). Sidonie, Vlárka stream (32), 24.ix.2009, 76 spec., S. Větríček lgt. & det. (NC). Svatý Štěpán, Vlára stream (33), 1.x.2007, 1 spec., M. Straka lgt. & det. (NC). Horní Němčí, Kazivec stream (35), 24.iv.2006, 7 spec., M. Straka lgt. & det. (MSHC). Horní Němčí, Okluky stream (37), 24.iv.2006, 22 spec., M. Straka lgt. & det. (MSHC). Komňa, Koménka stream (41), 15.v.2010, 14 spec., M. Straka lgt. & det. (MSHC). Lopeník, Nivnička stream (43), 15.v.2010, 17 spec., M. Straka lgt. & det. (MSHC). Korytná, Lubná stream (44), 15.v.2010, 16 spec., M. Straka lgt. & det. (MSHC). Březová, Hradecký járek stream (46), 15.v.2010, 6 spec., M. Straka lgt. & det. (MSHC). Strání, Klanečnice stream (47), 24.iv.2006, 18 spec., M. Straka lgt. & det. (MSHC). Starý Hrozenkov, Krátkovský potok stream (53), 5.x.2009, 64 spec., P. Komzák lgt. & det. (NC). Starý Hrozenkov, Drietomice stream (54), 3.v.2005, 1 spec., P. Pařil lgt., D. Boukal det. (DBC); 6.v.2009, 18 spec., P. Komzák lgt. & det. (NC). Žitková, Žitkovský potok stream (55), 5.x.2009, 160 spec., P. Komzák lgt. & det. (NC). Starý Hrozenkov, right tributary of Drietomice stream (56), 24.iv.2006, 2 spec., M. Straka lgt. & det. (MSHC). Petrov, Radějovka stream (57), 9.x.2008, 106 spec., P. Komzák lgt. & det. (NC). Sudoměřice, Sudoměřický potok stream (59), 5.v.2009, 25 spec., S. Větríček lgt. & det. (NC); 25.viii.2009, 13 spec., M. Straka lgt. & det. (MSHC). Strážnice, Radějovka stream (60), 4.vi.2009, 30 spec., M. Straka lgt. & det. (MSHC). Radějov, Mandát stream (61), 25.ix.2010, 12 spec., M. Straka lgt. & det. (MSHC). Radějov, Sudoměřický potok stream (63), 30.iv.2007, 2 spec., M. Straka lgt. & det. (NC). Tvarožná Lhota, Járkovec stream (64), 30.vi.2007, 11 spec., J. Kadlec lgt., D. Boukal det. (JKVC), 25.ix.2010, 19 spec., M. Straka lgt. & det. (MSHC). Hroznová Lhota, Velička stream (65), 25.ix.2010, 8 spec., M. Straka lgt. & det. (MSHC). Lipov, Kuželovský potok stream (66), 25.ix.2010, 2 spec., M. Straka lgt. & det. (MSHC). Javorník, Hrubý potok stream (70), 3.x.1996, 1 ♂, L. Mencil lgt., D. Boukal det. (LMT). Suchov, Kazivec stream (73), 3.iv.2007, 3 spec., M. Straka lgt. & det. (NC). Javorník, Velička stream (76), 18.x.2008, 104 spec., P. Komzák lgt. & det. (NC). Javorník, Velička stream near Petruchovy Mlýny (77), 3.x.1990, 4 ♂♂ 2 ♀♀, L. Mencil lgt., D. Boukal det. (LMT); 25.ix.2010, 45 spec., M. Straka lgt. & det. (MSHC). Nová Lhota-Vápenky, Velička stream (78), 25.ix.2007, 8 spec., M. Straka lgt. & det. (NC). Javorník, Hrubý potok stream (80), 4.v.2009, 2 spec., P. Komzák lgt. & det. (NC). Strání-Květná, Svinárský potok stream (84), 15.v.2010, 3 spec., M. Straka lgt. & det. (MSHC). Strání-Květná, Klanečnice stream (85), 6.x.2009, 2 spec., P. Komzák lgt. & det. (NC). Strání-Květná, right tributary of Klanečnice stream (89), 28.v.2005, 1 ♀, D. Trávníček lgt. & det. (MJMZ).

Distribution and frequency in the Bílé Karpaty PLA: Very common throughout the area. **General distribution:** Western Palaearctic. **Habitat preferences:** Rhitral, usually more downstream than *E. aenea*. **Red List status:** –.

***Elmis obscura* (Ph. Müller, 1806)**

(VU)

Material examined. Sudoměřice, Sudoměřický potok stream (59), 5.v.2009, 2 spec., S. Větríček lgt. & det. (SVBC); 25.viii.2009, 9 spec., M. Straka lgt. & det. (MSHC).

Distribution and frequency in the Bílé Karpaty PLA: Found only in the Sudoměřický potok stream on the south-western edge of the area. **General distribution:** European. **Habitat preferences:** Rhitral, xylobiont. **Red List status:** VU.

Comments. *Elmis obscura* occurs in hyporhithral and epipotamal parts of streams, where it inhabits mostly trailing roots of trees (BOUKAL *et al.* 2007). The specimens reported here were found at flooded roots of ashes (*Fraxinus* sp.).

***Esolus angustatus* (Ph. Müller, 1821)**

Material examined. Brumov-Bylnice, Hložecký potok stream (13), 25.iv.2006, 2 spec., M. Straka lgt. & det. (MSHC). Návojná, Návojná stream (16), 25.iv.2006, 2 spec., M. Straka lgt. & det. (MSHC). Horní Němčí, Okluky stream (37), 24.iv.2006, 11 spec., M. Straka lgt. & det. (NC). Strání, Klanečnice stream (47), 24.iv.2006, 8 spec., M. Straka lgt. & det. (MSHC). Starý Hrozenkov, Drietomice stream (54), 6.v.2009, 2 spec., P. Komzák lgt. & det. (NC). Žitková, Žitkovský potok stream (55), 5.x.2009, 4 spec., P. Komzák lgt. & det. (NC). Tvarožná Lhota, Járkovec stream (64), 30.vi.2007, 1 spec., J. Kadlec lgt., D. Boukal det. (JKVC); 25.ix.2010, 2 spec., M. Straka lgt. & det. (MSHC). Javorník, Hrubý potok stream (70), 3.vii.1996, 1 spec., L. Mencl lgt., D. Boukal det. (LMTC). Suchov, Kazivec stream (73), 25.ix.2007, 1 spec., M. Straka lgt. & det. (NC). Javorník, Hrubý potok stream (80), 4.v.2009, 2 spec., P. Komzák lgt. & det. (NC). Strání-Květná, Svinárský potok stream (84), 15.v.2010, 3 spec., M. Straka lgt. & det. (MSHC). Strání-Květná, Klanečnice stream (85), 6.x.2009, 2 spec., P. Komzák lgt. & det. (NC). Nová Lhota-Vápenky, Velička stream (88), 10.vi.2000, 3 spec., M. Horsák lgt., D. Boukal det. (MHBC). Strání-Květná, right tributary of Klanečnice stream (89), 28.v.2005, 1 ♀, D. Trávníček lgt. & det. (MJMZ).

Distribution and frequency in the Bílé Karpaty PLA: Not rare, with most records from the broader environs of Mt. Velká Javořina. **General distribution:** Continental Europe, Turkey and Armenia. **Habitat preferences:** Rhitral, typically in colder streams. **Red List status:** –.

***Esolus parallelepipedus* (Ph. Müller, 1806)**

Material examined. Petrůvka, Petrůvka stream (3), 25.iv.2006, 1 spec., M. Straka lgt. & det. (MSHC). Sidonie, Vlárka stream (32), 24.ix.2009, 4 spec., S. Větríček lgt. & det. (NC). Starý Hrozenkov, Krátkovský potok stream (53), 5.x.2009, 2 spec., P. Komzák lgt. & det. (NC). Sudoměřice, Sudoměřický potok stream (59), 5.v.2009, 14 spec., S. Větríček lgt. & det. (NC); 25.viii.2009, 1 ♂, M. Straka lgt. & det. (MSHC). Radějov, Mandát stream (61), 25.ix.2010, 1 spec., M. Straka lgt. & det. (MSHC). Suchov, Kazivec stream (73), 3.iv.2007, 1 spec., M. Straka lgt. & det. (NC). Javorník, Velička stream (76), 18.x.2008, 4 spec., P. Komzák lgt. & det. (NC). Javorník, Velička stream near Petruchovy Mlýny (77), 25.ix.2010, 1 spec., M. Straka lgt. & det. (MSHC).

Distribution and frequency in the Bílé Karpaty PLA: Not very common but found throughout the area. **General distribution:** Western Palaearctic. **Habitat preferences:** Rhitral. **Red List status:** –.

***Limnius perrisi* (Dufour, 1834)**

Material examined. Petrůvka, Petrůvka stream (3), 25.iv.2006, 2 spec., M. Straka lgt. & det. (NC). Brumov-Bylnice, Hložecký potok stream (13), 25.iv.2006, 5 spec., M. Straka lgt. & det. (NC). Valašské Klobouky, nameless stream 600 m NW from Vrchy hill (15), 10.vi.1997, 2 ♂♂ 1 ♀, D. Trávníček lgt. & det. (MJMZ). Návojná, Návojná stream (16), 25.iv.2006, 16 spec., M. Straka lgt. & det. (MSHC). Sidonie, Vlárka stream (32), 6.v.2009, 4 larvae, S. Větríček lgt. & det. (NC). Starý Hrozenkov, Krátkovský potok stream (53), 5.x.2009, 2 spec., P. Komzák lgt. & det. (NC). Starý Hrozenkov, Drietomice stream (54), 3.v.2005, 2 spec., P. Pařil lgt., D. Boukal det. (DBCB); 6.v.2009, 2 spec., P. Komzák lgt. & det. (NC). Starý Hrozenkov, right tributary of Drietomice stream (56), 24.iv.2006, 3 spec., M. Straka lgt. & det. (MSHC). Nová Lhota-Vápenky, Velička stream (78), 3.iv.2007, 3 spec., M. Straka lgt. & det. (NC). Strání-Květná, Svinárský potok stream (84), 15.v.2010, 1 spec., M. Straka lgt. & det. (MSHC). Strání-Květná, Klanečnice stream (85), 5.v.2009, 1 spec., P. Komzák lgt. & det. (NC). Strání, Javorina NNR, Svinárský potok stream (86), 4.vii.2001, 2 spec., P. Kment & M. Horský lgt., D. Boukal det. (NMPC). Strání-Květná, right tributary of Klanečnice stream (89), 28.v.2005, 1 ♂ 1 ♀, D. Trávníček lgt. & det. (MJMZ).

Distribution and frequency in the Bílé Karpaty PLA: Not very common, found in cold streams. **General distribution:** European. **Habitat preferences:** Rhitral. **Red List status:** —.

***Limnius volckmari* (Panzer, 1793)**

Material examined. Petrůvka, Petrůvka stream (3), 25.iv.2006, 4 spec., M. Straka lgt. & det. (MSHC). Slavičín, Lukšinka stream (5), 4.ix.2010, 1 spec., M. Straka lgt. & det. (MSHC). Vlachovice, Sviborka stream (6), 4.ix.2010, 1 spec., M. Straka lgt. & det. (MSHC). Vrbětice, Václavský potok stream (8), 8.v.2010, 1 spec., M. Straka lgt. & det. (MSHC). Poteč (10), 21.v.1999, 1 spec., M. Horský lgt., D. Boukal det. (MHBC). Brumov-Bylnice, Hložecký potok stream (13), 25.iv.2006, 11 spec., M. Straka lgt. & det. (MSHC). Návojná, Návojná stream (16), 25.iv.2006, 6 spec., M. Straka lgt. & det. (MSHC). Bojkovice, Koménka stream (18), 24.ix.2009, 4 spec., P. Komzák lgt. & det. (NC). Hostětín, Kolelač stream (22), 10.iv.2008, 2 spec., P. Komzák lgt. & det. (NC). Rokytnice, right tributary of Rokytenka stream (25), 4.ix.2010, 2 spec., M. Straka lgt. & det. (MSHC). Popov, Zelenský potok stream (26), 5.v.2009, 3 spec., S. Větríček lgt. & det. (NC). Štítná nad Vláři, Zelenský potok stream (27), 4.ix.2010, 4 spec., M. Straka lgt. & det. (MSHC). Pitín, Olšava stream (28), 8.v.2010, 1 spec., M. Straka lgt. & det. (MSHC). Pitín, Olšava stream (29), 12.iv.2008, 1 spec., M. Straka lgt. & det. (NC). Svatý Štěpán, Bukový potok stream (30), 24.iv.2006, 1 spec., M. Straka lgt. & det. (NC). Sidonie, Vlára stream (31), 24.ix.2009, 3 larvae, P. Komzák lgt. & det. (NC). Sidonie, Vlárka stream (32), 24.ix.2009, 41 spec., S. Větríček lgt. & det. (NC). Horní Němčí, Okluky stream (37), 24.iv.2006, 2 spec., M. Straka lgt. & det. (NC). Komňa, Koménka stream (41), 15.v.2010, 5 spec., M. Straka lgt. & det. (MSHC). Lopeník, Nivnička stream (43), 15.v.2010, 1 spec., M. Straka lgt. & det. (MSHC). Strání, Klanečnice stream (47), 4.x.2006, 2 spec., M. Straka lgt. & det. (MSHC). Žitková, Vlčí potok stream (50), 15.v.2010, 1 spec., M. Straka lgt. & det. (MSHC). Starý Hrozenkov, Krátkovský potok stream (53), 5.x.2009, 14 spec., P. Komzák lgt. & det. (NC). Starý Hrozenkov, Drietomice stream (54), 3.v.2005, 4 spec., P. Pařil lgt., D. Boukal det. (DBCB); 6.v.2009, 10 spec., P. Komzák lgt. & det. (NC). Žitková, Žitkovský potok stream (55), 5.x.2009, 20 spec., P. Komzák lgt. & det. (NC). Starý Hrozenkov, right tributary of Drietomice stream (56), 24.iv.2006, 1 spec., M. Straka lgt. & det. (MSHC). Petrov, Radějovka stream (57), 9.x.2008, 2 spec., P. Komzák lgt. & det. (NC). Sudoměřice, Sudoměřický potok stream (59), 5.v.2009, 4 spec., S. Větríček lgt. & det. (NC). Strážnice, Radějovka stream (60), 4.vi.2009, 1 spec., M. Straka lgt. & det. (MSHC). Radějov, Mandát stream (61), 25.ix.2010, 2 spec., M. Straka lgt. & det. (MSHC). Radějov, Sudoměřický potok stream (63), 30.iv.2007, 2 spec., M. Straka lgt. & det. (NC). Tvarožná Lhota, Járkovec stream (64), 25.ix.2010, 1 spec., M. Straka lgt. & det. (MSHC). Javorník, Hrubý potok stream (70), 3.vii.1996, 8 spec., L. Mencl lgt., D. Boukal det. (LMTC). Suchov, Kazivec stream (73), 3.iv.2007, 2 spec., M. Straka lgt. & det. (NC). Javorník, Velička stream (76), 18.x.2008, 7 spec., P. Komzák lgt. & det. (NC). Javorník, Velička stream near Petruchovy Mlýny (77), 25.ix.2010, 4 spec., M. Straka lgt. & det. (MSHC). Nová Lhota-Vápenky, Velička stream (78), 3.iv.2007, 1 spec., M. Straka lgt. & det. (NC). Javorník, Hrubý potok stream (80), 7.x.2009, 6 spec., P. Komzák lgt. & det. (NC). Javorník, Teplica stream (81),

19.ix.2006, 1 spec., P. Komzák lgt. & det. (NC). Strání-Květná, Svinárský potok stream (84), 15.v.2010, 1 spec., M. Straka lgt. & det. (MSHC). Strání-Květná, Klanečnice stream (85), 6.x.2009, 4 larvae, P. Komzák lgt. & det. (NC); 25.viii.2009, 3 spec., M. Straka lgt. & det. (MSHC).

Distribution and frequency in the Bílé Karpaty PLA: Very common throughout the area. **General distribution:** Western Palaearctic. **Habitat preferences:** Rhitral, usually downstream of *L. perrisi*. **Red List status:** –.

Riolus cupreus (Ph. Müller, 1806)

(VU)

Published records. BOUKAL *et al.* (2007): Suchov, Velička stream (75).

Additional material examined. Vrbětice, Václavský potok stream (8), 8.v.2010, 1 spec., M. Straka lgt. & det. (MSHC). Bojkovice, Koménka stream (18), 24.ix.2009, 2 spec., P. Komzák lgt. & det. (NC). Korytná, Lubná stream (44), 15.v.2010, 9 spec., M. Straka lgt. & det. (MSHC). Starý Hrozenkov, Drietomice stream (54), 6.v.2009, 2 spec., P. Komzák lgt. & det. (NC). Žitková, Žitkovský potok stream (55), 5.x.2009, 16 spec., P. Komzák lgt. & det. (NC). Petrov, Radějovka stream (57), 9.x.2008, 2 ♂♂ 2 ♀♀, P. Komzák lgt. & det. (PKBC). Sudoměřice, Sudoměřický potok stream (59), 25.viii.2009, 2 ♂♂ 1 ♀, M. Straka lgt. & det. (MSHC). Radějov, Mandát stream (61), 25.ix.2010, 3 spec., M. Straka lgt. & det. (MSHC). Tvarožná Lhota, Járkovec stream (64), 25.ix.2010, 1 spec., M. Straka lgt. & det. (MSHC). Hroznová Lhota, Velička stream (65), 25.ix.2010, 4 spec., M. Straka lgt. & det. (MSHC). Javorník, Velička stream (76), 18.x.2008, 4 spec., P. Komzák lgt. & det. (NC). Javorník, Velička stream near Petruchovy Mlýny (77), 25.ix.2010, 28 spec., M. Straka lgt. & det. (MSHC).

Distribution and frequency in the Bílé Karpaty PLA: Not rare; found throughout the area, with most of the records from its southern part. **General distribution:** European. **Habitat preferences:** Rhitral, mostly in calcareous streams. **Red List status:** VU.

Comments. A very rare and local species in the Czech Republic, recently known from a few localities in central Bohemia and southern Moravia (BOUKAL *et al.* 2007). The Bílé Karpaty PLA represents the main area of its occurrence in the Czech Republic.

Riolus subviolaceus (Ph. Müller, 1817)

Published records. TRÁVNÍČEK (2010): Suchov, Kazivec stream (74).

Additional material examined. Petrůvka, Petrůvka stream (3), 5.x.2006, 2 spec., M. Straka lgt. & det. (MSHC). Poteč, left tributary of Brumovka stream (11), 14.v.2006, 2 ♂♂ 2 ♀♀, P. Komzák lgt. & det. (PKBC). Návojná, Návojná stream (16), 25.iv.2006, 1 spec., M. Straka lgt. & det. (MSHC). Bojkovice, Koménka stream (18), 24.ix.2009, 28 spec., P. Komzák lgt. & det. (NC). Bojkovice, Koménka stream (20), 8.v.2010, 1 ♂ 3 ♀♀, M. Straka lgt. & det. (MSHC). Popov, Zelenský potok stream (26), 5.v.2009, 26 spec., S. Větríček lgt. & det. (NC). Štítná nad Vláří, Zelenský potok stream (27), 4.ix.2010, 4 spec., M. Straka lgt. & det. (MSHC). Pitín, Olšava stream (28), 8.v.2010, 4 spec., M. Straka lgt. & det. (MSHC). Svatý Štěpán, Bukový potok stream (30), 24.iv.2006, 1 spec., M. Straka lgt. & det. (MSHC). Sidonie, Vlára stream (31), 6.v.2009, 2 larvae, P. Komzák lgt. & det. (NC). Sidonie, Vlárka stream (32), 24.ix.2009, 34 spec., S. Větríček lgt. & det. (NC). Horní Němčí, Okluky stream (37), 24.iv.2006, 1 spec., M. Straka lgt. & det. (MSHC). Lopeník, Nivnička stream (43), 15.v.2010, 1 spec., M. Straka lgt. & det. (MSHC). Březová, Cestiska NM (45), 28.iv.2007, 1 ♂ 1 ♀, T. Sitek lgt., D. Boukal det. (TSOC). Strání, Klanečnice stream (47), 4.x.2006, 3 spec., M. Straka lgt. & det. (MSHC). Lopeník, Hrubý Mechnáč (48), 25.iv.2000, 2 ♂♂ 2 ♀♀, M. Horsák lgt., D. Boukal det. (MHBC); 3.vii.2006, 5 spec., J. Bojková lgt., M. Straka det. (MSHC). Žitková, Hutě NR (51), 3.vii.2006, 1 spec., M. Straka lgt. & det. (MSHC). Starý Hrozenkov, Krátkovský potok stream (53), 5.x.2009, 18 spec., P. Komzák lgt. & det. (NC). Starý Hrozenkov, Drietomice stream (54), 3.v.2005, 8 spec., P. Pařil lgt., D. Boukal det. (DBC); 6.v.2009, 16 spec., P. Komzák lgt. & det. (NC). Žitková, Žitkovský potok stream (55), 5.x.2009, 8 spec., P. Komzák lgt. & det. (NC). Starý Hrozenkov, right tributary of Drietomice stream (56), 24.iv.2006, 3 spec., M. Straka lgt. & det.

(MSHC). Sudoměřice, Sudoměřický potok stream (59), 5.v.2009, 12 spec., S. Větrčíček lgt. & det. (NC). Javorník, Hrubý potok stream (70), 3.x.1996, 2 ♂♂ 2 ♀♀, L. Mencl lgt., D. Boukal det. (LMTC). Suchov, Kazivec stream (73), 3.iv.2007, 2 spec., M. Straka lgt. & det. (NC). Javorník, Velička stream (76), 18.x.2008, 2 spec., P. Komzák lgt. & det. (NC). Javorník, Velička stream near Petruchovy Mlýny (77), 25.ix.2010, 31 spec., M. Straka lgt. & det. (MSHC). Nová Lhota-Vápenky, Velička stream (78), 3.iv.2007, 2 spec., M. Straka lgt. & det. (MSHC). Javorník, Hrubý potok stream (80), 7.x.2009, 8 spec., P. Komzák lgt. & det. (NC). Strání-Květná, Svinárský potok stream (84), 15.v.2010, 3 spec., M. Straka lgt. & det. (MSHC). Strání-Květná, Klanečnice stream (85), 6.x.2009, 2 spec., P. Komzák lgt. & det. (NC). Nová Lhota-Vápenky, Javorina NNR – Velička springs (87), 14.viii.2009, 2 spec., M. Horsák lgt., D. Boukal det. (MHBC). Strání-Květná, right tributary of Klanečnice stream (89), 28.v.2005, 1 ♂, D. Trávníček lgt. & det. (MJMZ).

Distribution and frequency in the Bílé Karpaty PLA: Common throughout the area. **General distribution:** European. **Habitat preferences:** Rhitral, mostly in calcareous streams. **Red List status:** –.

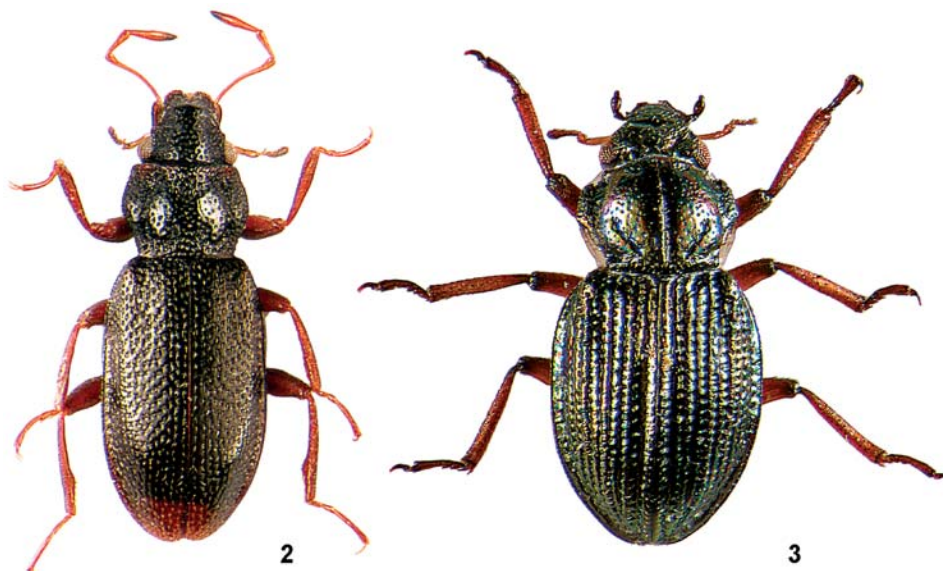
Discussion and conclusions

Before the work described in this paper, the distribution of Hydraenidae and Elmidae in the Bílé Karpaty PLA was virtually unknown. Extensive surveys in 1994–2010 recorded 18 species of the family Hydraenidae and 10 species of the family Elmidae in the area. Most of the localities studied consist of smaller or larger streams, and hence most frequently recorded are common rheophilic species such as *Hydraena gracilis*, *H. nigrita*, *Elmis maugetii* and *Limnius volckmari*. Only a few localities consist of helocrene springs or fens, which harbour specialized oligostenothermic species such as *Hydraena morio* and *Elmis latreillei*. Moreover, only a few sites consist of standing waters. We have thus recorded only a limited number of localities for species that live in standing water and are quite common elsewhere in southern Moravia, such as *Ochthebius minimus* and *Limnebius papposus*.

For the Hydraenidae and Elmidae, the most valuable habitats in the area studied are well-preserved, warm lowland streams. This habitat is highly degraded throughout central Europe, either due to direct changes to stream morphology or to intensive agriculture, which leads to eutrophication and clogging of streambeds. The Bílé Karpaty PLA thus remains a significant refuge for many species with past wider distributions and currently highly fragmented populations, such as *Hydraena belgica*, *H. minutissima*, *H. pulchella*, *Ochthebius metallescens*, *Elmis obscura* and *Riolus cupreus*.

Further, most of the streams in the Bílé Karpaty PLA are highly calcareous. *Riolus cupreus*, which is rare in most other parts of the Czech Republic and is confined to calcareous streams (BOUKAL *et al.* 2007, ELLIOTT 2008), is common in the area. The absence of *Hydraena dentipes*, common in other mountain and hilly areas in the Czech Republic, may be due to its intolerance of calcareous substrate (according to d'Orchymont in HRBÁČEK 1951).

Several remarkable discoveries were made during the surveys. First, a relict population of *Hydraena rufipes* was revealed. This species has a continuous distribution area in western Europe and reaches central Europe in the form of a couple of isolated relict populations. The new population is apparently limited to a very small area in the southern part of the Bílé Karpaty PLA (Sudoměřický potok and Radějovka streams,



Figs 2–3. 2 – *Hydraena rufipes* Curtis: male habitus in dorsal view, body size 2.1 mm; 3 – *Ochthebius colveranus* Ferro: habitus in dorsal view, body size 2.0 mm.

including the Járkovec tributary) and represents the easternmost population of the species. Another surprise was the occurrence of *Ochthebius colveranus*. The Bílé Karpaty Mts. apparently lie at the north-western border of the distribution area of this Ponto-Pannonian species (disregarding a doubtful record from Denmark, see e.g. BOUKAL *et al.* 2007) and the specimen found is the first record of this species in the Czech Republic. Since only one specimen was found, it is clear that more detailed research is needed to evaluate its conservation status. Without any doubt, both *H. rufipes* and *O. colveranus* are very rare in the Czech Republic and may be threatened with extinction.

Three additional species were not included in the list in this paper although they may also belong to the recent fauna of the Bílé Karpaty PLA: *Ochthebius gibbosus* Germar, 1824, *Limnebius crinifer* Rey, 1885 and *Ochthebius crenulatus* Mulsant et Rey, 1850. All of these have been collected either inside or just outside the area in the past. We have seen one specimen of *O. gibbosus* labelled “Valašské Klobouky, Dr. Richter”, probably collected in the 1930’s and deposited in the Museum of South-eastern Moravia in Zlín. This species was also reported by KODADA (1992) for the eastern slopes of the White Carpathian Mts. in Slovakia, and its recent occurrence in the Bílé Karpaty PLA is therefore very likely. One specimen of *L. crinifer* Rey, 1885 labelled as “Luhačovice, vi. 1944, Hájek lgt.” is deposited in the National Museum, Prague. Finally, one specimen of *O. crenulatus* labelled “Valašské Klobouky, Dr. Richter lgt.” is deposited in the Museum

of South-eastern Moravia in Zlín (see also BOUKAL *et al.* 2007). The (recent) occurrence of the latter two species in the Bílé Karpaty PLA needs confirmation.

To sum up, we consider the beetle fauna of flowing waters in the Bílé Karpaty PLA as to be very well-preserved and conclude that the streams are of high conservation value. The area serves as a refuge for many species that are rare and endangered in other parts of the Czech Republic and even in the whole of central Europe. Altogether seven of the recorded species are included in the Red List of threatened species in the Czech Republic. Two species are classified as endangered (*Hydraena pulchella* and *Ochthebius metallescens*), three as vulnerable (*Hydraena morio*, *Elmis obscura* and *Riolus cupreus*) and two as near-threatened (*Hydraena belgica* and *Hydraena schuleri*) (FARKAČ *et al.* 2005, BOUKAL *et al.* 2007).

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Souhrn

Vodanovití a vodnářovití (Coleoptera: Hydraenidae, Elmidae) Chráněné krajinné oblasti a biosférické rezervace Bílé Karpaty.

Při průzkumech v letech 1994–2010 bylo na území CHKO Bílé Karpaty nalezeno celkem 18 druhů čeledi Hydraenidae a 10 druhů čeledi Elmidae. Tři další druhy čeledi Hydraenidae jsou z oblasti známé historicky. Druh *Ochthebius colveranus* byl zaznamenán poprvé na území České republiky. Spolu s nedávno publikovaným objevem populace druhu *Hydraena rufipes* jde o nejvýznamnější nálezy pocházející ze současných průzkumů. Dále se podařilo potvrdit recentní výskyt druhů *Hydraena minutissima* a *Ochthebius metallescens* na Moravě. V práci je uveden úplný výčet dříve publikovaných i nových nálezů ze sledovaného území a u každého druhu je doplněn stručný komentář k jeho biologii a významu pro ochranu přírody. Dva z nalezených druhů jsou v Červeném seznamu ohrožených bezobratlých ČR (FARKAČ *et al.* 2005) klasifikovány jako ohrožené (*Hydraena pulchella* a *Ochthebius metallescens*), tři jako zranitelné (*Hydraena morio*, *Elmis obscura* a *Riolus cupreus*) a dva jako téměř ohrožené (*Hydraena belgica* a *Hydraena schuleri*). Výsledky provedených průzkumů ukázaly faunu tekoucích vod Bílých Karpat jako velice dobře zachovalou s vysokou ochrannářskou hodnotou. Oblast poskytuje útočiště mnoha druhům, které jsou v ostatních částech České republiky i celé střední Evropy velice vzácné a ohrožené.

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Water penny beetles (Coleoptera: Psephenidae) of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic)

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KONVIČKA O. 2012: Water penny beetles (Coleoptera: Psephenidae) of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic). In: MALENOVSKÝ I., KMENT P. & KONVIČKA O. (eds.): Species inventories of selected insect groups in the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic). *Acta Musei Moraviae, Scientiae biologicae* (Brno) **96(2)** (2011): 691–696. – Only one species of the family Psephenidae, *Eubria palustris* (Germar, 1818), occurs in Europe including the Czech Republic. In the Bílé Karpaty Protected Landscape Area and Biosphere Reserve, *E. palustris* was known before this study from six localities published by HORSÁK *et al.* (2001). This paper confirms the occurrence of *E. palustris* at three of them and newly reports it from 15 additional sites. Including all published findings, *E. palustris* is currently known from 21 sites in the Bílé Karpaty. It occurs locally in well-preserved spring fens across most of the Czech part of the mountains.

Key words. *Eubria palustris*, faunistics, habitat conservation, spring fens, White Carpathians, Moravia, Czech Republic

Introduction

The Psephenidae constitutes a small family of beetles from the superfamily Byrrhoidea, with strictly aquatic larvae and terrestrial adults. Only one species, *Eubria palustris* (Germar, 1818), occurs in Europe including the Czech Republic. It is considered a relict species with a narrow ecological valence, inhabiting helocrene springs in meadows. It is rare in the Czech Republic and classified as endangered (BOUKAL 2007). In Moravia, *E. palustris* has recently been found only in the Bílé Karpaty [White Carpathians] Protected Landscape Area and Biosphere Reserve (abbreviated to Bílé Karpaty PLA hereafter) and the Moravskoslezské Beskydy Mts. [Moravian-Silesian Beskids] (HORSÁK *et al.* 2001, STANOVSKÝ 2005, BOUKAL 2007). The species may be more frequent in neighbouring Slovakia, where e.g. ROUBAL (1936) recorded it as common from lowlands to mountains.

The present paper summarizes the known occurrence of *E. palustris* in the Bílé Karpaty PLA based on already-published information and recent field work in the area.

Material and methods

The adults of *E. palustris* were collected by sweeping vegetation in spring fens and the areas around them throughout the Bílé Karpaty PLA in the years 2006–2011. Larvae were collected either directly with a water net or by straining sample substrate through a

sieve in the course of a sampling programme that covered the entire invertebrate benthic fauna of springs (carried out by the Department of Botany and Zoology, Masaryk University, Brno). The general characteristics of the natural history of the whole area under study may be found in KUČA *et al.* (1992), MACKOVČIN & JATIOVÁ (2002), JONGEPIEROVÁ (2008) and KONVIČKA *et al.* (2011). The morphological diagnosis for larvae and adults of *E. palustris* is available in e.g. KLAUSNITZER (1996a,b). The voucher material for all records is deposited in the collections of the individual collectors (see Acknowledgements for details).

The following abbreviations are used in this paper: NM – Nature Monument, NNR – National Nature Reserve, NR – Nature Reserve (all of these are the various categories and terms specified by the Czech system of legally protected natural areas); BZMU – collection of the Department of Botany and Zoology, Masaryk University, Brno; EN – endangered (a category derived from the Red List of threatened invertebrates of the Czech Republic, *cf.* BOUKAL 2007).

List of collecting sites

Each entry in the list of collecting sites is arranged as follows: number of locality, name of the nearest village or town, local name of the collecting site or name of a small-scale protected area (reserve) where appropriate, code of the field (in parentheses) in the faunistic and floristic grid mapping system of central Europe (EHRENDORFER & HAMANN 1965, PRUNER & MÍKA 1996, each basic field divided into 16 subfields, *cf.* KONVIČKA *et al.* 2011), GPS coordinates, altitude, and habitat.

1. Valašské Klobouky, Dobšená NM (6874c1), 49°07'56"N 18°02'06"E, 575 m a.s.l.; wet meadow, small forest brook, spring areas.
2. Valašské Klobouky, Javorůvky NR (6874c1), 49°08'04"N 18°01'58"E, 540 m a.s.l.; wet meadows, small forest brooks, spring areas, slope treeless tufa fens.
3. Valašské Klobouky, Bílé potoky NR (6874c3), 49°06'56"N 18°01'39"E, 430–460 m a.s.l.; left tributary of Brumovka stream, spring areas.
4. Nedašov, Jalovcová stráž NR (6874d3); 49°06'06"N 18°05'28"E, 565 m a.s.l.; small brook, spring areas, pastures with scattered shrubs on slopes.
5. Svatý Štěpán, Chladný vrch NM (6974c1), 49°01'34"N 18°00'32"E, 595 m a.s.l.; forest swamps, crib, small pond.
6. Horní Němčí, Drahy NR (7071d4), 48°55'17"N 17°38'22"E, 450 m a.s.l.; former sheep and goat pasture with dry, short-stemmed grassland, slope spring fen.
7. Horní Němčí, Za lesem NM (7071d4), 48°54'21"N 17°39'10"E, 600 m a.s.l.; mesic meadow, pool.
8. Slavkov, Kolo (7071d4), 48°54'07"N 17°37'30"E, 505 m a.s.l.; large spring fen with orchids.
9. Vápenice, V Krátkých NM (7072b4), 48°57'27"N 17°49'30"E, 480 m a.s.l.; mesic meadows with orchids, swamps.
10. Březová, Kalábová NM (7072c2), 48°56'22"N 17°44'39"E, 518–550 m a.s.l.; forest spring areas, slope treeless calcareous fens with tufa formation.
11. Lopeník, Hrubý Mechnáč (7072d2), 48°56'35"N 17°47'52"E, 640–650 m a.s.l.; spring area, tufa fens.
12. Vyškovec, Vyškovecké Bošačky (7072d2), 48°56'07"N 17°49'46"E, 665 m a.s.l.; meadow spring areas, slope treeless calcareous fens with tufa formation, pastures.

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13. Žitková, Hutě NR (7073a2), 48°59'29"N 17°54'25"E, 460–520 m a.s.l.; spring areas.
14. Vyškovec, Chmelinec NM (7073c1), 48°56'25"N 17°51'17"E, 435–440 m a.s.l.; meadow spring area.
15. Kněždub, Čertoryje NNR (7170a4), 48°51'26"N 17°24'29"E, 330 m a.s.l.; meadows with scattered trees, spring areas.
16. Radějov, Kútky NR (7170c2), 48°49'42"N 17°22'20"E, 415 m a.s.l.; wet meadows, pastures of fallow deers, several small springs.
17. Javorník, Megovka (7171a4/b3/c2/d1), 48°50'59"N 17°34'55"E, 470–500 m a.s.l.; mesic meadow surrounded by forest, swamp, slope spring areas.
18. Nová Lhota, Končiny (7171b3), 48°52'05"N 17°37'05"E, 450–470 m a.s.l.; mesic meadow dominated by *Arrhenatherum elatius*, spring fen and wetland vegetation, surrounded by mixed forest.

List of localities of *Eubria palustris* in the Bílé Karpaty PLA

Individual records are ordered according to the number of the collecting site. Each unpublished record is arranged as follows: name of the collecting site and its number (in parentheses), date of collection, number and stage of specimens, collector, determiner and collection. The records published by HORSÁK *et al.* (2001) are associated with the subfield code number in the faunistic and floristic grid mapping system of central Europe in parentheses.

***Eubria palustris* (Germar, 1818)**

(EN)

Published records. HORSÁK *et al.* (2001): Valašské Klobouky, 1 km S of town (6874c1); Valašské Klobouky, Bílé potoky NR (6874c3); Valašské Klobouky, Dobšená NM (6874c1); Horní Němčí, Drahy NR (7071d4); Strání, Hrnčárky NM (7072c3); Vápenice, W of village (7072b4).

Material examined. Valašské Klobouky, Dobšená NM (1), 10.vi.2008, many adults, P. Boža lgt., det. & coll.; 21.v.2010, 8 larvae, J. Bojková & V. Rádková lgt. & det., coll. BZMU; 28.vi.2011, 2 adults, O. Konvička lgt., det. & coll. Valašské Klobouky, Javorůvky NR (2), 10.vi.2008, many adults, P. Boža lgt., det. & coll.; 21.v.2010, 3 larvae and 9.ix.2010, 10 larvae, all J. Bojková & V. Rádková lgt. & det., coll. BZMU. Valašské Klobouky, Bílé potoky NR (3), 4.vii.2006, 1 larva, J. Bojková & V. Rádková lgt. & det., coll. BZMU. Nedašov, Jalovcová stráž NR (4), 2.vi.2008, 1 adult, O. Konvička lgt., det. & coll. Svatý Štěpán, Chladný vrch NM (5), 18.vi.2007, 1 adult, O. Konvička lgt., det. & coll. Horní Němčí, Drahy NR (6), 29.vi.2008, 2 adults, O. Konvička lgt., det. & coll.; 13.vii.2010, 1 adult, L. Koloničný lgt., det. & coll. Horní Němčí, Za lesem NM (7), 1.vii.2008, 2 adults, J. Stanovský lgt., det. & coll. Slavkov, Kolo (8), 15.vi.2011, 2 adults, O. Konvička lgt., det. & coll. Vápenice, V Krátkých NM (9), 8.vi.2007, many adults, J. Stanovský lgt., det. & coll.; 11.vi.2010, 4 adults, O. Konvička lgt., det. & coll. Březová, Kalábová NM (10), 21.iv.2009, 3 adults, J. Stanovský lgt., det. & coll.; 28.v.2009, 2 adults, O. Konvička lgt., det. & coll. Lopeník, Hrubý Mechnáč (11), 30.iv.2006, 2 larvae; 3.vii.2006, 1 adult, 46 larvae; all J. Bojková & V. Rádková lgt., J. Bojková, V. Rádková & J. Sychra det., coll. BZMU. Vyškovec, Vyškovecké Bošačky (12), 4.vi.2009, 1 adult, O. Konvička lgt., det. & coll. Žitková, Hutě NR (13), 30.iv.2006, 4 larvae; 22.ix.2006, 5 larvae; all J. Bojková & V. Rádková lgt. & det., coll. BZMU. Vyškovec, Chmelinec NM (14), 30.iv.2006, 2 larvae; 3.vii.2006, 1 larva; all J. Bojková & V. Rádková lgt. & det., coll. BZMU. Kněždub, Čertoryje NNR (15), 28.vi.2008, 2 adults, 3.vii.2008, 7 adults, 12.vii.2009, 1 adult, all O. Konvička lgt., det. & coll.; 28.vi.2008, 3 adults, T. Sitek lgt. & coll., J. Vávra det. Radějov, Kútky NR (16), 25.vi.2010, 1 adult, T. Sitek lgt., det. & coll.; 25.vi.2010, 1 adult, J. Vávra lgt., det. & coll. Javorník, Megovka (17), 24.vi.2010, 2 adults, O. Konvička lgt., det. & coll.; 24.vi.2010, 5 adults, P. Kresl lgt. & coll., J. Vávra det. Nová Lhota, Končiny (18), 13.vi.2007, many adults, O. Konvička lgt., det. & coll.

Discussion and conclusions

Previous to this study, *E. palustris* had been recorded from six localities in the Bílé Karpaty PLA (HORSÁK *et al.* 2001). Recent field work in the area confirmed its occurrence at three of these sites (the remaining three sites cited by HORSÁK *et al.* (2001) were not revisited in the course of this work, but the continuing occurrence of *E. palustris* in them is probable) and recorded it from 15 new localities. Including all published findings, *E. palustris* is thus currently known from 21 sites in the Bílé Karpaty PLA. It occurs locally across most of the Czech part of the White Carpathian Mts., except around the towns of Bojkovice, Luhačovice and Slavičín. The absence of the species in the latter areas may be due to their more intensive agricultural land use in historical and recent times, including frequent draining of wetlands in the past that resulted in the loss of suitable habitats. The occurrence of *E. palustris* currently indicates well-preserved, biologically valuable spring fens, usually with the presence of cottongrass (*Eriophorum latifolium* and *E. angustifolium*). In addition, the close neighbourhood of most of the sites at which *E. palustris* has been found is characterized by a high richness of plant species. However, the exact ecological requirements of *E. palustris* in the Bílé Karpaty PLA remain unknown and should be addressed by future studies.

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Souhrn

Vejčticovítí (Coleoptera: Psephenidae) Chráněné krajinné oblasti a biosférické rezervace Bílé Karpaty. Údaje o výskytu brouků z čeledi Psephenidae (vejčticovítí) na území Chráněné krajinné oblasti a Biosférické rezervace Bílé Karpaty (tj. moravské části pohoří Bílé Karpaty) byly zatím známe pouze z článku HORSÁKA *et al.* (2001). Kromě jednoho historického a jednoho recentního nálezu v Beskydech (STANOVSKÝ 2005) se zároveň jednalo o jediné známé recentní lokality na Moravě (BOUKAL 2007). Vzhledem k tomu, že jediný druh čeledi, který se vyskytuje v Evropě včetně České republiky, *Eubria palustris* (Germar, 1818), je striktně vázán na luční prameniště, byly lokality s takovými biotopy v CHKO Bílé Karpaty v letech 2006 až 2011 systematicky navštěvovány a zkoumány metodou smyku prameništní vegetace. Zahrnuty jsou i nálezy larev *E. palustris*, získané při sběru ostatní fauny bezobratlých živočichů žijících na prameništích, a to buď přímo sítí k odběru bentosu nebo scezením odebraného substrátu přes sítku. Na třech již známých lokalitách (viz HORSÁK *et al.* 2001) se podařilo výskyt potvrdit (na zbylých třech *E. palustris* cíleně hledán nebyl; vzhledem k tomu, že se biotopy nezměnily, lze předpokládat, že se tam pravděpodobně vyskytuje i v současnosti), zároveň byl druh nalezen na patnácti nových místech. Včetně všech publikovaných nálezů je tak druh *E. palustris* nyní znám v CHKO Bílé Karpaty z 21 lokalit. Vyskytuje se lokálně na většině území moravské strany Bílých Karpat, kromě okolí Bojkovic, Luhačovic a Slavičina. Důvodem je zřejmě to, že tyto oblasti historicky byly

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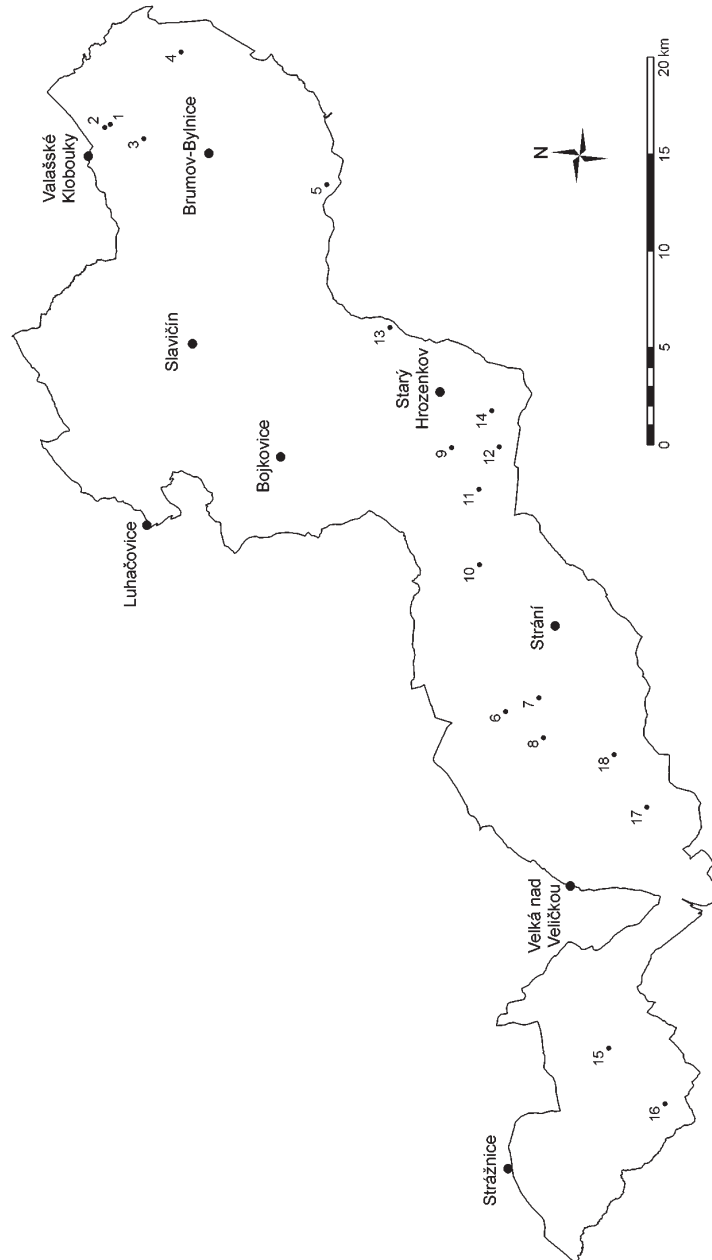


Fig. 1. A simplified map of the Bílé Karpaty Protected Landscape Area with the localities of *Eubria palustris* (Germar).

a v současnosti jsou intenzivněji zemědělsky využívány, s čímž souvisí i v minulosti často prováděná odvodňování zamokřených ploch. Kvůli tomu došlo k úbytku a zániku vhodných biotopů. *Eubria palustris* dnes indikuje svým výskytem zachovalá, biologicky hodnotná prameniště, většinou s porosty suchopýřů (*Eriophorum latifolium* a *E. angustifolium*) a druhově bohatou vegetací v blízkém okolí. Ekologické nároky druhu však zatím nejsou přesně známy a bylo by vhodné jim do budoucna věnovat podrobnější pozornost.

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Caddis flies (Trichoptera) of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic)

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KOMZÁK P. & CHVOJKA P. 2012: Caddis flies (Trichoptera) of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic). In: MALENOVSKÝ I., KMENT P. & KONVIČKA O. (eds.): Species inventories of selected insect groups in the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic). *Acta Musei Moraviae, Scientiae biologicae* (Brno) **96(2)** (2011): 697–761. – An extensive survey of caddis flies (Trichoptera) was carried out in the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (south-eastern Moravia, Czech Republic) in 2004–2010. A total of 121 species were found, including several species recorded for the first time for the Czech Republic (*Synagapetus armatus* (McLachlan, 1879), *S. dubitans* McLachlan, 1879, *Hydroptila lotensis* Mosely, 1930, and *H. vichtaspa* Schmid, 1959) or Moravia (*Rhyacophila pubescens* Pictet, 1834, *Hydroptila angulata* Mosely, 1922, *H. angustata* Mosely, 1939, *Hydropsyche fulvipes* (Curtis, 1834), *Agrypnia varia* (Fabricius, 1793), and *Ernodes vicinus* (McLachlan, 1879)). Altogether, with two species collected only in the 1950s, 123 species (48% of the fauna of the Czech Republic) were documented from the area, including many species rare or threatened at national level (seven of them are classified as critically endangered, three as endangered, and 11 as vulnerable species in the Red List of threatened invertebrates of the Czech Republic). Abundant populations of calciphilous species *Rhyacophila pubescens* and *Tinodes unicolor* (Pictet, 1834) in calcareous spring areas and brooks and many crenophilous species in springs, including some rare Glossosomatidae and Beraeidae, are particularly significant from the viewpoint of nature conservation. From the biogeographical viewpoint, the occurrences of several Carpathian species (*Synagapetus armatus*, *Chaetopteryx polonica* Dziędzielewicz, 1889, and *Potamophylax carpathicus* (Dziędzielewicz, 1912)) that reach their westernmost limits of distribution in the Bílé Karpaty Mts. and of the Ponto-Mediterranean species *Hydroptila vichtaspa* are the most noteworthy.

Key words. Trichoptera, faunistics, biogeography, species conservation, aquatic habitats, White Carpathians, Moravia, Czech Republic

Introduction

The Trichoptera (caddis flies) constitute the largest order of semi-aquatic insects, with more than 13,500 valid species known worldwide. Immature stages generally develop in freshwater habitats (springs and spring areas, streams, lakes, peat bogs, temporary pools, etc.), while adults are terrestrial. The larvae and pupae make up, especially in running waters, a considerable proportion of the benthic biomass and they have an important role in food webs in aquatic ecosystems.

The caddis fly fauna of the Czech Republic is quite well documented (*cf.* CHVOJKA & KOMZÁK 2008). However, extensive surveys in eastern Moravia have recently resulted in additional new records for the country (CHVOJKA *et al.* 2009, KOMZÁK & KROČA 2011). A total of 258 species of Trichoptera is currently known from the Czech Republic (KOMZÁK & KROČA 2011), of which 244 occur in Bohemia and 224 in Moravia. Altogether 84 species are included in the Red List of threatened Czech invertebrates, nine

of them classified as regionally extinct, 19 as critically endangered, 26 as endangered, and 30 as vulnerable (CHVOJKA *et al.* 2005).

The caddis fly fauna of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (abbreviated to the Bílé Karpaty PLA hereafter), situated in south-eastern Moravia (see KUČA *et al.* 1992, MACKOVČIN & JATIOVÁ 2002, JONGEPIEROVÁ 2008, and KONVIČKA *et al.* 2011 for detailed characteristics of the natural history of the area), was almost unknown before 2004. Although the aquatic insects of some streams in the Bílé Karpaty Mts. [White Carpathians] were sampled in 1958, only scant Trichoptera material was obtained at the time. Records of just three species (*Lype phaeopa*, *Athripsodes bilineatus*, and *Leptocerus interruptus*) were published from that survey (OBR 1969) and the rest of the material remained unpublished until the current study. Faunistic research in the area was not resumed until the late 1990s, when two other species (*Hydroptila forcipata* and *Potamophylax carpathicus*) were found and reported in literature (CHVOJKA & NOVÁK 2001), and then particularly after 2004 by the two authors of this paper. In a series of faunistic contributions, KOMZÁK & CHVOJKA (2005), CHVOJKA & KOMZÁK (2008), CHVOJKA *et al.* (2009), and KOMZÁK & KROČA (2011) published findings of *Rhyacophila pubescens*, *Synagapetus armatus*, *S. dubitans*, *Hydroptila angulata*, *H. angustata*, *H. lotensis*, *H. vichtaspa*, *Hydropsyche fulvipes*, *Agrypnia varia*, and *Ernodes vicinus* from the Bílé Karpaty PLA as new records for the territories of the Czech Republic or Moravia, all based on recently-collected material. Caddis larvae and other macroinvertebrates were also sampled during the ichthyological surveys in the Drietomice stream basin and Vlára river basin (JURAJDA *et al.* 2000, 2007). In the former paper seven taxa of Trichoptera are listed on the basis of larval identifications, which we do not consider reliable and we do not take these distributional data into account here; in the later paper no particular caddis fly species are mentioned. Finally, KŘOUPALOVÁ *et al.* (2011) studied the distribution of aquatic macroinvertebrates in a calcareous fen in the Bílé potoky nature reserve near Valašské Klobouky.

In this paper we summarize all the previously published records of Trichoptera from the Bílé Karpaty PLA, present previously unpublished records from the 1958 survey by S. Obr, and, especially, evaluate the extensive material we collected in a detailed survey of the area undertaken in recent years.

Material and methods

Most of the material cited in this study was collected in 2004–2010. During this period, attention was paid to every type of aquatic habitat in the study area. Material was obtained by standard entomological methods, with the emphasis on imagines and ripe pupae. Adults were collected largely by sweeping and also with Malaise traps, yellow pan traps and light traps (with black light). Pupae and larvae were sampled by hand-net or picked up individually from the bottom substratum. All material was preserved in 70–80% ethanol in the field. Adult specimens of Trichoptera collected by S. Obr in the study area in 1958 were also examined. All material was identified by the authors; theirs is stored in vials in 70% ethanol and deposited in their collections, while the material

collected by Obr is deposited at the Department of Botany and Zoology, Masaryk University, Brno, Czech Republic.

The following abbreviations are used in this paper: NM – Nature Monument, NNR – National Nature Reserve, NR – Nature Reserve, PLA – Protected Landscape Area (all of these are the various categories and terms specified by the Czech system of legally protected natural areas); LT – left tributary of, RT – right tributary of; MT – Malaise trap, YPT – yellow pan traps, L – collected at light, CJM – P. Chvojka, J. Ježek & J. Macek lgt., CM – P. Chvojka & J. Macek lgt., BO – J. Bojková & M. Omelková lgt.; CR – critically endangered species, EN – endangered species, VU – vulnerable species (the latter three are all categories defined by the Red List of threatened invertebrates of the Czech Republic, *cf.* CHVOJKA *et al.* 2005).

List of collecting sites

The Bílé Karpaty Mts. are drained by the Morava and Váh rivers (north-western and south-eastern slopes respectively), both left tributaries of the River Danube. The collecting sites were distributed in the basins of the Olšava, Okluky, Svodnice, Velička, Radějovka, Sudoměřický potok, and Myjava streams (all left tributaries of the Morava river) and the Tovarský potok, Vlára, Drietomice, Bošáčka, and Klanečnice streams (all right tributaries of the Váh river). The data in this paper come from a total of 326 localities spread over the whole territory of the Bílé Karpaty PLA (Fig. 1) and include all its main watercourses and aquatic habitats. The following list of collecting sites is arranged according to the main drainage basins; localities within individual partial basins are ordered from the source downstream according to altitude; tributaries are listed successively in the order in which they join the main stream. Each entry is arranged as follows: number of locality, name and position of collecting site, habitat (if this is not evident from the name of the site itself), name of small-scale protected area (if appropriate), altitude, name of cadastral unit and code of field (in parentheses) in the faunistic and floristic grid mapping system of central Europe (EHRENDORFER & HAMANN 1965, PRUNER & MÍKA 1996, each basic field divided into 16 subfields, *cf.* KONVIČKA *et al.* 2012).

Morava river basin – left tributaries

Olšava stream

1. Left tributary of Olšava stream, meadow spring area 500 m NE Hradisko hill, 605 m a.s.l.; Pitín (6973c4)
2. Left tributary of Olšava stream, forest spring areas and brooklets NE Hradisko hill, 540–570 m a.s.l.; Pitín (6973c4)
3. Olšava stream above confluence with Vlčí potok brook, 450–540 m a.s.l.; Pitín (6973c4)
4. Vlčí potok brook 700 m above confluence with Olšava stream, 440–450 m a.s.l.; Pitín (6973c4)
5. Suchý potok brook, spring area N Lukov hill, 600–650 m a.s.l.; Krhov u Bojkovic (6973c3)
6. Right tributary of Suchý potok brook, spring area NW Měřiny hill, 450–520 m a.s.l.; Pitín (6973c3/c4)
7. Suchý potok brook, 400–430 m a.s.l.; Pitín (6973c3–4)
8. Olšava stream above Pitín, 350–380 m a.s.l.; Pitín (6973c1)

9. Kolelač stream SE Hostětín, 400 m a.s.l.; Hostětín (6973c2)
 10. Kolelač stream above Bojkovice reservoir, 335 m a.s.l.; Pitín (6973a3)
 11. Hluboká brook above confluence with Kolelač stream, 340 m a.s.l.; Rudimov (6973a3)
 12. Bojkovice reservoir near inflow of Kolelač stream, 320 m a.s.l.; Rudimov (6973a3)
 13. Kolelač stream below Bojkovice reservoir, 295 m a.s.l.; Bojkovice (6973c1)
 14. Lom Rasová NM SE Komňa, pool, 547 m a.s.l.; Komňa (7072b2)
 15. Left tributary of Koměnka stream, spring brook W Nový Dvůr, 500 m a.s.l.; Komňa (7072b4)
 16. Koměnka stream above Komňa, 375 m a.s.l.; Komňa (7072b2)
 17. pond S Komňa, 370 m a.s.l.; Komňa (7072b2)
 18. pond S Bojkovice, 290 m a.s.l.; Bojkovice (6972d4)
 19. Koměnka stream above Bojkovice, 275 m a.s.l.; Bojkovice (6972d2)
 20. Olšava stream below Bojkovice, 263 m a.s.l.; Bojkovice (6972d2)
 21. Kladenka stream, spring area SE Petrůvka, 460 m a.s.l.; Petrůvka u Slavičina (6872d4)
 22. Kladenka stream S Petrůvka, 390 m a.s.l.; Petrůvka u Slavičina (6972b2)
 23. Třešňůvka brook below Rudimov, 310 m a.s.l.; Bojkovice (6972b4)
 24. Kladenka stream NW Bojkovice, 265 m a.s.l.; Bojkovice (6972b3)
 25. Rudický potok brook above confluence with Kladenka stream, 250 m a.s.l.; Záhorovice (6972d1)
 26. Kladenka stream NW Záhorovice, 245 m a.s.l.; Záhorovice (6972d1)
 27. Luhačovický potok stream below Slopné, 325 m a.s.l.; Slopné (6873a3)
 28. Left tributary of Luhačovický potok stream, brook and spring area NE Uhliska hill S Slopné, 430 m a.s.l.; Slopné (6873c1)
 29. Left tributary of Luhačovický potok stream S Slopné, 330 m a.s.l.; Slopné (6873c1)
 30. Left tributary of Petrůvka brook, spring areas below U Petrůvky NM, 400 m a.s.l.; Petrůvka u Slavičina (6872d4)
 31. Left tributary of Petrůvka brook, brooklet NW U Petrůvky NM, 410 m a.s.l.; Petrůvka u Slavičina (6872d4)
 32. Petrůvka brook above confluence with Luhačovický potok stream, 300 m a.s.l.; Dolní Lhota u Luhačovic (6872d4)
 33. Luhačovický potok stream below Dolní Lhota, 285 m a.s.l.; Dolní Lhota u Luhačovic (6872d2)
 34. Gáborka brook, spring areas S Obětová hill, 390–420 m a.s.l.; Kladná-Žilín (6872d3)
 35. Gáborka brook above confluence with Luhačovický potok stream, 280 m a.s.l.; Luhačovice (6872d3)
 36. Left tributary of Luhačovický potok stream above Aloiska source, 330 m a.s.l.; Luhačovice (6972b1)
 37. Nivnička stream, spring area, 580 m a.s.l.; Bystřice pod Lopeníkem (7072b3)
 38. Nivnička stream SE Bystřice pod Lopeníkem, 480 m a.s.l.; Bystřice pod Lopeníkem (7072b3)
 39. Pivný potok brook, spring brooks SW Nový Dvůr, 550–560 m a.s.l.; Bystřice pod Lopeníkem (7072b4)
 40. Pivný potok brook SW Nový Dvůr, 470 m a.s.l.; Bystřice pod Lopeníkem (7072b4)
 41. Pivný potok brook above Bystřice pod Lopeníkem, 390 m a.s.l.; Bystřice pod Lopeníkem (7072b3)
 42. Lubná brook above Lubná reservoir, 325 m a.s.l.; Korytná (7072c1)
 43. Lubná reservoir NE Korytná, 315 m a.s.l.; Suchá Loz (7072c1)
 44. Lubná brook below Lubná reservoir, 270–300 m a.s.l.; Suchá Loz (7072a3)
 45. Korytnice brook above Korytná, 345 m a.s.l.; Korytná (7071d2)
 46. Korytnice brook below Korytná, 290 m a.s.l.; Nivnice (7071b4)
- Okluky stream
47. Okluky stream NW Lesná hill, 520 m a.s.l.; Horní Němčí (7071d4)
 48. Right tributary of Okluky stream, brooklets in Uvezené NM, 530–540 m a.s.l.; Horní Němčí (7071d4)
 49. Right tributary of Okluky stream NW Lesná hill, 540 m a.s.l.; Horní Němčí (7071d4)

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50. Right tributary of Okluky stream, spring area NW Lesná hill, 525 m a.s.l.; Horní Němčí (7071d4)
51. Okluky stream above Horní Němčí, 350–370 m a.s.l.; Horní Němčí (7071d4) (S. Obr collected at 330 m a.s.l. in 1958)
52. Left tributary of Okluky stream SW Horní Němčí, 375 m a.s.l.; Horní Němčí (7071d3)
53. Boršický potok brook, spring brook, 475 m a.s.l.; Slavkov u Uherského Brodu (7071d3)
54. Boršický potok brook, 370–420 m a.s.l.; Slavkov u Uherského Brodu (7071d3)
55. Boršický potok brook above Boršice u Blatnice, 320 m a.s.l.; Boršice u Blatnice (7071c2)
56. Slavkovský potok brook E Boršice u Blatnice, 335 m a.s.l.; Slavkov u Uherského Brodu (7071d1)

Svodnice stream

57. Bozatínský potok brook NW Háj hill NE Velká nad Veličkou, 350 m a.s.l.; Velká nad Veličkou (7171a1)

Velička stream

58. Velička stream, spring area and upper section, Javorina NNR, 850–900 m a.s.l.; Strání (7172a3)
59. Velička stream, 700–750 m a.s.l.; Strání (7172a3)
60. Right tributary of Velička stream, spring area, 600 m a.s.l.; Strání (7171b4)
61. Left tributary of Velička stream, spring areas, brooklets NE Durda hill, 720–760 m a.s.l.; Strání (7171b4)
62. Left tributary of Velička stream near Hubertova bouda hut, 700 m a.s.l.; Strání (7171b4)
63. Left tributary of Velička stream near Hubertova bouda hut, 550–560 m a.s.l.; Strání (7171b4)
64. Left tributary of Velička stream near Hubertova bouda hut, spring area, 570–620 m a.s.l.; Strání (7171b4)
65. Velička stream below Hubertova bouda hut, 530–540 m a.s.l.; Strání (7171b4)
66. Left tributary of Velička stream, spring area Vadovská N Durda hill, 670 m a.s.l.; Strání (7171b4)
67. Right tributary of Velička stream, spring area, 500 m a.s.l.; Strání (7171b4)
68. Velička stream above confluence with Kamenný potok brook, 470–480 m a.s.l.; Strání (7171b4)
69. Left tributary of Kamenný potok brook near Dřevěná bouda hut, 620–650 m a.s.l.; Strání (7171b2)
70. Left tributary of Kamenný potok brook below Dřevěná bouda hut, 510–550 m a.s.l.; Strání (7171b2)
71. Right tributary of Kamenný potok brook, spring area below Porážky, 560 m a.s.l.; Strání (7171b2)
72. Kamenný potok brook 1.5 km NE Vápenky, 510 m a.s.l.; Strání (7171b2)
73. Kamenný potok brook above confluence with Velička stream, 465 m a.s.l.; Nová Lhota u Veselí nad Moravou (7171b2)
74. Left tributary of Velička stream, spring of right branch NE Čupec hill, 675 m a.s.l.; Nová Lhota u Veselí nad Moravou (7171b3)
75. Left tributary of Velička stream, right branch NE Čupec hill, 600 m a.s.l.; Nová Lhota u Veselí nad Moravou (7171b3)
76. Left tributary of Velička stream, right branch NE Čupec hill, 550 m a.s.l.; Nová Lhota u Veselí nad Moravou (7171b3)
77. Left tributary of Velička stream, spring of left branch NW Čupec hill, 800 m a.s.l.; Nová Lhota u Veselí nad Moravou (7171d1)
78. Left tributary of Velička stream, left branch NW Čupec hill, 600 m a.s.l.; Nová Lhota u Veselí nad Moravou (7171b3)
79. Left tributary of Velička stream, spring area along left branch NW Čupec hill, 600 m a.s.l.; Nová Lhota u Veselí nad Moravou (7171b3)
80. Left tributary of Velička stream, brooklet and spring area, Grůň SW Vápenky, 520–540 m a.s.l.; Nová Lhota u Veselí nad Moravou (7171b3)
81. Left tributary of Velička stream below Vápenky, 450 m a.s.l.; Nová Lhota u Veselí nad Moravou (7171b3)

82. Left tributary of Velička stream below Vápenky, 435 m a.s.l.; Nová Lhota u Veselí nad Moravou (7171b3)
83. Velička stream below Vápenky, 400–420 m a.s.l.; Nová Lhota u Veselí nad Moravou (7171b1/b3)
84. Right tributary of Velička stream NE Hryzlácké Mlýny, 450 m a.s.l.; Nová Lhota u Veselí nad Moravou (7171b1)
85. Right tributary of Kazivec brook, right branch NW Dolnoněmčanské louky NR, 515 m a.s.l.; Slavkov u Uherského Brodu (7071d4)
86. Right tributary of Kazivec brook, meadow spring area 1.8 km W Lesná hill, 505 m a.s.l.; Slavkov u Uherského Brodu (7071d3)
87. Kazivec brook S Horní Němčí, 460–485 m a.s.l.; Slavkov u Uherského Brodu (7071d3)
88. Left tributary of Kazivec brook ESE Suchov, 420–440 m a.s.l.; Suchov (7171b1)
89. Left tributary of Kazivec brook SE Suchov, 400 m a.s.l.; Suchov (7171a2)
90. Kazivec brook SE Suchov, 390–410 m a.s.l.; Suchov (7171a2)
91. Left tributary of Velička stream, right branch SW Nová Lhota, 480 m a.s.l.; Nová Lhota u Veselí nad Moravou (7171a4)
92. Left tributary of Velička stream, left branch NE Hradisko hill, 500 m a.s.l.; Nová Lhota u Veselí nad Moravou (7171a4)
93. Left tributary of Velička stream, brooklets NE Hradisko hill, 400 m a.s.l.; Javorník nad Veličkou (7171a4)
94. Left tributary of Velička stream, Jazevčí NNR, 355–360 m a.s.l.; Javorník nad Veličkou (7171a4)
95. Velička stream above Javorník, Jazevčí NNR, 325–350 m a.s.l.; Javorník nad Veličkou – Nová Lhota u Veselí nad Moravou (7171a4)
96. Right tributary of Hrubý potok stream, meadow spring SE Nová Lhota, 620 m a.s.l.; Nová Lhota u Veselí nad Moravou (7171b3)
97. Hrubý potok stream, Megovka hut, 455 m a.s.l.; Nová Lhota u Veselí nad Moravou (7171c2)
98. Left tributary of Hrubý potok stream N Kamenná vrata hill, 550 m a.s.l.; Javorník nad Veličkou (7171c2)
99. Hrubý potok stream below Liščí bouda hut, 400–415 m a.s.l.; Javorník nad Veličkou (7171c2)
100. Right tributary of Hrubý potok stream SE Hradisko hill, 400–500 m a.s.l.; Javorník nad Veličkou (7171c2)
101. Hrubý potok stream above Javorník, 340–370 m a.s.l.; Javorník nad Veličkou (7171a3/a4/ c2)
102. Zahrady pod Hájem NNR, 380 m a.s.l.; Velká nad Veličkou (7171a1)
103. Velička stream, 205 m a.s.l.; Tasov nad Veličkou (7070d3)
104. Malanský potok brook W Kuželov, 300 m a.s.l.; Hrubá Vrbka (7170b4)
105. pond S Lipov, 230 m a.s.l.; Lipov (7170b2)
106. Kuželovský potok brook SE Tasov, 204–212 m a.s.l.; Tasov nad Veličkou (7170b1)
107. Left tributary of Velička stream S Kněždub, 250 m a.s.l.; Kněždub (7170a2)

Radějovka stream

108. Radějovka stream, Čertoryje NNR, 355–360 m a.s.l.; Kněždub (7170b3)
109. Kejda pond S Kněždub, 320 m a.s.l.; Kněždub (7170a4)
110. Radějovka stream below Kejda pond, 315 m a.s.l.; Kněždub (7170a4)
111. Járkovec brook, 420 m a.s.l.; Tvarožná Lhota (7170d1)
112. Left tributary of Járkovec brook, spring area N Bukovina hill, 450–470 m a.s.l.; Tvarožná Lhota (7170c2)
113. Járkovec brook, Čertoryje NNR, 320–365 m a.s.l.; Kněždub – Tvarožná Lhota (7170a4/c2/ d1)
114. pond above Lučina reservoir, 300 m a.s.l.; Tvarožná Lhota (7170a4)
115. Left tributary of Radějovka stream, spring area and brook N Veselka hill, 380 m a.s.l.; Radějov u Strážnice (7170c2)
116. Left tributary of Radějovka stream N Veselka hill, 290 m a.s.l.; Tvarožná Lhota (7170a4)
117. Radějovka stream above Radějov, 270 m a.s.l.; Tvarožná Lhota (7170a3)
118. Radějovka stream below Radějov, 195 m a.s.l.; Strážnice na Moravě (7169b2)
119. Radějovka stream above Petrov, 175 m a.s.l.; Petrov u Hodonína (7169b1)

Caddis flies (Trichoptera)

Sudoměřický potok stream

120. Sudoměřický potok stream above Mlýnky, 300 m a.s.l.; Radějov u Strážnice (7169d2)
121. Mandát stream above pond, Kútky, 360 m a.s.l.; Radějov u Strážnice (7170c2)
122. pond, Kútky, 355 m a.s.l.; Radějov u Strážnice (7170c2)
123. Mandát stream, Kútky NR, 350 m a.s.l.; Radějov u Strážnice (7170c2)
124. Right tributary of Mandát stream, meadow spring area, Kútky NR, 400–415 m a.s.l.; Radějov u Strážnice (7170c2)
125. Mandát stream above confluence with Sudoměřický potok stream, 265 m a.s.l.; Radějov u Strážnice (7169d2)
126. Mlýnky reservoir, 245 m a.s.l.; Sudoměřice (7169d2)
127. Sudoměřický potok stream SW Staré hory hill, 220 m a.s.l.; Sudoměřice (7169b3)
128. Sudoměřický potok stream W Staré hory hill, 210 m a.s.l.; Sudoměřice (7169b3)
129. Sudoměřický potok stream above Sudoměřice, 190 m a.s.l.; Sudoměřice (7169b3)

Myjava stream

130. Myjava stream, 580–650 m a.s.l.; Nová Lhota u Veselí nad Moravou (7171d1)
131. Left tributary of Myjava stream, 630 m a.s.l.; Nová Lhota u Veselí nad Moravou (7171d1)
132. Right tributary of Rybnický potok brook, brooklet 1.6 km W Nová hora hill, 510 m a.s.l.; Javorník nad Veličkou (7171c4)
133. Right tributary of Rybnický potok brook, brooklet W Kamenná vrata hill, 480 m a.s.l.; Javorník nad Veličkou (7171c2)
134. Left tributary of Rybnický potok brook, spring area, Machová NR, 440 m a.s.l.; Javorník nad Veličkou (7171c1)
135. Rybnický potok brook, Machová NR, 410–445 m a.s.l.; Javorník nad Veličkou (7171c1/c2)
136. Rybnický potok brook, Machová NR, 380–400 m a.s.l.; Javorník nad Veličkou (7171c1)
137. Teplica stream, 345 m a.s.l.; Javorník nad Veličkou (7171c3)
138. Right tributary of Liešťanský potok brook SW Machová hill, 400 m a.s.l.; Javorník nad Veličkou (7171c3)

Váh river basin – right tributaries

Tovarský potok stream

139. Radošinský potok brook NE Nedašova Lhota, 540–570 m a.s.l.; Nedašova Lhota (6874d1)
140. Right tributary of Zápečová stream, spring area NE Nedašova Lhota, 550 m a.s.l.; Nedašova Lhota (6874d1)
141. Zápečová stream NE Nedašova Lhota, 520–530 m a.s.l.; Nedašova Lhota (6874d1)

Vlára river

142. Right tributary of Sviborka stream NW Haluzice, 390–425 m a.s.l.; Haluzice (6873c2)
143. Sviborka stream N Haluzice, 380 m a.s.l.; Vlachovice (6873a4)
144. Right tributary of Sviborka stream NE Haluzice, 400–440 m a.s.l.; Vlachovice (6873c2)
145. Sviborka stream above confluence with Vlára river, 350–355 m a.s.l.; Vlachovice (6873d1)
146. Vlára river below confluence with Sviborka stream, 345 m a.s.l.; Vlachovice (6873d1)
147. Křekovský potok brook, springs W Jelenovská hill, 580 m a.s.l.; Lipina (6873d4)
148. Křekovský potok brook above Křekov, 440–500 m a.s.l.; Lipina (6873d4)
149. Left tributary of Křekovský potok, spring area NW Hložecká kaple chapel, 570 m a.s.l.; Křekov (6873d4)
150. Left tributary of Vlára river E Vrbětice below Vaňatka, 450 m a.s.l.; Vrbětice (6873d4)
151. Říka stream, wetland NW Nevšová, 430 m a.s.l.; Nevšová (6873c3)
152. Říka stream above Slavičín, 375 m a.s.l.; Slavičín (6973a1)
153. Lukšinka stream SW Lipová, 400–430 m a.s.l.; Lipová u Slavičina (6973c3)
154. Right tributary of Lukšinka stream SW Lipová, 420–435 m a.s.l.; Lipová u Slavičina (6973c3)
155. Lukšinka stream above Slavičín, 375 m a.s.l.; Slavičín (6973a1)

156. Left tributary of Lipovský potok stream, spring area N Lipová, 500 m a.s.l.; Lipová u Slavičina (6873c2)
157. Left tributary of Lipovský potok stream E Lipová, 415 m a.s.l.; Lipová u Slavičina (6873c4)
158. Lipovský potok stream above Slavičín, 370 m a.s.l.; Slavičín (6973a2)
159. wetland at Lipovský potok stream N Slavičín, 365 m a.s.l.; Slavičín (6973a2)
160. pond N Slavičín, 365 m a.s.l.; Slavičín (6973a2)
161. Václavský potok brook, spring W Haluzice, 480 m a.s.l.; Haluzice (6873c2)
162. Left tributary of Václavský potok brook, spring area S Haluzice, 490 m a.s.l.; Haluzice (6873c2)
163. Říka stream above confluence with Vlára river, 338 m a.s.l.; Divnice (6973b1)
164. Rokytenka stream above Šanov, 450–460 m a.s.l.; Šanov (6973c2)
165. Rokytenka stream below Šanov, 390 m a.s.l.; Šanov (6973a4)
166. Rokytenka stream above Rokytnice, 370 m a.s.l.; Rokytnice u Slavičina (6973a4)
167. Right tributary of Rokytenka stream SSE Rokytnice, left branch, 500 m a.s.l.; Rokytnice u Slavičina (6973d1)
168. Right tributary of Rokytenka stream SSE Rokytnice, right branch, 500 m a.s.l.; Rokytnice u Slavičina (6973d1)
169. Right tributary of Rokytenka stream SSE Rokytnice, right branch, 400 m a.s.l.; Rokytnice u Slavičina (6973b3)
170. Right tributary of Rokytenka stream SE Rokytnice, 365 m a.s.l.; Rokytnice u Slavičina (6973b3)
171. Hajnice pond SE Rokytnice, 365 m a.s.l.; Rokytnice u Slavičina (6973b3)
172. Rokytenka stream above confluence with Vlára river, 330 m a.s.l.; Jestřabí nad Vlárí (6973b3)
173. Havránkův potok brook above Popov, 350–360 m a.s.l.; Popov nad Vlárí (6973b2)
174. Vlára river, 315 m a.s.l.; Popov nad Vlárí (6973b2)
175. Right tributary of Zelenský potok stream, spring areas WNW Javorník Mt., 530–600 m a.s.l.; Štítná nad Vlárí (6973d2)
176. Zelenský potok stream above confluence with Kochavecký potok brook, 410 m a.s.l.; Štítná nad Vlárí (6973d2)
177. Left tributary of Kochavecký potok brook SW Kochavec, 580 m a.s.l.; Šanov (6973d1)
178. Kochavecký potok brook above confluence with Zelenský potok stream, 410 m a.s.l.; Štítná nad Vlárí (6973d2)
179. Vápenický potok brook NW Javorník Mt., 600–650 m a.s.l.; Štítná nad Vlárí (6973d2)
180. Vápenický potok brook above confluence with Zelenský potok stream, 360 m a.s.l.; Štítná nad Vlárí (6973b4)
181. Zelenský potok stream above Štítná nad Vlárí, 325–330 m a.s.l.; Štítná nad Vlárí (6973b4)
182. Rakové brook, springfed brook NE Ploštiny hill, 680 m a.s.l.; Poteč (6874c2)
183. Rakové brook N Ploštiny hill, 510 m a.s.l.; Poteč (6874a4)
184. Left tributary of Rakové brook, spring areas and brooklets N Ploštiny hill, 600–670 m a.s.l.; Poteč (6874c2)
185. Left tributary of Rakové brook E Poteč, 500–510 m a.s.l.; Poteč (6874a4)
186. Rakové brook NE Poteč, 440–450 m a.s.l.; Poteč (6874a4)
187. Left tributary of Brumovka stream S Poteč, 500 m a.s.l.; Poteč (6874c1/c2)
188. Left tributary of Brumovka stream S Poteč, 420 m a.s.l.; Poteč (6874c1)
189. Left tributary of Brumovka stream, spring areas and brooklets, Javorůvky NR, 530–570 m a.s.l.; Valašské Klobouky (6874c1)
190. Left tributary of Brumovka stream below Javorůvky NR, 450 m a.s.l.; Valašské Klobouky (6874c1)
191. Left tributary of Brumovka stream above ponds SE Valašské Klobouky, 450 m a.s.l.; Valašské Klobouky (6874c1)
192. ponds SE Valašské Klobouky, 430 m a.s.l.; Valašské Klobouky (6874c1)
193. Right tributary of Brumovka stream, spring area 1.3 km NE Jelenovská hill, 450 m a.s.l.; Valašské Klobouky (6874c1)
194. Dešňanský potok brook, spring area, brooklet, Dobšená NM, 530–570 m a.s.l.; Valašské Klobouky (6874c1)
195. Dešňanský potok brook above confluence with Brumovka stream, 380 m a.s.l.; Valašské Klobouky (6874c3)

Caddis flies (Trichoptera)

196. Brumovka stream below Valašské Klobouky, 340–355 m a.s.l.; Valašské Klobouky (6874c3)
197. Left tributary of Brumovka stream, spring areas, Bílé potoky NR, 430–460 m a.s.l.; Valašské Klobouky (6874c3)
198. Left tributary of Brumovka stream, Bílé potoky NR, 400–430 m a.s.l.; Valašské Klobouky (6874c3)
199. Right tributary of Nedašovka stream, spring area E Ploštiny hill, 590–605 m a.s.l.; Nedašova Lhota (6874c2)
200. Right tributary of Nedašovka stream, spring area SE Ploštiny hill, 550 m a.s.l.; Nedašova Lhota (6874c2)
201. Right tributary of Nedašovka stream SE Ploštiny hill, 540 m a.s.l.; Nedašova Lhota (6874c2)
202. Nedašovka stream above Nedašova Lhota, 450–470 m a.s.l.; Nedašova Lhota (6874c2)
203. Left tributary of Nedašovka stream, spring section below Měříčka, 580–610 m a.s.l.; Nedašova Lhota (6874d1)
204. Hrušovka brook, meadow wetland SW Kaňoury NM, 520 m a.s.l.; Nedašov (6874d3)
205. Left tributary of Nedašovka stream above Nedašov – Na Salaši, spring section, 600–610 m a.s.l.; Nedašov (6974b1)
206. Left tributary of Nedašovka stream above Nedašov – Na Salaši, 490–570 m a.s.l.; Nedašov (6974b1)
207. Left tributary of Nedašovka stream, spring area SW Kaňúr hill, 630 m a.s.l.; Nedašov (6874d3)
208. Left tributary of Nedašovka stream, brook and springs NW Cigán hill, 520 m a.s.l.; Nedašov (6974a2)
209. Hluboký potok brook above Návojná, 480–500 m a.s.l.; Návojná (6874c2)
210. Hluboký potok brook above Návojná, 400–420 m a.s.l.; Návojná (6874c4)
211. Návojník brook, spring area NW Holý vrch hill, 650–700 m a.s.l.; Návojná (6974a2)
212. Návojník brook and spring area SE Návojná, 520 m a.s.l.; Návojná (6974a2)
213. Návojník brook above Návojná, 410 m a.s.l.; Návojná (6874c4)
214. Right tributary of Brumovka stream, spring area 0.4 km SW Jelenovská hill, 550 m a.s.l.; Brumov (6873d4)
215. Left tributary of Bylnička brook, spring area below Dily, 600 m a.s.l.; Bylnice (6974a4)
216. Left tributary of Bylnička brook, Baligova studánka spring N Tratihušť hill, 550 m a.s.l.; Bylnice (6974a4)
217. Left tributary of Bylnička brook N Tratihušť hill, 500 m a.s.l.; Bylnice (6974a4)
218. Left tributary of Bylnička brook N Maděrovce, 450–550 m a.s.l.; Bylnice (6974a4)
219. Bylnička brook above Bylničky, 420 m a.s.l.; Bylnice (6974a4)
220. Right tributary of Bylnička brook above Bylničky, 450 m a.s.l.; Bylnice (6974a2)
221. Bylnička brook above Bylnice, 360–380 m a.s.l.; Bylnice (6974a3)
222. Right tributary of Vlára river, source area, Lazy NR S Bylnice, 420 m a.s.l.; Bylnice (6974a3)
223. Hlubočský potok brook, 500–580 m a.s.l.; Bylnice (6974a4)
224. Hlubočský potok brook, Hluboče NM, 440–460 m a.s.l.; Bylnice (6974a4)
225. Hlubočský potok brook, 330 m a.s.l.; Bylnice (6974a3)
226. Bukový potok brook, spring area below Chladný vrch NM, 600 m a.s.l.; Svatý Štěpán (6974c1)
227. Left tributary of Bukový potok brook, spring areas NE Javorník Mt., 560 m a.s.l.; Svatý Štěpán (6974c1)
228. Bukový potok brook, 450 m a.s.l.; Svatý Štěpán (6974c1)
229. Right tributary of Bukový potok brook, spring area, 430 m a.s.l.; Svatý Štěpán (6974c1)
230. Uhlisko brook, right branch, 570 m a.s.l.; Svatý Štěpán (6974c3)
231. Uhlisko brook, 420 m a.s.l.; Svatý Štěpán (6974c1)
232. Bukový potok brook above Svatý Štěpán, 350–370 m a.s.l.; Svatý Štěpán (6974c1)
233. Left tributary of Bukový potok brook, spring area SE Pláňava hamlet, 450–480 m a.s.l.; Svatý Štěpán (6974c1)
234. Left tributary of Bukový potok brook SE Pláňava hamlet, 370 m a.s.l.; Svatý Štěpán (6974c1)
235. Bukový potok brook above Svatý Štěpán, 330 m a.s.l.; Svatý Štěpán (6974c1)
236. Vlára river, Vlárský průsmyk pass, 285 m a.s.l.; Svatý Štěpán (6974c1/c2)
237. Right tributary of Vlára river N Čakanov hill, 350 m a.s.l.; Svatý Štěpán (6974c2)

238. Vlárka stream E Průklesy hill, 580–600 m a.s.l.; Nedašov (6974b1)
239. Vlárka stream E Průklesy hill, 530–550 m a.s.l.; Brumov (6974b1)
240. Vlárka stream above Sidonie, 380 m a.s.l.; Sidonie (6974b3)
241. Right tributary of Vlárka stream, spring area 1.2 km E Tratihušť hill, 530–550 m a.s.l.; Sidonie (6974a4)
242. Right tributary of Vlárka stream, spring areas and brooks above Sidonie NR, 540–560 m a.s.l.; Sidonie (6974a4)
243. Right tributary of Vlárka stream, Sidonie NR, 430–470 m a.s.l.; Sidonie (6974a4)
244. Right tributary of Vlárka stream, spring areas NE Okrouhlá hill, 460–550 m a.s.l.; Sidonie (6974a4)
245. Right tributary of Vlárka stream E Okrouhlá hill, 370 m a.s.l.; Sidonie (6974c2)
246. Vlárka stream, Sidonie, 290–320 m a.s.l.; Sidonie (6974c2)

Drietomice stream

247. Drietomice stream, spring area, 590–620 m a.s.l.; Vyškovec (7073c1)
248. Left tributary of Drietomice stream, meadow spring, Vyškovec-Kykula, 685 m a.s.l.; Vyškovec (7073c1)
249. Left tributary of Drietomice stream, Ve Vlčí NR, 620–650 m a.s.l.; Vyškovec (7073c1)
250. Drietomice stream, 400 m a.s.l.; Vyškovec (7073c1)
251. Left tributary of Drietomice stream, spring areas and brooks E Vyškovec hill, 550–600 m a.s.l.; Vyškovec (7073c1)
252. Left tributary of Drietomice stream E Vyškovec hill, 500–550 m a.s.l.; Vyškovec (7073c1)
253. Left tributary of Drietomice stream E Vyškovec hill, 440 m a.s.l.; Vyškovec (7073c1)
254. Left tributary of Drietomice stream, spring area NE Kykula hill, 540 m a.s.l.; Vyškovec (7073c1)
255. Left tributary of Drietomice stream NE Kykula hill, Chmelinec NM, 435–440 m a.s.l.; Vyškovec (7073c1)
256. Left tributary of Drietomice stream, wetland and brooklet, Chmelinec NM, 438 m a.s.l.; Vyškovec (7073c1)
257. Left tributary of Drietomice stream, spring area SE Chmelinec NM, 450 m a.s.l.; Starý Hrozenkov (7073c1)
258. Drietomice stream above confluence with Krátkovský potok stream, 360–390 m a.s.l.; Starý Hrozenkov (7073a3)
259. Right tributary of Krátkovský potok stream, spring brook N Mikulčín vrch hill, 585 m a.s.l.; Vápenice u Starého Hrozenkova (7072b4)
260. Right tributary of Krátkovský potok stream above Mravenčí louka NM, 510 m a.s.l.; Vápenice u Starého Hrozenkova (7072b4)
261. Krátkovský potok stream above Vápenice, Mravenčí louka NM, 450–485 m a.s.l.; Vápenice u Starého Hrozenkova (7072b4)
262. Left tributary of Krátkovský potok stream, spring area SE Nový Dvůr, 485 m a.s.l.; Komňa (7072b4)
263. Right tributary of Trstná brook, spring brook E Nový Dvůr, 480–490 m a.s.l.; Komňa (7072b4)
264. Trstná brook above Vápenice, 450–480 m a.s.l.; Komňa (7072b4)
265. Left tributary of Trstná brook NW Vápenice, 470 m a.s.l.; Vápenice u Starého Hrozenkova (7072b4)
266. Right tributary of Trstná brook, spring area NW Vápenice, 450–460 m a.s.l.; Komňa (7072b4)
267. Krátkovský potok stream above confluence with Hrnčarův potok brook, 420 m a.s.l.; Vápenice u Starého Hrozenkova (7073a3)
268. Hrnčarův potok brook above Vápenice, 470–485 m a.s.l.; Vápenice u Starého Hrozenkova (7072b4)
269. Left tributary of Hrnčarův potok brook, spring area and brooklet, V Krátkých NM, 490 m a.s.l.; Vápenice u Starého Hrozenkova (7072b4)
270. Hrnčarův potok brook, 420 m a.s.l.; Vápenice u Starého Hrozenkova (7073a3)
271. Left tributary of Vlčí potok brook, spring area SW Lokov hill, 580 m a.s.l.; Bzová u Uherského Brodu (7073a1)

Caddis flies (Trichoptera)

272. Vlčí potok brook NW Starý Hrozenkov, 440 m a.s.l.; Starý Hrozenkov (7073a1)
273. Skalka quarry N Starý Hrozenkov, pool, 500 m a.s.l.; Starý Hrozenkov (7073a3)
274. Krátkovský potok stream below Starý Hrozenkov, 360 m a.s.l.; Starý Hrozenkov (7073a4)
275. Left tributary of Žitkovský potok brook, spring areas, Hutě NR, 460–520 m a.s.l.; Žitková (7073a2)
276. Žitkovský potok brook, Hutě NR, 440–450 m a.s.l.; Žitková (7073a2)
277. Right tributary of Rudický potok brook, spring area SE Lokov hill, 640 m a.s.l.; Žitková (7073a2)
278. Right tributary of Rudický potok brook, meadow spring area, Pod Žitkovským vrchem NM, 540 m a.s.l.; Žitková (7073a2)
279. Rudický potok brook, Pod Žitkovským vrchem NR, 460–500 m a.s.l.; Žitková (7073a2)
280. reservoir E Žitková, 385 m a.s.l.; Žitková (7073a2)
281. Žitkovský potok below Žitková, 360–380 m a.s.l.; Žitková (7073a4)

Bošáčka stream

282. Predpolomský potok brook, Lopenické Bošáčky, 480 m a.s.l.; Lopeník (7072d2)
283. Left tributary of Predpolomský potok brook, spring area and brooklet S Vyškovec hill, 630–650 m a.s.l.; Vyškovec (7072d2)
284. Left tributary of Predpolomský potok brook, Vyškovecké Bošáčky, 480 m a.s.l.; Vyškovec (7072d2)
285. Right tributary of Predpolomský potok brook, spring area and brook E Malý Lopeník Mt., 750 m a.s.l.; Lopeník (7072d1)
286. Hrubár stream N Škrátová, 650–670 m a.s.l.; Lopeník (7072d2)
287. Left tributary of Hrubár stream, spring area N Škrátová, 650–660 m a.s.l.; Lopeník (7072d2)
288. Right tributary of Hrubár stream, Hrubý Mechnáč spring area, 640–650 m a.s.l.; Lopeník (7072d2)
289. Hrubár stream above Lopeník, 560–570 m a.s.l.; Lopeník (7072d1)
290. Left tributary of Hrubár stream, spring brook, U Zvonice NM, 655–660 m a.s.l.; Lopeník (7072d1)
291. Soliskový potok brook N Malý Lopeník Mt., 680–780 m a.s.l.; Lopeník (7072d1)
292. Soliskový potok brook, Grůň NM, 580–590 m a.s.l.; Lopeník (7072d1)
293. Left tributary of Soliskový potok brook, meadow spring area, Grůň NM, 590 m a.s.l.; Lopeník (7072d1)
294. Right tributary of Hrubár stream, spring area NNE Březová, Kalábová NM, 520 m a.s.l.; Bánov (7072c2)
295. Hrubár stream above Březová, 435 m a.s.l.; Březová u Uherského Brodu (7072c2)
296. Left tributary of Hrubár stream W Malý Lopeník Mt., spring brook, 705 m a.s.l.; Březová u Uherského Brodu (7072d1)
297. Left tributary of Hrubár stream NE Březová, 440 m a.s.l.; Březová u Uherského Brodu (7072c2)
298. Right tributary of Hrubár stream W Březová, 480–500 m a.s.l.; Březová u Uherského Brodu (7072c2)
299. Zlatný potok brook NW Velký Lopeník Mt., 550–590 m a.s.l.; Březová u Uherského Brodu (7072d3)
300. Right tributary of Zlatný potok brook, spring area NW Velký Lopeník Mt., 630 m a.s.l.; Březová u Uherského Brodu (7072d3)
301. Left tributary of Zlatný potok brook W Velký Lopeník Mt., 590–600 m a.s.l.; Březová u Uherského Brodu (7072d3)
302. Right tributary of Zlatný potok brook, wetland SE Březová, 550 m a.s.l.; Březová u Uherského Brodu (7072d3)
303. Left tributary of Zlatný potok brook, spring area W Velký Lopeník Mt., 470 m a.s.l.; Březová u Uherského Brodu (7072d3)
304. Zlatný potok brook W Velký Lopeník Mt., 430–450 m a.s.l.; Březová u Uherského Brodu (7072d3)

305. Hrubár stream below confluence with Zlatný potok brook, 365–370 m a.s.l.; Březová u Uherského Brodu (7072c4)
 306. Right tributary of Hrubár stream NE Nová hora hill, 380–450 m a.s.l.; Březová u Uherského Brodu (7072c4–7172a2)
- Klanečnice stream
307. Left tributary of Klanečnice stream, spring brook 1 km N Lesná hill, 580–600 m a.s.l.; Horní Němčí (7071d4)
 308. Klanečnice stream above Straňanská nádrž reservoir, 450 m a.s.l.; Strání (7072c3)
 309. Left tributary of Klanečnice stream, spring areas, Hrnčárky NM, 440–490 m a.s.l.; Strání (7072c3)
 310. Klanečnice stream above Strání, 420 m a.s.l.; Strání (7072c3)
 311. Right tributary of Klanečnice stream above Záhumenice NM, spring section, 650 m a.s.l.; Strání (7172a1)
 312. Right tributary of Klanečnice stream, Záhumenice NM, 460–500 m a.s.l.; Strání (7172a1)
 313. Svinárský potok stream, Javorina NNR, 670 m a.s.l.; Strání (7172a3)
 314. Svinárský potok stream, 560–590 m a.s.l.; Strání (7172a3)
 315. Left tributary of Svinárský potok stream 1.9 km N Velká Javořina Mt., 580 m a.s.l.; Strání (7172a3)
 316. Right tributary of Svinárský potok stream, Javorina NNR, 700 m a.s.l.; Strání (7172a3)
 317. Left tributary of Svinárský potok stream, spring area 2.5 km N Velká Javořina Mt., 630 m a.s.l.; Strání (7172a1)
 318. Svinárský potok stream, 460 m a.s.l.; Strání (7172a1)
 319. Right tributary of Svinárský potok stream N Jelenec Mt., 425 m a.s.l.; Strání (7172a1)
 320. Svinárský potok stream above Květná, 390–420 m a.s.l.; Strání (7172a1)
 321. Right tributary of Svinárský potok stream, spring area SW Květná, 400 m a.s.l.; Strání (7172a2)
 322. Left tributary of Svinárský potok stream, spring area, Mechnáčky NM, 460 m a.s.l.; Strání (7172a1)
 323. Left tributary of Svinárský potok stream, pool, Mechnáčky NM, 460 m a.s.l.; Strání (7172a1)
 324. Klanečnice stream below Květná, 345–350 m a.s.l.; Strání (7172a2)
 325. Left tributary of Klanečnice stream, brook and spring area SE Nová hora hill, 440–480 m a.s.l.; Strání (7172a2)
 326. Left tributary of Klanečnice stream E Květná, spring area, 430 m a.s.l.; Strání (7172a2)

Caddis flies (Trichoptera)



Fig. 1. A simplified map of the Bílé Karpaty Protected Landscape Area with the drainage pattern and location of sites studied.

Annotated list of species

More than 18,000 specimens were collected during the field survey in the area in 2004–2010 and altogether 121 species were identified. A total of 123 species (including two species known only on the basis of voucher specimens from the year 1958) from 17 families have been documented from the Bílé Karpaty PLA to date.

The nomenclature and arrangement of the list of species follow MALICKY (2005) and CHVOJKA & KOMZÁK (2008). The Red List status is given according to the Red List of threatened invertebrates of the Czech Republic (CHVOJKA *et al.* 2005). All the material examined for each species is listed; individual records are ordered according to the number of the collecting site. Each record is arranged as follows: shortened name and altitude of the collecting site and its number (in parentheses), date(s) of collection(s), number of specimens, collecting method (if other than sweeping), and collector(s) (if other than the authors of the paper themselves). Published data are assigned to collecting sites as listed in this paper (with the number of the collecting site in parentheses); corresponding additional information (e.g. dates of collections, number of specimens etc.) may be found in the original papers.

Family RHYACOPHILIDAE

Rhyacophila fasciata Hagen, 1859

Material examined. Vlčí potok, 440–450 m (4), 31.v.2009, 1 ♂ pupa 2 ♀♀ pupae. Olšava, 350–380 m (8), 19.vi.2007, 1 ♂; 31.v.2009, 2 ♂♂ 3 ♂♂ pupae 1 ♀ pupa; 28.vi.2009, 2 ♂♂ 1 ♂ pupa 1 ♀ 2 ♀♀ pupae; 27.ix.2009, 2 ♂♂ 2 ♀♀; 7.vii.2010, 1 ♂. Kolelač, 335 m (10), 23.v.2010, 4 ♂♂; 1.viii.2010, 3 ♂♂ 2 ♀♀. Kolelač, 295 m (13), 26.vi.2010, 1 ♂ 1 ♂ pupa 1 ♀ pupa. Koménka, 375 m (16), 22.v.2010, 9 ♂♂; 26.vi.2010, 2 ♂♂ 1 ♀. Koménka, 275 m (19), 4.v.2009, 2 ♂♂; 24.ix.2009, 4 ♂♂; 31.vii.2010, 1 ♂ 1 ♀. Kladenka, 390 m (22), 21.iv.–29.x.2008, 2 ♂♂ 2 ♀♀, MT, CJM. Třešňávka, 310 m (23), 26.vi.2010, 1 ♂. Kladenka, 265 m (24), 15.vii.2009, 1 ♂. Luhačovický potok, 325 m (27), 1.viii.2010, 2 ♂♂ 2 ♀♀ pupae. Luhačovický potok, 285 m (33), 27.vi.2010, 1 ♂. Gáborka, 280 m (35), 23.v.2010, 2 ♂♂; 27.vi.2010, 1 ♂; 1.viii.2010, 2 ♂♂. Pivný potok, 390 m (41), 26.vi.2010, 1 ♂; 9.x.2010, 1 ♂. Lubná, 270–300 m (44), 23.vi.2007, 1 ♂. Korytnice, 345 m (45), 31.vii.2010, 1 ♂ 1 ♂ pupa; 9.x.2010, 1 ♂. Okluky, 350–370 m (51), 28.vi.2006, 1 ♂, J. Ježek lgt.; 29.vii.2009, 1 ♂. Boršický potok, 320 m (55), 30.v.2009, 1 ♂ 1 ♂ pupa 3 ♀♀; 27.vi.2009, 1 ♂ 2 ♂♂ pupae; 28.ix.2009, 2 ♂♂. Velička, 700–750 m (59), 7.vi.2005, 3 ♂♂ 2 ♀♀; 28.vi.2005, 7 ♂♂ 1 ♀; 4.vii.2005, 2 ♀♀. LT Velička, spring area, 570–620 m (64), 4.vi.2009, 1 ♂. Velička, 530–540 m (65), 7.vi.2005, 3 ♂♂ 2 ♀♀; 28.vi.2005, 7 ♂♂ 1 ♀; 4.vii.2005, 4 ♂♂ 1 ♀. Velička, 470–480 m (68), 7.vi.2005, 3 ♂♂ 2 ♀♀; 28.vi.2005, 7 ♂♂ 1 ♀; 4.vii.2005, 3 ♂♂ 1 ♀; 27.x.2005, 1 ♂. LT Kamenný potok, 510–550 m (70), 29.vi.2005, 1 ♂ 2 ♀♀. Kamenný potok, 510 m (72), 7.vii.2005, 1 ♂. LT Velička, 450 m (81), 3.vi.2009, 1 ♂. LT Velička, 435 m (82), 12.v.–15.vii.2009, 7 ♂♂ 3 ♀♀, MT, CJM; 3.vi.2009, 2 ♂♂. Velička, 400–420 m (83), 12.vi.1999, 1 ♂ 1 ♀; 27.x.2005, 3 ♂♂, L. Kazivec, 390–410 m (90), 15.ix.2009, 1 ♂. Velička, 325–350 m (95), 2.viii.2004, 2 ♂♂ 5 ♀♀, L; 4.vii.2005, 1 ♂; 27.x.2005, 4 ♂♂; 8.x.2008, 1 ♂; 16.ix.2009, 1 ♂, L. Hrubý potok, 340–370 m (101), 5.x.2009, 4 ♂♂, L; 14.vi.2010, 2 ♂♂. Radějovka, 270 m (117), 26.vi.2008, 1 ♂. Radějovka, 175 m (119), 9.x.2008, 1 ♂ pupa. Mandát, 350 m (123), 4.vi.–24.ix.2008, 6 ♂♂, MT, CJM; 26.vi.2008, 1 ♂. Sudoměřický potok, 220 m (127), 19.vi.2006, 1 ♀; 27.vi.2008, 1 ♂. Rybnický potok, 410–445 m (135), 28.v.–9.vii.2007, 2 ♂♂, MT, CJM. Rybnický potok, 380–400 m (136), 21.v.2005, 1 ♀; 27.vi.2005, 8 ♂♂ 1 ♀, L; 5.v.–7.ix.2010, 4 ♂♂ 1 ♀, MT, CM. Teplica, 345 m (137), 19.ix.2006, 1 ♂ 1 ♀. Zápechová, 520–530 m (141), 10.vi.2005, 9 ♂♂ 3 ♀♀; 18.vi.2010, 4 ♂♂ 1 ♀. Sviborka, 380 m (143), 24.vi.2008, 2 ♂♂ 1 ♀. Sviborka, 350–355 m (145), 25.v.2006, 1 ♂; 18.ix.2006, 1 ♂ 1 ♂ pupa; 24.ix.2009, 1 ♂. Říka, 375 m (152), 27.ix.2009, 1 ♂ 3 ♀♀. Lukšinka, 400–430 m (153), 23.v.2010, 1 ♂. RT Lukšinka, 420–435 m (154), 27.vi.2010, 1 ♂. Lukšinka, 375 m (155), 1.viii.2010, 3 ♂♂. Kochavecký potok, 410 m (178), 16.vii.2009, 1 ♀. Zelenský potok, 325–330 m (181),

Caddis flies (Trichoptera)

16.vii.2009, 2 ♂♂ 1 ♀; 25.ix.2009, 1 ♀ pupa. Rakové, 510 m (183), 11.vi.2005, 1 ♂. LT Rakové, 500–510 m (185), 11.vi.2005, 1 ♂; 27.x.2006, 1 ♂. Rakové, 440–450 m (186), 11.vi.2005, 2 ♂♂; 17.vi.2006, 5 ♂♂ 2 ♀♀; 16.x.2006, 1 ♂. LT Brumovka, 420 m (188), 17.vi.2006, 1 ♂ 1 ♀. Brumovka, 340–355 m (196), 1.viii.2004, 1 ♀, L. Hluboký potok, 400–420 m (210), 23.vii.2005, 1 ♂. Bylnička, 420 m (219), 23.vi.2005, 1 ♀, J. Ježek lgt. Bukový potok, 350–370 m (232), 15.vii.2009, 1 ♂. Bukový potok, 330 m (235), 26.x.2006, 1 ♂. Vlárka, 530–550 m (239), 17.vi.2010, 1 ♂ 1 ♀. Vlárka, 380 m (240), 9.vi.2005, 2 ♂♂. Vlárka, 290–320 m (246), 28.x.2005, 2 ♂♂. Drietomice, 400 m (250), 8.vii.2010, 2 ♂♂. LT Drietomice, 500–550 m (252), 13.vii.2007, 1 ♂. LT Drietomice, 440 m (253), 8.vii.2010, 1 ♂. LT Drietomice, 435–440 m (255), 4.vi.2007, 3 ♂♂; 5.viii.2007, 2 ♂♂; 14.x.2007, 1 ♂. Drietomice, 360–390 m (258), 4.vi.2007, 13 ♂♂ 1 ♀; 24.vi.2007, 7 ♂♂; 14.x.2007, 1 ♂; 8.vii.2010, 3 ♂♂ 2 ♀♀. Krátkovský potok, 450–485 m (261), 8.v.2008, 1 ♂; 31.v.2008, 2 ♂♂ 1 ♀; 27.vi.2008, 2 ♂♂; 18.x.2008, 2 ♂♂. Trstná, 450–480 m (264), 27.vi.2008, 2 ♂♂; 18.x.2008, 1 ♀. Krátkovský potok, 420 m (267), 4.vi.2007, 7 ♂♂ 2 ♀♀; 5.viii.2007, 2 ♂♂ 3 ♀♀; 14.x.2007, 4 ♂♂ 3 ♀♀. Hrnčářův potok, 470–485 m (268), 31.v.2008, 12 ♂♂ 1 ♀; 27.vi.2008, 2 ♂♂; 10.viii.2008, 3 ♂♂; 18.x.2008, 5 ♂♂ 1 ♀. Vlčí potok, 440 m (272), 31.v.2008, 5 ♂♂ 2 ♀♀. Krátkovský potok, 360 m (274), 5.v.2009, 1 ♂ pupa 1 ♀ pupa; 5.x.2009, 7 ♂♂ 3 ♀♀. Žitkovský potok, 440–450 m (276), 11.vii.2007, 1 ♀. Žitkovský potok, 360–380 m (281), 31.x.2007, 1 ♂; 5.v.2009, 1 ♀ pupa; 5.x.2009, 1 ♂. Hrubár, 650–670 m (286), 18.vi.2006, 2 ♂♂, J. Bojková lgt. Hrubár, 560–570 m (289), 25.vi.2008, 4 ♂♂ 2 ♀♀; 17.vii.2008, 3 ♂♂ 1 ♀. Soliskový potok, 680–780 m (291), 28.vi.2008, 2 ♂♂ 1 ♀. Soliskový potok, 580–590 m (292), 1.vi.2008, 4 ♂♂ 4 ♀♀; 28.vi.2008, 1 ♂; 19.x.2008, 1 ♀; 22.v.2010, 1 ♂ 1 ♀ pupa; 26.vi.2010, 2 ♂♂ 1 ♀ pupa. Hrubár, 435 m (295), 9.v.2008, 7 ♂♂, 1.vi.2008, 1 ♂ 1 ♀; 31.vii.2010, 2 ♀♀ pupae. LT Hrubár, 440 m (297), 31.vii.2010, 1 ♂ pupa; 9.x.2010, 2 ♂♂. Zlatný potok, 430–450 m (304), 9.v.2008, 7 ♂♂; 1.vi.2008, 3 ♂♂; 11.viii.2008, 1 ♂; 19.x.2008, 2 ♂♂ 1 ♀. Hrubár, 365–370 m (305), 1.vi.2008, 1 ♂; 11.viii.2008, 1 ♂; 19.x.2008, 2 ♂♂ 1 ♀. Klanečnice, 450 m (308), 2.vi.2007, 1 ♂. Klanečnice, 420 m (310), 2.vi.2007, 1 ♂; 22.vi.2007, 1 ♀. Svinárský potok, 670 m (313), 29.vi.2005, 1 ♂. Svinárský potok, 560–590 m (314), 7.vi.–27.vii.2005, 2 ♂♂ 1 ♀, MT, CJM. LT Svinárský potok, 580 m (315), 7.vii.2005, 1 ♂. Svinárský potok, 460 m (318), 7.vii.2005, 8 ♂♂ 2 ♀♀. RT Svinárský potok, 425 m (319), 7.vii.2005, 3 ♂♂ 1 ♀. Svinárský potok, 390–420 m (320), 7.vii.2005, 1 ♂; 26.vii.2005, 1 ♂.

Distribution and frequency in the Bílé Karpaty PLA: A common species in brooks and streams throughout the area. **Red List status:** –.

Rhyacophila nubila (Zetterstedt, 1840)

Material examined. Luhačovický potok, 285 m (33), 9.x.2010, 1 ♂. Velička, 400–420 m (83), 12.vi.1999, 1 ♂; 26.vii.2005, 3 ♂♂ 1 ♀; 27.x.2005, 1 ♂, L; 16.ix.2009, 7 ♂♂ 1 ♀. Velička, 325–350 m (95), 2.viii.2004, 2 ♂♂ 6 ♀♀, L; 8.x.2008, 1 ♂; 3.vi.2009, 2 ♂♂ 1 ♀; 25.vi.2009, 1 ♂; 14.ix.2009, 3 ♂♂ 1 ♀; 16.ix.2009, 2 ♂♂ 3 ♀♀, L. Hrubý potok, 340–370 m (101), 5.x.2009, 1 ♂, L. Velička, 205 m (103), 27.vii.2005, 1 ♂, L; 15.ix.2009, 1 ♀. Vlára, 345 m (146), 31.vii.2004, 1 ♀. Brumovka, 340–355 m (196), 31.vii.2004, 1 ♂ 2 ♂♂ pupae; 1.viii.2004, 5 ♂♂ 3 ♀♀; 30.x.2005, 2 ♂♂; 25.v.2006, 1 ♂; 9.x.2008, 1 ♂; 24.x.2010, 5 ♂♂. LT Brumovka, 400–430 m (198), 13.vii.2006, 2 ♂♂, L. Vlára, 285 m (236), 24.vii.2005, 1 ♂ 1 ♀; 12.vii.2006, 2 ♂♂; 14.vii.2006, 25 ♂♂ 31 ♀♀, L; 15.vii.2009, 3 ♂♂; 9.x.2008, 2 ♂♂ 1 ♀; 23.x.2010, 2 ♂♂. Vlárka, 290–320 m (246), 28.x.2005, 1 ♀. Klanečnice, 345–350 m (324), 6.x.2009, 3 ♂♂ 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Found only in lower reaches of streams. **Red List status:** –.

Comments. A common species in streams and rivers throughout the Czech Republic.

Rhyacophila obliterata McLachlan, 1863

Material examined. Olšava, 450–540 m (3), 27.ix.2009, 1 ♂. Vlčí potok, 440–450 m (4), 27.ix.2008, 1 ♂. Olšava, 350–380 m (8), 27.ix.2009, 1 ♂. Velička, 530–540 m (65), 27.x.2005, 22 ♂♂ 3 ♀♀. Velička, 470–480 m (68), 3.x.2005, 7 ♂♂, L; 27.x.2005, 2 ♂♂. LT Velička, 435 m (82), 16.ix.2009, 3 ♂♂ 1 ♀; 16.ix.–21.x.2009,

1 ♂, MT, CJM. Velička, 400–420 m (83), 27.x.2005, 2 ♂♂ 1 ♀, L. Kazivec, 390–410 m (90), 15.ix.2009, 6 ♂♂ 1 ♀. Velička, 325–350 m (95), 27.x.2005, 1 ♀; 8.x.2008, 1 ♂. Hrubý potok, 340–370 m (101), 7.x.2009, 1 ♂. Nedašovka, 450–470 m (202), 29.x.2005, 1 ♂. LT Nedašovka, 490–570 m (206), 18.ix.2004, 1 ♀, M. Horskák lgt. Hlubočský potok, 440–460 m (224), 23.x.2010, 3 ♂♂. Vlárka, 290–320 m (246), 23.x.2010, 1 ♂. LT Drietomice, 435–440 m (255), 14.x.2007, 1 ♀; 17.ix.2008, 1 ♂. Drietomice, 360–390 m (258), 14.x.2007, 2 ♂♂. Krátkovský potok, 450–485 m (261), 18.x.2008, 1 ♂ 1 ♀. Hrnčarův potok, 470–485 m (268), 18.x.2008, 1 ♂ 1 ♀. Svinárský potok, 460 m (318), 4.x.2005, 16 ♂♂ 1 ♀; 28.x.2005, 7 ♂♂. RT Svinárský potok, 425 m (319), 4.x.2005, 9 ♂♂ 2 ♀♀. Svinárský potok, 390–420 m (320), 4.x.2005, 11 ♂♂; 26.x.2005, 1 ♂.

Distribution and frequency in the Bílé Karpaty PLA: Quite frequent in submontane brooks and streams. **Red List status:** –.

Comments. Abundant in montane and submontane zones throughout the Czech Republic.

Rhyacophila philopotamoides McLachlan, 1879 (VU)

Published records. KRŮPALOVÁ *et al.* (2011): LT Brumovka, spring areas, 430–460 m (197).

Additional material examined. Olšava, 450–540 m (3), 19.vi.2007, 1 ♂. Gáborka, spring areas, 390–420 m (34), 27.vi.2010, 1 ♂ 1 ♀. Gáborka, 280 m (35), 23.v.2010, 2 ♂♂ 1 ♀. LT Luhačovický potok, 330 m (36), 27.vi.2009, 1 ♂, L. Nivnička, 480 m (38), 22.v.2010, 5 ♂♂; 26.vi.2010, 1 ♂. Pivný potok, 470 m (40), 26.vi.2010, 1 ♀. Pivný potok, 390 m (41), 22.v.2010, 1 ♂. RT Okluky, brooklets, 530–540 m (48), 30.v.2009, 2 ♂♂ 2 ♀♀; 27.vi.2009, 1 ♂. Velička, spring area, upper section, 850–900 m (58), 28.vi.2005, 1 ♂; 4.vii.2005, 3 ♂♂. Velička, 700–750 m (59), 3.viii.2004, 2 ♂♂; 7.vi.2005, 1 ♂; 28.vi.2005, 2 ♂♂ 2 ♀♀; 4.vii.2005, 11 ♂♂ 5 ♀♀. LT Velička, spring areas, brooklets, 720–760 m (61), 4.vi.2009, 5 ♂♂; 23.vi.2009, 2 ♂♂; 4.vii.2005, 1 ♂ 1 ♀. LT Velička, 700 m (62), 28.vi.2005, 2 ♂♂ 1 ♀. LT Velička, 550–560 m (63), 3.viii.2004, 2 ♂♂; 28.vi.2005, 1 ♂. LT Velička, spring area, 570–620 m (64), 3.viii.2004, 2 ♂♂; 7.vi.–25.vii.2005, 1 ♂ 4 ♀♀, MT, CJM; 4.vi.2009, 1 ♂. LT Kamenný potok, 620–650 m (69), 29.vi.2005, 1 ♂. LT Velička, right branch, 600 m (75), 23.vi.2009, 1 ♂ 2 ♀♀. LT Velička, right branch, 550 m (76), 5.vi.2009, 3 ♂♂. LT Velička, spring of left branch, 800 m (77), 5.vi.2009, 1 ♀. RT Velička, 450 m (84), 12.v.–3.vi.2009, 1 ♂, MT, CJM; 3.vi.2009, 1 ♂. Myjava, 580–650 m (130), 14.vi.2010, 1 ♂. LT Rybnický potok, spring area, 440 m (134), 6.vi.2005, 1 ♂. Zápechová, 520–530 m (141), 10.vi.2005, 2 ♂♂. LT Vlára, 450 m (150), 27.v.2010, 1 ♂. LT Rakové, spring areas and brooklets, 600–670 m (184), 23.vii.2005, 2 ♂♂; 6.vi.2006, 2 ♂♂, J. Ježek lgt.; 17.vi.2006, 4 ♂♂ 2 ♀♀; 22.vi.–13.vii.2006, 1 ♂, MT, CJM. LT Brumovka, spring areas and brooklets, 530–570 m (189), 17.vi.2006, 2 ♂♂. Dešňanský potok, spring area, brooklet, 530–570 m (194), 20.v.2006, 1 ♂. LT Brumovka, spring areas, 430–460 m (197), 25.vi.–19.vii.2006, 4 ♂♂, MT, BO. LT Brumovka, 400–430 m (198), 21.v.2006, 1 ♂. Hlubočský potok, 440–460 m (224), 24.vii.2005, 1 ♂. Bukový potok, spring area, 600 m (226), 24.v.2010, 1 ♂; 24.v.–4.vii.2010, 2 ♂♂, MT, CM. Vlárka, 580–600 m (238), 17.vi.2010, 1 ♂. RT Vlárka, 430–470 m (243), 25.v.2010, 1 ♂. LT Drietomice, spring areas and brooks, 550–600 m (251), 4.vi.2007, 1 ♂. Krátkovský potok, 450–485 m (261), 31.v.2008, 1 ♂; 27.vi.2008, 1 ♂. Hrnčarův potok, 470–485 m (268), 31.v.2008, 1 ♀. Hrubár, 650–670 m (286), 15.vi.2006, 3 ♀♀, J. Bojková lgt. LT Hrubár, spring area, 650–660 m (287), 7.viii.2008, 1 ♂, J. Ježek lgt. LT Hrubár, spring brook, 655–660 m (290), 1.vi.2008, 2 ♂♂ 1 ♀. Soliskový potok, 680–780 m (291), 28.vi.2008, 9 ♂♂ 2 ♀♀. Soliskový potok, 580–590 m (292), 22.v.2010, 1 ♂. LT Hrubár, spring brook, 705 m (296), 28.vi.2008, 2 ♂♂. LT Zlatný potok, 590–600 m (301), 12.vii.2007, 1 ♂. LT Zlatný potok, spring area, 470 m (303), 12.vii.2007, 1 ♀. RT Klanečnice, spring section, 650 m (311), 2.vi.2007, 1 ♂. RT Klanečnice, 460–500 m (312), 2.vi.2007, 3 ♂♂; 15.vi.2010, 2 ♂♂; 15.vi.–9.vii.2010, 1 ♂, MT, CM. Svinárský potok, 670 m (313), 29.vi.2005, 5 ♂♂ 3 ♀♀; 4.vi.2009, 1 ♂. Svinárský potok, 560–590 m (314), 7.vii.2005, 5 ♂♂; 19.v.–20.ix.2005, 11 ♂♂ 4 ♀♀, MT, CJM. RT Svinárský potok, 700 m (316), 29.vi.2005, 4 ♂♂ 3 ♀♀; 4.vi.2009, 2 ♂♂. LT Svinárský potok, spring area, 630 m (317), 29.vi.2005, 1 ♀. RT Svinárský potok, 425 m (319), 7.vii.2005, 2 ♂♂. LT Klanečnice, brook and spring area, 440–480 m (325), 15.vi.2010, 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: A frequent species in spring brooklets and small brooks in montane and submontane zones. **Red List status:** VU.

Comments. Recently recorded in the Czech Republic only from eastern Moravia: the Moravskoslezské Beskydy Mts. [Moravian-Silesian Beskids] (KOMZÁK *et al.* 2006) and the Bílé Karpaty Mts.

Rhyacophila polonica McLachlan, 1879

Material examined. Olšava, 350–380 m (8), 31.v.2009, 1 ♂ pupa; 28.vi.2009, 1 ♂. Gáborka, 280 m (35), 27.vi.2010, 5 ♂♂. Nivnička, 480 m (38), 26.vi.2010, 1 ♂ pupa. Pivný potok, 390 m (41), 26.vi.2010, 2 ♂♂; 31.vii.2010, 1 ♂. Korytnice, 345 m (45), 26.vi.2010, 1 ♂ pupa 2 ♀♀ pupae. Okluky, 520 m (47), 27.vi.2009, 1 ♂. Okluky, 350–370 m (51), 29.vii.2009, 1 ♂ pupa. Boršický potok, 370–420 m (54), 30.v.2009, 1 ♂ pupa. Boršický potok, 320 m (55), 30.v.2009, 1 ♂ pupa; 27.vi.2009, 1 ♂. Velička, spring area, upper section, 850–900 m (58), 3.viii.2004, 3 ♂♂; 15.ix.2004, 1 ♀; 17.ix.2009, 1 ♂. Velička, 700–750 m (59), 3.viii.2004, 11 ♂♂ 4 ♀♀; 28.vi.2005, 1 ♂; 4.vii.2005, 1 ♂; 28.vii.2005, 2 ♂♂. LT Velička, 550–560 m (63), 3.viii.2004, 6 ♂♂; 4.vii.2005, 4 ♂♂. LT Velička, spring area, 570–620 m (64), 3.viii.2004, 2 ♂♂; 28.vii.2005, 2 ♂♂. Velička, 530–540 m (65), 3.viii.2004, 5 ♂♂ 3 ♀♀; 4.vii.2005, 1 ♂. Velička, 470–480 m (68), 4.vii.2005, 3 ♂♂. LT Kamenný potok, 510–550 m (70), 29.vi.2005, 1 ♀. Kamenný potok, 510 m (72), 7.vii.2005, 1 ♂. LT Velička, left branch, 600 m (78), 16.ix.2009, 7 ♂♂ 1 ♀. LT Velička, 435 m (82), 26.vii.2005, 1 ♂; 22.vi.–5.viii.2009, 3 ♂♂, MT, CJM. Kazivec, 390–410 m (90), 2.viii.2004, 1 ♀. LT Velička, left branch, 500 m (92), 25.vi.2009, 1 ♂. LT Velička, 355–360 m (94), 25.vi.2009, 7 ♂♂ 1 ♀; 25.vi.–15.vii.2009, 1 ♀, MT, CJM. Járkovec, 320–365 m (113), 20.vi.–31.vii.2006, 2 ♂♂ 3 ♀♀, MT, CJM; 1.vii.2009, 1 ♂, L, J. Macek lgt. Mandát, 350 m (123), 4.–26.vi.2008, 1 ♂, MT, CJM. Rybnický potok, 410–445 m (135), 5.vii.2005, 1 ♂; 18.vi.–9.vii.2007, 1 ♂, MT, CJM; 9.vii.2007, 1 ♂. Rybnický potok, 380–400 m (136), 27.vi.2005, 3 ♂♂ 1 ♀; 27.vi.2005, 6 ♂♂ 1 ♀, L; 14.vi.–10.viii.2010, 3 ♂♂ 2 ♀♀, MT, CM. Rokytenka, 450–460 m (164), 14.vii.2009, 1 ♂. RT Rokytenka, left branch, 500 m (167), 14.vii.2009, 1 ♂. Zelenský potok, 410 m (176), 16.vii.2009, 4 ♂♂. Vápenický potok, 600–650 m (179), 16.vii.2009, 1 ♂. LT Brumovka, 450 m (190), 23.vii.2005, 3 ♂♂, L. Nedašovka, 450–470 m (202), 1.viii.2004, 2 ♂♂ 1 ♀. LT Bylnička brook, 500 m (217), 13.vii.2009, 1 ♂. Bylnička, 420 m (219), 13.vii.2009, 6 ♂♂. Bylnička, 360–380 m (221), 13.vii.2009, 1 ♀. Hlubočský potok, 440–460 m (224), 24.vii.2005, 6 ♂♂. Hlubočský potok, 330 m (225), 24.vii.2005, 1 ♂. Bukový potok, spring area, 600 m (226), 11.viii.–8.ix.2010, 1 ♂, MT, CM. Vlára, 285 m (236), 14.vii.2006, 1 ♂, L. RT Vlára, 350 m (237), 12.vii.2006, 1 ♂. Vlárka, 530–550 m (239), 17.vi.2010, 2 ♂♂. RT Vlárka, 430–470 m (243), 24.vii.2005, 1 ♂; 17.vi.2010, 1 ♂. RT Vlárka, 370 m (245), 24.vii.2005, 3 ♂♂. Vlárka, 290–320 m (246), 24.vii.2005, 1 ♂. LT Drietomice, 435–440 m (255), 4.vi.2007, 1 ♂; 24.vi.2007, 1 ♂. Drietomice, 360–390 m (258), 8.vii.2010, 1 ♂. Krátkovský potok, 450–485 m (261), 18.vi.2007, 1 ♀; 27.vi.2008, 13 ♂♂. Trstná, 450–480 m (264), 27.vi.2008, 1 ♂. Hrnčářův potok, 470–485 m (268), 10.viii.2008, 1 ♀. Rudický potok, 460–500 m (279), 19.vi.2007, 2 ♂♂. LT Předpolomský potok, 480 m (284), 20.vi.2007, 3 ♂♂. RT Hrubár, spring area, 640–650 m (288), 19.vii.–23.viii.2006, 1 ♂ 1 ♀, MT, BO. Hrubár, 560–570 m (289), 25.vi.2008, 3 ♂♂; 17.vii.2008, 1 ♂. Soliskový potok, 580–590 m (292), 28.vi.2008, 1 ♂. Zlatný potok, 550–590 m (299), 12.vii.2007, 1 ♂; 11.viii.2008, 2 ♂♂. LT Zlatný potok, 590–600 m (301), 19.x.2008, 1 ♂. Klanečnice, 450 m (308), 2.vi.2007, 4 ♂♂. RT Klanečnice, 460–500 m (312), 15.vi.–9.vii.2010, 1 ♂, MT, CM; 29.vi.2005, 1 ♂. Svinárský potok, 560–590 m (314), 7.vii.2005, 3 ♂♂; 29.vi.–26.x.2005, 1 ♂ 3 ♀♀, MT, CJM. Svinárský potok, 460 m (318), 7.vii.2005, 7 ♂♂ 1 ♀. RT Svinárský potok, 425 m (319), 7.vii.2005, 5 ♂♂. Svinárský potok, 390–420 m (320), 7.vii.2005, 4 ♂♂; 26.vii.2005, 3 ♂♂.

Distribution and frequency in the Bílé Karpaty PLA: Common and abundant in montane and submontane streams throughout the area. **Red List status:** –.

Rhyacophila pubescens Pictet, 1834

Published records. KOMZÁK & CHVOJKA (2005): LT Kazivec, 400 m (89). KŘOUPALOVÁ *et al.* (2011): LT Brumovka, spring areas, 430–460 m (197).

Additional material examined. Olšava, 450–540 m (3), 19.vi.2007, 4 ♂♂ 1 ♀; 12.x.2007, 1 ♂, J. Bojková lgt.; 27.ix.2009, 1 ♂ 1 ♀. Vlčí potok, 440–450 m (4), 27.ix.2008, 1 ♀; 27.ix.2009, 1 ♂. Olšava, 350–380 m (8),

28.vi.2009, 1 ♂. Nivnička, spring area, 580 m (37), 31.vii.2010, 1 ♂. Okluky, 350–370 m (51), 28.ix.2009, 1 ♂ 1 ♀. Boršický potok, 320 m (55), 27.vi.2009, 5 ♂♂; 28.ix.2009, 5 ♂♂ 1 ♀. LT Kazivec, 400 m (89), 1.vii.2005, 12 ♂♂ 1 ♀; 15.ix.2009, 4 ♂♂ 2 ♀♀. LT Velička, left branch, 500 m (92), 25.vi.2009, 5 ♂♂ 2 ♀♀; 15.ix.2009, 10 ♂♂ 4 ♀♀. LT Hrubý potok, 550 m (98), 25.vii.2005, 1 ♂. Hrubý potok, 400–415 m (99), 25.vii.2005, 3 ♂♂. RT Hrubý potok, 400–500 m (100), 25.vii.2005, 5 ♂♂ 1 ♀. Hrubý potok, 340–370 m (101), 25.vii.2005, 3 ♂♂ 1 ♀. Křekovský potok, 440–500 m (148), 17.vii.2009, 1 ♂. LT Křekovský potok, spring area, 570 m (149), 17.vii.2009, 6 ♂♂ 1 ♀. Rokytka, 450–460 m (164), 14.vii.2009, 4 ♂♂. RT Rokytka, left branch, 500 m (167), 14.vii.2009, 1 ♂. RT Rokytka, right branch, 500 m (168), 14.vii.2009, 6 ♂♂. Vápenický potok, 360 m (180), 16.vii.2009, 1 ♀. LT Brumovka, spring areas and brooklets, 530–570 m (189), 20.vi.2005, 1 ♀, J. Ježek lgt.; 13.vii.2006, 15 ♂♂ 4 ♀♀; 18.ix.2006, 5 ♂♂. Dešňanský potok, spring area, brooklet, 530–570 m (194), 18.ix.2006, 1 ♂. LT Brumovka, spring areas, 430–460 m (197), 25.vi.–19.vii.2006, 1 ♂ 1 ♀, MT, BO; 20.ix.–25.x.2006, 1 ♂ 1 ♀, MT, CJM; 30.ix.–21.x.2007, 1 ♂ 1 ♀, MT, BO. LT Brumovka, 400–430 m (198), 13.vii.2006, 6 ♂♂; 23.viii.2006, 3 ♂♂; 15.x.2006, 1 ♂. LT Nedašovka, brook and springs, 520 m (208), 14.vii.2006, 3 ♂♂. LT Bylnička, spring area, 600 m (215), 13.vii.2009, 18 ♂♂. LT Bylnička, spring, 550 m (216), 13.vii.2009, 1 ♂. LT Bylnička brook, 500 m (217), 13.vii.2009, 2 ♂♂. LT Bylnička, 450–550 m (218), 13.vii.2009, 9 ♂♂ 1 ♀. Bylnička, 420 m (219), 23.vi.2005, 1 ♂, J. Ježek lgt.; 13.vii.2009, 2 ♂♂ 3 ♀♀. RT Bylnička, 450 m (220), 13.vii.2009, 5 ♂♂ 1 ♀. Bylnička, 360–380 m (221), 13.vii.2009, 6 ♂♂ 1 ♀. RT Vlára, source area, 420 m (222), 18.vi.2010, 1 ♂. Hlubočský potok, 440–460 m (224), 24.vii.2005, 1 ♂ 1 ♀; 18.vi.2008, 1 ♂, J. Ježek lgt. Hlubočský potok, 330 m (225), 24.vii.2005, 1 ♂. Bukový potok, spring area, 600 m (226), 4.vii.2010, 2 ♂♂; 4.vii.–11.viii.2010, 2 ♂♂ 1 ♀, MT, CM. RT Bukový potok, spring area, 430 m (229), 15.vii.2009, 4 ♂♂. Bukový potok, 350–370 m (232), 15.vii.2009, 6 ♂♂. LT Bukový potok, spring area, 450–480 m (233), 15.vii.2009, 3 ♂♂ 1 ♀. RT Vlára, 350 m (237), 12.vii.2006, 2 ♂♂. Vlárka, 530–550 m (239), 17.vi.2010, 1 ♂. RT Vlárka, spring area, 530–550 m (241), 17.vi.2010, 2 ♂♂; 5.vii.2010, 4 ♂♂. RT Vlárka, spring areas and brooks, 540–560 m (242), 5.vii.2010, 2 ♂♂ 2 ♀♀. RT Vlárka, 430–470 m (243), 5.vii.2010, 1 ♀. RT Vlárka, spring areas, 460–550 m (244), 5.vii.2010, 1 ♀. LT Drietomice, 620–650 m (249), 8.vii.2010, 1 ♀. LT Drietomice, spring areas and brooks, 550–600 m (251), 4.vi.2007, 1 ♂ 1 ♀; 24.vi.2007, 5 ♂♂; 13.vii.2007, 1 ♀. LT Drietomice, 500–550 m (252), 13.vii.2007, 4 ♂♂. LT Drietomice, 435–440 m (255), 20.vi.2007, 1 ♂ 1 ♀; 24.vi.2007, 2 ♂♂; 13.vii.2007, 1 ♂. Trstná, 450–480 m (264), 18.vi.2007, 1 ♂ 1 ♀; 27.vi.2008, 4 ♂♂ 1 ♀; 18.x.2008, 1 ♂. LT Trstná, 470 m (265), 27.vi.2008, 6 ♂♂. RT Trstná, spring area, 450–460 m (266), 18.x.2008, 1 ♂. LT Vlčí potok, spring area, 580 m (271), 7.vii.2010, 3 ♂♂. Vlčí potok, 440 m (272), 10.viii.2008, 1 ♂. LT Žitkovský potok, spring areas, 460–520 m (275), 29.v.–19.vi.2007, 1 ♂, MT, CJM. Rudický potok, 460–500 m (279), 19.vi.2007, 1 ♂. LT Předpolomský potok, 480 m (284), 20.vi.2007, 1 ♀. RT Hrubár, 380–450 m (306), 12.vii.2007, 1 ♀. LT Svinárský potok, 580 m (315), 7.vii.2005, 2 ♂♂ 1 ♀. RT Svinárský potok, 425 m (319), 4.x.2005, 1 ♀. Svinárský potok, 390–420 m (320), 7.vii.2005, 1 ♂; 26.vii.2005, 2 ♂♂. RT Svinárský potok, spring area, 400 m (321), 26.vii.2005, 15 ♂♂.

Distribution and frequency in the Bílé Karpaty PLA: Very common in calcareous brooks with tufa deposits up to 600 m a.s.l. **Red List status:** –.

Comments. This calcibiontic species was ascertained from Moravia (the Bílé Karpaty PLA) only recently (KOMZÁK & CHVOJKA 2005).

Rhyacophila tristis Pictet, 1834

Material examined. Vlčí potok, 440–450 m (4), 31.v.2009, 1 ♂ pupa. Olšava, 350–380 m (8), 19.vi.2007, 21 ♂♂ 18 ♀♀; 28.vi.2009, 1 ♂ 2 ♀♀; 7.vii.2010, 7 ♂♂ 2 ♀♀. Koménka, 375 m (16), 22.v.2010, 4 ♂♂ 3 ♀♀; 26.vi.2010, 1 ♀. Nivnička, 480 m (38), 26.vi.2010, 3 ♂♂ 1 ♀. Pivný potok, 390 m (41), 22.v.2010, 2 ♂♂ 1 ♀. Lubná, 325 m (42), 4.vi.2007, 6 ♂♂ 3 ♀♀. Velička, 700–750 m (59), 3.viii.2004, 1 ♂; 7.vi.2005, 26 ♂♂ 4 ♀♀; 28.vi.2005, 2 ♂♂ 7 ♀♀; 4.vii.2005, 3 ♂♂ 2 ♀♀. LT Velička, 550–560 m (63), 28.vi.2005, 10 ♂♂ 3 ♀♀; 4.vii.2005, 2 ♂♂ 2 ♀♀. LT Velička, spring area, 570–620 m (64), 4.vi.2009, 2 ♂♂. Velička, 530–540 m (65), 3.viii.2004, 1 ♂ 2 ♀♀; 7.vi.2005, 5 ♂♂ 2 ♀♀; 28.vi.2005, 21 ♂♂ 7 ♀♀; 4.vii.2005, 14 ♂♂ 17 ♀♀. Velička, 470–480 m (68), 7.vi.2005, 8 ♂♂ 2 ♀♀; 28.vi.2005, 13 ♂♂ 8 ♀♀; 4.vii.2005, 7 ♂♂ 8 ♀♀. LT Kamenný potok, 510–550 m (70), 7.vi.2005, 1 ♂; 29.vi.2005, 4 ♂♂. LT Velička, right branch, 600 m (75), 5.vi.2009, 1 ♂. LT

Caddis flies (Trichoptera)

Velička, left branch, 600 m (78), 5.vi.2009, 5 ♂♂ 2 ♀♀. LT Velička, 450 m (81), 3.vi.2009, 6 ♂♂ 3 ♀♀. LT Velička, 435 m (82), 12.v.–15.vii.2009, 9 ♂♂ 3 ♀♀, MT, CJM; 3.vi.2009, 3 ♂♂ 3 ♀♀. Velička, 400–420 m (83), 12.vi.1999, 3 ♂♂; 3.vi.2009, 4 ♂♂ 2 ♀♀. LT Velička, left branch, 500 m (92), 2.vi.2009, 1 ♂. LT Velička, 355–360 m (94), 12.v.–25.vi.2009, 5 ♂♂ 2 ♀♀, MT, CJM; 2.vi.2009, 6 ♂♂ 1 ♀; 25.vi.2009, 3 ♂♂. Velička, 325–350 m (95), 2.vi.2009, 1 ♂. Hrubý potok, 455 m (97), 14.vi.2010, 8 ♂♂ 2 ♀♀. Hrubý potok, 400–415 m (99), 14.vi.2010, 3 ♂♂. Rybnický potok, 410–445 m (135), 18.vi.–9.vii.2007, 1 ♂, MT, CJM. Rybnický potok, 380–400 m (136), 21.v.2005, 1 ♂ 2 ♀♀; 6.vi.2005, 11 ♂♂ 5 ♀♀; 5.–24.v.2010, 1 ♂, MT, CM. Zápechová, 520–530 m (141), 10.vi.2005, 2 ♂♂; 18.vi.2010, 2 ♂♂ 3 ♀♀. Rokytenka, 450–460 m (164), 14.vii.2009, 1 ♀. Vápenický potok, 360 m (180), 16.vii.2009, 4 ♀♀. LT Rakové, spring areas and brooklets, 600–670 m (184), 17.vi.2006, 1 ♂. LT Nedašovka, 600–610 m (205), 10.vi.2005, 1 ♂ 2 ♀♀. Bylnička, 420 m (219), 23.vi.2005, 1 ♂ 1 ♀, J. Ježek lgt.; 13.vii.2009, 2 ♂♂ 2 ♀♀. Bylnička, 360–380 m (221), 13.vii.2009, 8 ♂♂ 11 ♀♀. Bukový potok, 350–370 m (232), 15.vii.2009, 3 ♂♂. Vlárka, 530–550 m (239), 17.vi.2010, 4 ♂♂ 1 ♀. Vlárka, 380 m (240), 9.vi.2005, 10 ♂♂ 6 ♀♀; 30.v.2007, 2 ♀♀, J. Ježek lgt.; 25.v.2010, 3 ♂♂; 5.vii.2010, 2 ♂♂ 1 ♀. Vlárka, 290–320 m (246), 24.vii.2005, 4 ♂♂ 1 ♀. Drietomice, 400 m (250), 8.vii.2010, 12 ♂♂ 10 ♀♀. LT Drietomice, 440 m (253), 8.vii.2010, 1 ♂ 1 ♀. LT Drietomice, 435–440 m (255), 4.vi.2007, 2 ♂♂ 1 ♀; 24.vi.2007, 1 ♂. Drietomice, 360–390 m (258), 4.vi.2007, 24 ♂♂ 22 ♀♀; 24.vi.2007, 15 ♂♂ 11 ♀♀; 8.vii.2010, 10 ♂♂ 5 ♀♀. Krátkovský potok, 450–485 m (261), 18.vi.2007, 1 ♀; 31.v.2008, 17 ♂♂ 10 ♀♀. Krátkovský potok, 420 m (267), 4.vi.2007, 9 ♂♂ 3 ♀♀. Hrnčářův potok, 470–485 m (268), 31.v.2008, 18 ♂♂ 4 ♀♀; 27.vi.2008, 2 ♂♂. Hrnčářův potok, 420 m (270), 18.vi.2007, 5 ♂♂ 2 ♀♀. Vlčí potok, 440 m (272), 31.v.2008, 7 ♂♂ 12 ♀♀. Žitkovský potok, 440–450 m (276), 19.vi.2007, 2 ♂♂ 1 ♀; 11.vii.2007, 2 ♀♀. Žitkovský potok, 360–380 m (281), 5.v.2009, 1 ♂ pupa. LT Predpolomský potok, spring area and brooklet, 630–650 m (283), 24.vi.2007, 1 ♀. Hrubár, 650–670 m (286), 15.vi.2006, 3 ♂♂ 6 ♀♀, J. Bojková lgt. Hrubár, 560–570 m (289), 25.vi.2008, 1 ♀. Soliskový potok, 580–590 m (292), 1.vi.2008, 5 ♂♂ 2 ♀♀; 22.v.2010, 1 ♂; 26.vi.2010, 2 ♂♂ 1 ♀. Zlatný potok, 550–590 m (299), 1.vi.2008, 1 ♀. LT Zlatný potok, 590–600 m (301), 12.vii.2007, 1 ♀. Zlatný potok, 430–450 m (304), 1.vi.2008, 16 ♂♂ 10 ♀♀. Klanečnice, 450 m (308), 2.vi.2007, 1 ♂. Svinárský potok, 670 m (313), 29.vi.2005, 1 ♂. Svinárský potok, 560–590 m (314), 19.v.–29.vi.2005, 2 ♀♀, MT, CJM. Svinárský potok, 460 m (318), 7.vii.2005, 21 ♂♂ 9 ♀♀. RT Svinárský potok, 425 m (319), 7.vii.2005, 5 ♂♂ 4 ♀♀. Svinárský potok, 390–420 m (320), 7.vii.2005, 9 ♂♂ 3 ♀♀; 26.vii.2005, 1 ♂.

Distribution and frequency in the Bílé Karpaty PLA: Common and abundant in montane and submontane brooks. **Red List status:** –.

Family GLOSSOSOMATIDAE

Agapetus delicatulus McLachlan, 1884

(CR)

Material examined. Mandát, 265 m (125), 27.vi.2008, 1 ♀. Sudoměřický potok, 220 m (127), 8.vi.2005, 7 ♀♀; 19.vi.2006, 3 ♀♀; 12.vii.2006, 1 ♀. Sudoměřický potok, 210 m (128), 12.vii.2006, 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Found only in the southern part of the area in colline streams with stony substrata. **Red List status:** CR.

Comments. Very rare in the Czech Republic, recently found only in the southernmost part of the Bílé Karpaty PLA.

Agapetus fuscipes Curtis, 1834

Material examined. LT Hrubár, spring area, 650–660 m (287), 17.vi.–12.viii.2007, 2 ♂♂, MT, BO; 25.vi.2008, 22 ♂♂ 5 ♀♀. RT Hrubár, spring area, 640–650 m (288), 3.vii.–23.viii.2006, 2 ♀♀, MT, BO; 18.vi.2007, 6 ♂♂ 3 ♀♀; 25.vi.2008, 10 ♂♂ 2 ♀♀. LT Hrubár, spring brook, 655–660 m (290), 1.vi.2008, 22 ♂♂ 2 ♀♀; 25.vi.2008, 3 ♂♂ 2 ♀♀; 28.vi.2008, 1 ♂ 5 ♀♀. Soliskový potok, 680–780 m (291), 28.vi.2008, 7 ♂♂. LT Zlatný potok, 590–600 m (301), 12.vii.2007, 1 ♂; 11.viii.2008, 1 ♂.

Distribution and frequency in the Bílé Karpaty PLA: Recorded only in springs and spring brooks with coarse gravelly or stony substrata in the vicinity of the Velký Lopeník Mt. **Red List status:** –.

Comments. Although generally widely distributed, it is only locally abundant in the Czech Republic.

Agapetus ochripes Curtis, 1834

Material examined. LT Velička, spring area, 570–620 m (64), 7.–28.vi.2005, 2 ♂♂, MT, CJM. Velička, 530–540 m (65), 4.vii.2005, 2 ♀♀. Velička, 470–480 m (68), 28.vi.2005, 1 ♂ 1 ♀. Krátkovský potok, 420 m (267), 4.vi.2007, 1 ♂ 2 ♀♀. Svinárský potok, 390–420 m (320), 7.vii.2005, 1 ♂ 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Found rarely in several submontane to montane streams. **Red List status:** –.

Comments. Widespread in the Czech Republic, but occurring only locally in streams at medium altitudes.

Glossosoma conformis Neboiss, 1963

Material examined. LT Velička, 550–560 m (63), 4.vii.2005, 1 ♀. Velička, 530–540 m (65), 4.vii.2005, 1 ♂. Velička, 470–480 m (68), 3.viii.2004, 1 ♀. 28.vi.2005, 2 ♀♀; 4.vii.2005, 1 ♂ 3 ♀♀. Drietomice, 360–390 m (258), 4.vi.2007, 1 ♂. Predpolomský potok, 480 m (282), 20.vi.2007, 1 ♂. Hrubár, 560–570 m (289), 25.vi.2008, 2 ♂♂. Soliskový potok, 580–590 m (292), 1.vi.2008, 1 ♀. Svinárský potok, 560–590 m (314), 7.–29.vi.2005, 1 ♀, MT, CJM. Svinárský potok, 460 m (318), 7.vii.2005, 3 ♂♂ 3 ♀♀. Svinárský potok, 390–420 m (320), 7.vii.2005, 1 ♂.

Distribution and frequency in the Bílé Karpaty PLA: Found only infrequently in some streams. **Red List status:** –.

Comments. A generally abundant species of montane and submontane streams in the Czech Republic.

Synagapetus armatus (McLachlan, 1879)

(VU)

Published records. KOMZÁK & CHVOJKA (2005): RT Nedašovka, spring area, 590–605 m (199); LT Nedašovka, 600–610 m (205).

Additional material examined. LT Rakové, spring areas and brooklets, 600–670 m (184), 23.vii.2005, 1 ♂ 2 ♀♀; 13.vii.2006, 1 ♂ 2 ♀♀; 22.vi.–23.viii.2006, 1 ♂ 5 ♀♀, MT, CJM. RT Nedašovka, spring area, 590–605 m (199), 13.vii.2006, 10 ♂♂ 4 ♀♀.

Distribution and frequency in the Bílé Karpaty PLA: Restricted to spring areas in the northernmost part of the area (the Ploštiny and Průklesy massifs). **Red List status:** VU.

Comments. In the Czech Republic, this Carpathian species has been recorded only recently (KOMZÁK & CHVOJKA 2005) and is currently known only from the Bílé Karpaty PLA.

***Synagapetus dubitans* McLachlan, 1879**

Published records. CHVOJKA *et al.* (2009): LT Brumovka, spring areas, 430–460 m (197); LT Nedašovka, spring area, 630 m (207); RT Trstná, spring area, 450–460 m (266); RT Krátkovský potok, spring brook, 585 m (259); LT Hrnčarův potok, spring area and brooklet, 490 m (269); LT Hrubár, spring area, 650–660 m (287); LT Drietomice, spring areas and brooks, 550–600 m (251).

Additional material examined. LT Bylnička, spring area, 600 m (215), 13.vii.2009, 1 ♂. LT Bylnička, spring, 550 m (216), 13.vii.2009, 1 ♂ 6 ♀♀.

Distribution and frequency in the Bílé Karpaty PLA: Occurring rarely in spring areas in the northern part of the area. **Red List status:** Not evaluated by CHVOJKA *et al.* (2005) but probably threatened.

Comments. A central European species which has been recorded from the Czech Republic (Bílé Karpaty Mts.) only recently (CHVOJKA *et al.* 2009).

***Synagapetus iridipennis* McLachlan, 1879**

Material examined. LT Olšava, spring areas and brooklets, 540–570 m (2), 31.v.2009, 9 ♂♂ pupae 6 ♀♀ pupae. Olšava, 450–540 m (3), 31.v.2009, 4 ♂♂ pupae 1 ♀ pupa. Nivnička, spring area, 580 m (37), 26.vi.2010, 4 ♂♂ pupae 6 ♀♀ pupae. Nivnička, 480 m (38), 22.v.2010, 3 ♂♂ pupae 1 ♀ pupa; 26.vi.2010, 1 ♀ pupa. Pivný potok, spring brooks, 550–560 m (39), 26.vi.2010, 4 ♂♂ 1 ♂ pupa 2 ♀♀ 1 ♀ pupa. Pivný potok, 470 m (40), 26.vi.2010, 1 ♂. Korytnice, 345 m (45), 22.v.2010, 2 ♂♂ pupae 3 ♀♀ pupae. Velička, spring area, upper section, 850–900 m (58), 4.vii.2005, 2 ♂♂. Velička, 700–750 m (59), 3.viii.2004, 27 ♂♂ 13 ♀♀; 28.vi.2005, 16 ♂♂ 2 ♀♀; 4.vii.2005, 18 ♂♂ 6 ♀♀; 28.vii.2005, 57 ♂♂ 3 ♀♀. RT Velička, spring area, 600 m (60), 28.vii.2005, 4 ♂♂ 10 ♀♀. LT Velička, spring areas, brooklets, 720–760 m (61), 23.vi.2009, 1 ♂. LT Velička, 550–560 m (63), 3.viii.2004, 1 ♂ 3 ♀♀; 28.vi.2005, 10 ♂♂; 4.vii.2005, 16 ♂♂. LT Velička, spring area, 570–620 m (64), 3.viii.2004, 1 ♂ 5 ♀♀; 28.vi.2005, 3 ♂♂; 28.vii.2005, 3 ♂♂ 1 ♀; 28.vi.–22.ix. 2005, 6 ♂♂ 8 ♀♀, MT, CJM. Velička, 530–540 m (65), 3.viii.2004, 13 ♂♂ 5 ♀♀; 28.vi.2005, 2 ♂♂ 1 ♀. LT Kamenný potok, 620–650 m (69), 29.vi.2005, 5 ♂♂. LT Velička, left branch, 600 m (78), 5.vi.2009, 4 ♀♀. LT Velička, 435 m (82), 3.vi.2009, 1 ♀. LT Velička, 355–360 m (94), 2.vi.–15.vii.2009, 2 ♂♂, MT, CJM; 3.vi.2009, 13 ♂♂ 4 ♀♀; 25.vi.2009, 2 ♂♂ 1 ♀. LT Hrubý potok, 550 m (98), 25.vii.2005, 1 ♀. LT Járkovec, spring area, 450–470 m (112), 20.vi.2006, 2 ♂♂. Járkovec, 320–365 m (113), 20.vi.–10.vii.2006, 1 ♂ 1 ♀, MT, CJM; 10.vii.2006, 5 ♂♂. RT Sviborka, 390–425 m (142), 24.vi.2008, 5 ♂♂. RT Sviborka, 400–440 m (144), 24.vi.2008, 5 ♂♂. Křekovský potok, springs, 580 m (147), 17.vii.2009, 2 ♂♂ 1 ♀. RT Rokytěnka, right branch, 400 m (169), 14.vii.2009, 1 ♂ 1 ♀. Zelenský potok, 410 m (176), 16.vii.2009, 1 ♂ 1 ♀. LT Rakové, spring areas and brooklets, 600–670 m (184), 23.vii.2005, 6 ♂♂ 13 ♀♀; 17.vi.2006, 3 ♂♂ 2 ♂♂ pupae; 22.vi.2006, 1 ♂; 13.vii.2006, 65 ♂♂ 30 ♀♀; 22.vi.–31.vii.2006, 7 ♂♂ 6 ♀♀, MT, CJM. LT Rakové, 500–510 m (185), 11.vi.2005, 1 ♂ 2 ♀♀. Rakové, 440–450 m (186), 23.vii.2005, 1 ♀; 17.vi.2006, 1 ♂. LT Brumovka, spring areas and brooklets, 530–570 m (189), 31.vii.2004, 1 ♂ pupa 1 ♀; 17.vi.2006, 2 ♂♂ 1 ♂ pupa 1 ♀ pupa; 13.vii.2006, 12 ♂♂ 3 ♀♀; 28.v.2007, 1 ♂, J. Ježek lgt. LT Brumovka, 400–430 m (198), 14.vii.2006, 1 ♀. RT Nedašovka, spring area, 590–605 m (199), 13.vii.2006, 1 ♂ 3 ♀♀. LT Nedašovka, 600–610 m (205), 1.viii.2004, 11 ♂♂ 3 ♀♀; 14.vii.2006, 9 ♂♂ 5 ♀♀. LT Nedašovka, 490–570 m (206), 1.viii.2004, 4 ♂♂ 2 ♀♀. LT Nedašovka, spring area, 630 m (207), 24.viii.2006, 1 ♂ 2 ♀♀. LT Nedašovka, brook and springs, 520 m (208), 14.vii.2006, 16 ♂♂ 8 ♀♀. Návojník, 520 m (212), 14.vii.2006, 1 ♂ 4 ♀♀. Návojník, 410 m (213), 14.vii.2006, 2 ♀♀. LT Bylnička, spring area, 600 m (215), 13.vii.2009, 3 ♂♂ 1 ♀. Bylnička, 420 m (219), 23.vi.2005, 1 ♂, J. Ježek lgt. RT Vlára, source area, 420 m (222), 18.vi.2010, 1 ♀. Hlubočský potok, 330 m (225), 24.vii.2005, 1 ♂. Bukový potok, spring area, 600 m (226), 16.vi.–11.viii.2010, 2 ♂♂, MT, CM. RT Bukový potok, spring area, 430 m (229), 15.vii.2009, 8 ♂♂ 5 ♀♀. Vlárka, 530–550 m (239), 17.vi.2010, 1 ♂. RT Vlárka, 430–470 m (243), 17.vi.2010, 10 ♂♂ 5 ♀♀; 5.vii.2010, 2 ♂♂ 1 ♀. LT Drietomice, spring areas and brooks, 550–600 m (251), 4.vi.2007, 2 ♂♂ 2 ♀♀; 24.vi.2007, 2 ♂♂; 13.vii.2007, 1 ♂. LT Drietomice, 500–550 m (252), 13.vii.2007, 1 ♀. LT Drietomice, 440 m (253), 8.vii.2010, 1 ♂. LT Drietomice, 435–440 m (255), 4.vi.2007, 1 ♂ 1 ♀; 24.vi.2007, 1 ♂. RT Krátkovský potok, 510 m (260), 27.vi.2008, 3 ♂♂. Krátkovský potok, 450–485 m (261), 31.v.2008, 1 ♂; 27.vi.2008, 1 ♂. Krátkovský potok, 420 m (267), 4.vi.2007, 1 ♂. Predpolomský potok, 480 m (282),

20.vi.2007, 1 ♂. LT Predpolomský potok, spring area and brooklet, 630–650 m (283), 4.vi.2007, 1 ♂. Hrubár, 650–670 m (286), 18.vi.2006, 1 ♀. LT Hrubár, spring area, 650–660 m (287), 25.vi.2008, 3 ♂♂ 2 ♀♀. Hrubár, 560–570 m (289), 20.vi.2007, 1 ♂. LT Hrubár, spring brook, 655–660 m (290), 1.vi.2008, 6 ♂♂; 25.vi.2008, 1 ♂; 28.vi.2008, 1 ♀. Soliskový potok, 680–780 m (291), 28.vi.2008, 11 ♂♂ 1 ♀. Soliskový potok, 580–590 m (292), 1.vi.2008, 1 ♂; 25.vi.2008, 16 ♂♂; 28.vi.2008, 2 ♂♂ 1 ♀; 22.v.2010, 1 ♂ pupa. Zlatný potok, 550–590 m (299), 12.vii.2007, 1 ♀; 1.vi.2008, 5 ♂♂. LT Zlatný potok, 590–600 m (301), 12.vii.2007, 1 ♂ 2 ♀♀; 11.viii.2008, 2 ♂♂ 6 ♀♀. Zlatný potok, 430–450 m (304), 1.vi.2008, 19 ♂♂. Klanečnice, 450 m (308), 2.vi.2007, 1 ♂; 23.vi.2007, 1 ♀. RT Klanečnice, 460–500 m (312), 15.vi.–12.viii.2010, 6 ♂♂, MT, CM; 9.vii.2010, 1 ♂. Svinárský potok, 560–590 m (314), 7.vii.2005, 1 ♂ 1 ♀; 7.vi.–27.vii.2005, 6 ♂♂ 4 ♀♀, MT, CJM. Svinárský potok, 460 m (318), 7.vii.2005, 1 ♀. LT Klanečnice, brook and spring area, 440–480 m (325), 15.vi.2010, 17 ♂♂ 4 ♀♀.

Distribution and frequency in the Bílé Karpaty PLA: Common and abundant species in spring areas and brooklets throughout the area. **Red List status:** –.

Synagapetus moselyi (Ulmer, 1938)

(VU)

Material examined. Kolelač, 335 m (10), 23.v.2010, 1 ♂ 2 ♀♀. Kladenska, 390 m (22), 23.vi.2008, 1 ♀; 23.vi.–16.vii.2008, 1 ♀, MT, CJM. LT Luhačovický potok, 330 m (29), 23.v.2010, 2 ♂♂ pupae 1 ♀ pupa; 27.vi.2010, 3 ♂♂. RT Sviborka, 390–425 m (142), 24.vi.2008, 5 ♂♂ 1 ♀. Lukšinka, 400–430 m (153), 23.v.2010, 7 ♂♂ 3 ♂♂ pupae 4 ♀♀ 1 ♀ pupa; 27.vi.2010, 2 ♂♂ 4 ♀♀; 1.viii.2010, 1 ♀. Lukšinka, 375 m (155), 27.vi.2010, 1 ♂. LT Lipovský potok, 415 m (157), 23.v.2010, 1 ♂ pupa. RT Rokytenka, right branch, 400 m (169), 14.vii.2009, 10 ♂♂ 6 ♀♀. RT Rokytenka, 365 m (170), 14.vii.2009, 1 ♀. LT Krátkovský potok, spring area, 485 m (262), 31.v.2008, 1 ♀. RT Klanečnice, 460–500 m (312), 25.v.–12.viii.2010, 4 ♂♂ 1 ♀, MT, CM.

Distribution and frequency in the Bílé Karpaty PLA: Local, although sometimes abundant in submontane brooks. **Red List status:** VU.

Comments. A rare species, restricted to spring brooklets and brooks with coarse gravelly and stony substrata in the Czech Republic; in Moravia, it has been published only from the Moravský kras [= Moravian Karst] PLA so far (SEDLÁK 1967).

Family HYDROPTILIDAE

Agraylea sexmaculata Curtis, 1834

Material examined. Lom Rasová NM (14), 31.v.2008, 1 ♂, L. Velička, 325–350 m (95), 14.ix.2009, 1 ♂, L.

Distribution and frequency in the Bílé Karpaty PLA: Collected only rarely. **Red List status:** –.

Comments. This species of standing waters overgrown by macrophytes is widespread but local in the Czech Republic.

Allotrichia pallicornis (Eaton, 1873)

(CR)

Material examined. Svinárský potok, 460 m (318), 7.vii.2005, 10 ♂♂ 10 ♀♀. Svinárský potok, 390–420 m (320), 26.vii.2005, 1 ♂.

Distribution and frequency in the Bílé Karpaty PLA: Rare, found only in the lower stretch of the Svinárský potok brook (right tributary of the Klanečnice stream). **Red List status:** CR.

Comments. A very rare species in the Czech Republic; the Svinárský potok brook is one of two streams with reliable recent findings.

***Hydroptila angulata* Mosely, 1922**

Published record. KOMZÁK & CHVOJKA (2005): pond S Lipov (105).

Additional material examined. Luhačovický potok, 285 m (33), 9.x.2010, 1 ♂. Velička, 205 m (103), 27.vii.2005, 31 ♂♂, L; 15.ix.2009, 12 ♂♂, L.

Distribution and frequency in the Bílé Karpaty PLA: Found only rarely; abundant in lower stretch of the Velička stream. **Red List status:** –.

***Hydroptila angustata* Mosely, 1939**

(CR)

Published record. KOMZÁK & KROČA (2011): Luhačovický potok, 285 m (33).

Distribution and frequency in the Bílé Karpaty PLA: Only found in the Luhačovický potok stream. **Red List status:** CR.

Comments. A very rare species in the Czech Republic; there have been only a few records from Bohemia (CHVOJKA & NOVÁK 2001) and Moravia (KOMZÁK & KROČA 2011).

***Hydroptila forcipata* (Eaton, 1873)**

Published record. CHVOJKA & NOVÁK (2001): Velička, 400–420 m (83).

Additional material examined. Lom Rasová NM (14), 31.v.2008, 2 ♂♂, L. Velička, 470–480 m (68), 4.vii.2005, 1 ♂. Velička, 400–420 m (83), 26.vii.2005, 3 ♀♀; 16.ix.2009, 1 ♀. Velička, 325–350 m (95), 2.viii.2004, 22 ♂♂ 46 ♀♀, L; 14.ix.2009, 11 ♂♂ 22 ♀♀, L. Hrubý potok, 340–370 m (101), 25.vii.2005, 3 ♂♂ 2 ♀♀; 26.vii.2005, 14 ♂♂ 46 ♀♀, L; 5.x.2009, 1 ♀, L. Velička, 205 m (103), 27.vii.2005, 17 ♂♂ 25 ♀♀, L; 15.ix.2009, 20 ♂♂ 10 ♀♀, L. Pond S Lipov (105), 3.viii.2004, 1 ♂, L. Járkovec, 320–365 m (113), 29.v.–20.vi.2006, 1 ♀, MT, CJM. Rybnický potok, 380–400 m (136), 27.vi.2005, 1 ♀, L; 14.vi.–13.vii.2010, 1 ♀, MT, CM. LT Brumovka, 450 m (190), 23.vii.2005, 1 ♀, L. Brumovka, 340–355 m (196), 1.viii.2004, 9 ♂♂ 21 ♀♀, L. LT Brumovka, 400–430 m (198), 13.vii.2006, 1 ♀, L. Bukový potok, 330 m (235), 15.vii.2009, 2 ♂♂ 4 ♀♀. Vlára, 285 m (236), 14.vii.2006, 15 ♂♂ 15 ♀♀, L; 15.vii.2009, 1 ♂ 2 ♀♀. Drietomice, 360–390 m (258), 5.viii.2007, 4 ♂♂ 2 ♀♀. Krátkovský potok, 420 m (267), 5.viii.2007, 1 ♀. Hrubár, 435 m (295), 1.vi.2008, 1 ♀. Svinárský potok, 560–590 m (314), 7.–29.vi.2005, 1 ♂, MT, CJM.

Distribution and frequency in the Bílé Karpaty PLA: Common in submontane and colline streams throughout the area. **Red List status:** –.

***Hydroptila lotensis* Mosely, 1930**

Published record. KOMZÁK & CHVOJKA (2005): pond S Lipov (105).

Additional material examined. Lom Rasová NM (14), 23.vi.2007, 1 ♂, L; 31.v.2008, 1 ♂, L. Velička, 205 m (103), 27.vii.2005, 13 ♂♂, L; 15.ix.2009, 11 ♂♂, L. Mandát, 350 m (123), 14.v.–4.vi.2008, 1 ♂, MT, CJM. Vlára, 285 m (236), 14.vii.2006, 6 ♂♂, L.

Distribution and frequency in the Bílé Karpaty PLA: Probably restricted to the lowermost stretches of large streams (Velička and Vlára). **Red List status:** –.

Comments. In the Czech Republic, this species is known only from eastern Moravia (KOMZÁK & CHVOJKA 2005).

***Hydroptila occulta* (Eaton, 1873) (CR)**

Published record. CHVOJKA *et al.* (2009): Velička, 325–350 m (95).

Distribution and frequency in the Bílé Karpaty PLA: Known from a single record from the Velička stream. **Red List status:** CR.

Comments. A very rare species in the Czech Republic, ascertained in Moravia only recently (CHVOJKA *et al.* 2009).

***Hydroptila sparsa* Curtis, 1834**

Material examined. Luhačovický potok, 285 m (33), 9.x.2010, 8 ♂♂. Velička, 325–350 m (95), 2.viii.2004, 1 ♂, L. Velička, 205 m (103), 27.vii.2005, 13 ♂♂, L; 15.ix.2009, 138 ♂♂, L. Járkovec, 320–365 m (113), 21.viii.–18.ix.2006, 1 ♂, MT, CJM. Brumovka, 340–355 m (196), 1.viii.2004, 1 ♂, L.

Distribution and frequency in the Bílé Karpaty PLA: Recorded from several streams at lower altitudes. **Red List status:** –.

***Hydroptila vectis* Curtis, 1834 (VU)**

Material examined. Luhačovický potok, 285 m (33), 9.x.2010, 5 ♂♂ 2 ♀♀. Velička, 530–540 m (65), 4.vii.2005, 1 ♀. Hrubý potok, 340–370 m (101), 25.vii.2005, 5 ♂♂; 26.vii.2005, 1 ♂ 1 ♀, L. Kuželovský potok, 204–212 m (106), 7.x.2009, 1 ♂. Velička, 205 m (103), 27.vii.2005, 3 ♂♂, L; 15.ix.2009, 24 ♂♂ 10 ♀♀, L. Rokytenka, 390 m (165), 14.vii.2009, 2 ♀♀. Brumovka, 340–355 m (196), 1.viii.2004, 1 ♂ 1 ♀, L. LT Brumovka, spring areas, 430–460 m (197), 23.viii.–20.ix.2006, 1 ♀, MT, CJM. Bukový potok, 330 m (235), 26.x.2006, 1 ♂; 15.vii.2009, 28 ♂♂ 3 ♀♀. Vlára, 285 m (236), 3.x.2005, 1 ♂ pupa; 14.vii.2006, 13 ♀♀, L. Drietomice, 360–390 m (258), 14.x.2007, 1 ♂. Klanečnice, 345–350 m (324), 6.x.2009, 4 ♂♂ 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Although it generally occurs only locally in the Czech Republic, it is relatively frequent in running waters in the colline and submontane zones of the Bílé Karpaty PLA. **Red List status:** VU.

***Hydroptila vichtaspa* Schmid, 1959 (CR)**

Published record. CHVOJKA & KOMZÁK (2008): Kazivec, 460–485 m (87).

Additional material examined. Kazivec, 460–485 m (87), 29.vii.2009, 2 ♂♂ 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Known only from the middle stretch of the Kazivec brook. **Red List status:** CR.

Comments. A species with a largely Ponto-Mediterranean distribution. The site in the Bílé Karpaty PLA represents the only known locality in central Europe.

***Ithytrichia lamellaris* Eaton, 1873**

Material examined. Velička, 205 m (103), 15.ix.2009, 1 ♀, L.

Distribution and frequency in the Bílé Karpaty PLA: Only a single specimen was found in the lowermost stretch of the Velička stream. **Red List status:** –.

Family PHILOPOTAMIDAE

Philopotamus montanus (Donovan, 1813)

Material examined. Velička, 700–750 m (59), 3.viii.2004, 4 ♂♂; 22.v.2005, 20 ♂♂ 2 ♀♀; 4.vii.2005, 1 ♂. LT Velička, 550–560 m (63), 3.viii.2004, 1 ♂; 22.v.2005, 3 ♂♂ 3 ♀♀; 28.vi.2005, 2 ♂♂; 4.vii.2005, 1 ♀. LT Velička, spring area, 570–620 m (64), 19.v.–7.vi.2005, 2 ♂♂, MT, CJM; 4.vi.2009, 1 ♂ 1 ♀. Velička, 530–540 m (65), 3.viii.2004, 3 ♂♂; 22.v.2005, 4 ♂♂ 3 ♀♀; 7.vi.2005, 3 ♂♂. Velička, 470–480 m (68), 3.viii.2004, 1 ♂; 22.v.2004, 2 ♂♂; 7.vi.2005, 3 ♂♂; 28.vi.2005, 1 ♂; 4.vii.2005, 3 ♂♂. LT Kamenný potok, 620–650 m (69), 29.vi.2005, 4 ♂♂ 1 ♀; 4.vi.2009, 4 ♂♂. LT Velička, right branch, 600 m (75), 23.vi.2009, 1 ♂. LT Velička, right branch, 550 m (76), 5.vi.2009, 5 ♂♂ 1 ♀. LT Velička, left branch, 600 m (78), 5.vi.2009, 8 ♂♂ 5 ♀♀. Hrubý potok, 455 m (97), 14.vi.2010, 1 ♂. Myjava, 580–650 m (130), 14.vi.2010, 6 ♂♂. Vlárka, 580–600 m (238), 17.vi.2010, 1 ♂. Hrnčářův potok, 470–485 m (268), 31.v.2008, 1 ♂ 1 ♀. Predpolomský potok, 480 m (282), 20.vi.2007, 2 ♂♂. Hrubár, 650–670 m (286), 15.vi.2006, 2 ♂♂ 1 ♀, J. Bojková lgt. Hrubár, 560–570 m (289), 29.iv.2000, 1 ♂ 1 ♀, M. Horsák lgt. Soliskový potok, 580–590 m (292), 9.v.2008, 22 ♂♂ 1 ♀; 1.vi.2008, 19 ♂♂ 6 ♀♀; 25.vi.2008, 9 ♂♂ 1 ♀; 28.vi.2008, 15 ♂♂; 10.viii.2008, 11 ♂♂; 22.v.2010, 8 ♂♂ 2 ♀♀; 26.vi.2010, 3 ♂♂ 1 ♀. Zlatný potok, 550–590 m (299), 12.vii.2007, 1 ♂; 9.v.2008, 2 ♂♂. Zlatný potok, 430–450 m (304), 12.vii.2007, 3 ♂♂; 9.v.2008, 15 ♂♂ 1 ♀; 1.vi.2008, 13 ♂♂ 3 ♀♀; 11.viii.2008, 4 ♂♂ 1 ♀. Svinárský potok, 560–590 m (314), 28.iv.2005, 2 ♂♂; 7.vii.2005, 5 ♂♂ 3 ♀♀; 28.iv.–26.x.2005, 66 ♂♂ 10 ♀♀, MT, CJM. RT Svinárský potok, 700 m (316), 7.vi.2005, 6 ♂♂ 3 ♀♀; 29.vi.2005, 1 ♂; 4.vi.2009, 11 ♂♂ 1 ♀. Svinárský potok, 460 m (318), 7.vii.2005, 6 ♂♂ 1 ♀. RT Svinárský potok, 425 m (319), 7.vii.2005, 1 ♂. Svinárský potok, 390–420 m (320), 26.vii.2005, 1 ♂.

Distribution and frequency in the Bílé Karpaty PLA: Common in montane and submontane brooks, abundant mainly in the southern part of the area. **Red List status:** –.

Philopotamus variegatus (Scopoli, 1763)

Material examined. Olšava, 350–380 m (8), 19.vi.2007, 1 ♂. Velička, 700–750 m (59), 4.vii.2005, 2 ♀♀. LT Velička, 550–560 m (63), 28.vi.2005, 1 ♂; 4.vii.2005, 2 ♂♂. Velička, 530–540 m (65), 3.viii.2004, 2 ♂♂ 1 ♀; 28.vi.2005, 10 ♂♂ 2 ♀♀; 4.vii.2005, 1 ♂. Velička, 470–480 m (68), 3.viii.2004, 1 ♂ 1 ♀; 28.vi.2005, 10 ♂♂ 2 ♀♀; 4.vii.2005, 3 ♂♂ 2 ♀♀. LT Kamenný potok, 620–650 m (69), 29.vi.2005, 3 ♂♂ 1 ♀. LT Velička, 355–360 m (94), 3.vi.2009, 1 ♀; 5.–24.viii.2009, 1 ♀, MT, CJM. Hrubý potok, 340–370 m (101), 26.vii.2005, 1 ♀, L. Járkovec, 320–365 m (113), 29.v.–20.vi.2006, 1 ♂, MT, CJM; 11.vii.2006, 1 ♂ 2 ♀♀. Rybnický potok, 410–445 m (135), 18.vi.–9.vii.2007, 1 ♀, MT, CJM. LT Brumovka, 500 m (187), 22.vi.2006, 2 ♂♂. LT Brumovka, spring areas and brooklets, 530–570 m (189), 17.vi.2006, 1 ♂. LT Brumovka, 400–430 m (198), 17.vi.2006, 2 ♀♀; 13.vii.2006, 1 ♀, L. RT Bylnička, 450 m (220), 13.vii.2009, 2 ♂♂. Bukový potok, spring area, 600 m (226), 4.vii.–11.viii.2010, 1 ♀, MT, CM. Vlára, 285 m (236), 14.vii.2006, 1 ♀, L. RT Vlárka, 430–470 m (243), 17.vi.2010, 1 ♂. Drietomice, 360–390 m (258), 4.vi.2007, 4 ♂♂; 24.vi.2007, 2 ♂♂. Krátkovský potok, 420 m (267), 4.vi.2007, 1 ♂ 1 ♀. LT Predpolomský potok, 480 m (284), 20.vi.2007, 1 ♂. Hrubár, 560–570 m (289), 20.vi.2007, 1 ♂; 25.vi.2008, 1 ♂. Soliskový potok, 580–590 m (292), 1.vi.2008, 1 ♀; 28.vi.2008, 2 ♀♀. Zlatný potok, 550–590 m (299), 1.vi.2008, 1 ♂. Zlatný potok, 430–450 m (304), 1.vi.2008, 1 ♂. RT Hrubár, 380–450 m (306), 28.vi.2008, 1 ♀. Svinárský potok, 670 m (313), 29.vi.2005, 1 ♀. Svinárský potok, 560–590 m (314), 7.vi.–27.vii.2005, 1 ♂ 1 ♀, MT, CJM. Svinárský potok, 460 m (318), 7.vii.2005, 1 ♂.

Distribution and frequency in the Bílé Karpaty PLA: Quite frequent in submontane and montane brooks throughout the area. **Red List status:** –.

***Wormaldia occipitalis* (Pictet, 1834)**

Published records. KŘOUPALOVÁ *et al.* (2011): LT Brumovka, spring areas, 430–460 m (197).

Additional material examined. LT Olšava, spring areas and brooklets, 540–570 m (2), 27.ix.2009, 3 ♂♂ 1 ♀. Vlčí potok, 440–450 m (4), 27.ix.2009, 2 ♂♂. Suchý potok, 400–430 m (7), 7.vii.2010, 3 ♂♂ 2 ♀♀. LT Koménka, spring brook, 500 m (15), 31.vii.2010, 1 ♂. LT Luhačovický potok, brook and spring area, 430 m (28), 24.vi.2008, 1 ♂. LT Petrůvka, spring areas, 400 m (30), 23.vi.2008, 1 ♂. LT Petrůvka, 410 m (31), 23.vi.2008, 9 ♂♂ 2 ♀♀; 16.vii.2008, 2 ♂♂. Gáborka, spring areas, 390–420 m (34), 30.vii.2007, 2 ♀♀, J. Ježek lgt.; 27.vi.2010, 6 ♂♂ 2 ♀♀. Gáborka, 280 m (35), 9.x.2010, 1 ♂. Nivnička, spring area, 580 m (37), 26.vi.2010, 2 ♂♂; 31.vii.2010, 6 ♂♂ 1 ♀; 9.x.2010, 4 ♂♂. Pivný potok, spring brooks, 550–560 m (39), 26.vi.2010, 1 ♂; 31.vii.2010, 8 ♂♂ 8 ♀♀. Pivný potok, 470 m (40), 26.vi.2010, 1 ♂; 31.vii.2010, 6 ♂♂. RT Okluky, brooklets, 530–540 m (48), 29.vii.2009, 7 ♂♂ 1 ♀; 28.ix.2009, 1 ♀. RT Okluky, 540 m (49), 29.vii.2009, 1 ♂ 2 ♀♀. RT Okluky, spring area, 525 m (50), 29.vii.2009, 3 ♂♂. Velička, spring area, upper section, 850–900 m (58), 27.x.2005, 2 ♂♂ 1 ♀. Velička, 700–750 m (59), 3.viii.2004, 1 ♂ 1 ♀; 28.vii.2005, 2 ♂♂; 27.x.2005, 2 ♂♂ 2 ♀♀. RT Velička, spring area, 600 m (60), 3.viii.2004, 4 ♂♂; 7.vi.2005, 3 ♂♂; 28.vii.2005, 1 ♂. LT Velička, spring areas, brooklets, 720–760 m (61), 4.vii.2005, 1 ♂; 23.vi.2009, 1 ♂; 17.ix.2009, 2 ♂♂. LT Velička, 550–560 m (63), 28.vi.2005, 1 ♂ 2 ♀♀. LT Velička, spring area, 570–620 m (64), 3.viii.2004, 38 ♂♂ 9 ♀♀; 7.vi.2005, 22 ♂♂ 4 ♀♀; 28.vi.2005, 27 ♂♂ 6 ♀♀; 4.vii.2005, 25 ♂♂ 4 ♀♀; 28.vii.2005, 7 ♂♂ 1 ♀; 7.vi.–27.x.2005, 278 ♂♂ 69 ♀♀, MT, CJM; 27.x.2005, 1 ♂ 1 ♀; 4.vi.2009, 14 ♂♂ 1 ♀. Velička, 530–540 m (65), 22.ix.2005, 2 ♂♂ 1 ♀, J. Ježek lgt. LT Velička, spring area, 670 m (66), 23.vi.2009, 3 ♂♂. RT Velička, spring area, 500 m (67), 28.vi.2005, 15 ♂♂ 4 ♀♀. Velička, 470–480 m (68), 4.vii.2005, 1 ♂; 22.ix.2005, 2 ♂♂ 1 ♀, J. Ježek lgt.; 27.x.2005, 1 ♀. LT Kamenný potok, 620–650 m (69), 26.x.2005, 1 ♀. RT Kamenný potok, spring area, 560 m (71), 2.viii.2004, 43 ♂♂ 13 ♀♀. LT Velička, right branch, 600 m (75), 23.vi.2009, 1 ♂ 1 ♀. LT Velička, left branch, 600 m (78), 16.ix.2009, 5 ♂♂ 2 ♀♀. LT Velička, spring area, 600 m (79), 5.vi.2009, 4 ♂♂ 2 ♀♀. LT Velička, brooklet and spring area, 520–540 m (80), 5.vi.2009, 2 ♂♂; 23.vi.2009, 6 ♂♂ 3 ♀♀. LT Kazivec, 400 m (89), 2.viii.2004, 1 ♂ 1 ♀. LT Velička, left branch, 500 m (92), 2.vi.2009, 1 ♂ 2 ♀♀; 25.vi.2009, 10 ♂♂ 5 ♀♀; 15.ix.2009, 3 ♂♂ 1 ♀. LT Velička, brooklets, 400 m (93), 2.vi.2009, 1 ♂; 25.vi.2009, 17 ♂♂ 4 ♀♀; 15.ix.2009, 1 ♂ 1 ♀. LT Velička, 355–360 m (94), 25.vi.–15.vii.2009, 2 ♀♀, MT, CJM. LT Hrubý potok, 550 m (98), 25.vii.2005, 4 ♂♂ 1 ♀; 21.vi.2007, 4 ♂♂ 1 ♀; 30.x.2007, 1 ♀. LT Járkovec, spring area, 450–470 m (112), 6.vii.2005, 8 ♂♂ 2 ♀♀; 20.vi.2006, 2 ♂♂ 1 ♀; 11.vii.2006, 6 ♂♂. LT Radějovka, spring area and brook, 380 m (115), 26.vi.2008, 1 ♀. Myjava, 580–650 m (130), 14.vi.2010, 10 ♂♂. LT Myjava, 630 m (131), 14.vi.2010, 7 ♂♂. RT Rybnický potok, 510 m (132), 5.vii.2005, 2 ♂♂. LT Rybnický potok, spring area, 440 m (134), 27.vi.2005, 9 ♂♂ 1 ♀. Rybnický potok, 410–445 m (135), 5.vii.2005, 1 ♂ 1 ♀. RT Sviborka, 390–425 m (142), 24.vi.2008, 1 ♂. Křekovský potok, springs, 580 m (147), 17.vii.2009, 4 ♂♂ 1 ♀; 24.x.2010, 2 ♂♂. Křekovský potok, 440–500 m (148), 17.vii.2009, 2 ♂♂ 1 ♀. LT Křekovský potok, spring area, 570 m (149), 17.vii.2009, 1 ♂ 2 ♀♀. RT Rokytenka, right branch, 500 m (168), 14.vii.2009, 1 ♂. RT Zelenský potok, spring areas, 530–600 m (175), 16.vii.2009, 2 ♂♂ 1 ♀. Vápenický potok, 600–650 m (179), 16.vii.2009, 1 ♂. LT Rakové, spring areas and brooklets, 600–670 m (184), 23.vii.2005, 15 ♂♂ 6 ♀♀; 17.vi.2006, 4 ♂♂; 22.vi.2006, 5 ♂♂ 3 ♀♀; 13.vii.2006, 11 ♂♂ 2 ♀♀; 23.viii.2006, 7 ♂♂ 1 ♀; 16.x.2006, 5 ♂♂ 3 ♀♀; 27.x.2006, 3 ♂♂ 3 ♀♀; 20.ix.–27.x.2006, 1 ♂, MT, CJM. LT Brumovka, spring areas and brooklets, 530–570 m (189), 17.vi.2006, 1 ♂; 13.vii.2006, 8 ♂♂ 2 ♀♀; 23.viii.2006, 4 ♂♂ 1 ♀; 18.ix.2006, 13 ♂♂ 2 ♀♀. Dešňanský potok, spring area, brooklet, 530–570 m (194), 17.vi.2006, 3 ♂♂ 2 ♀♀; 13.vii.2006, 1 ♂ 1 ♀; 18.ix.2006, 1 ♂ 2 ♀♀; 1.vii.2010, 1 ♂, J. Bojková lgt. LT Brumovka, spring areas, 430–460 m (197), 23.vi.2006, 1 ♂ 1 ♀; 13.–16.viii.2007, 1 ♀, YPT, J. Ježek lgt.; 29.iv.–23.viii.2006, 1 ♂ 1 ♀, MT, BO; 23.v.–21.x.2007, 4 ♂♂ 3 ♀♀, MT, BO. LT Brumovka, 400–430 m (198), 31.vii.2004, 1 ♂; 13.vii.2006, 2 ♂♂, L. RT Nedašovka, spring area, 590–605 m (199), 1.viii.2004, 2 ♂♂; 29.x.2005, 1 ♂; 13.vii.2006, 5 ♂♂ 2 ♀♀. RT Nedašovka, spring area, 550 m (200), 1.viii.2004, 1 ♂. Nedašovka, 450–470 m (202), 1.viii.2004, 1 ♂. LT Nedašovka, 580–610 m (203), 18.vi.2010, 6 ♂♂ 1 ♀. LT Nedašovka, 600–610 m (205), 1.viii.2004, 14 ♂♂ 2 ♀♀; 14.vii.2006, 2 ♂♂ 1 ♀. LT Nedašovka, 490–570 m (206), 1.viii.2004, 2 ♂♂ 2 ♀♀. LT Nedašovka, brook and springs, 520 m (208), 14.vii.2006, 2 ♂♂. LT Bylnička, spring area, 600 m (215), 13.vii.2009, 4 ♂♂. LT Bylnička, 450–550 m (218), 13.vii.2009, 1 ♂ 2 ♀♀. Hlubočský potok, 500–580 m (223), 24.vii.2005, 1 ♂. Bukový potok, spring area, 600 m (226), 24.v.–23.x.2010, 31 ♂♂ 19 ♀♀, MT, CM; 16.vi.2010, 1 ♂. LT Bukový potok, spring areas, 560 m (227), 4.vii.2010, 4 ♂♂ 3 ♀♀. RT Bukový potok, spring area, 430 m (229), 15.vii.2009, 4 ♂♂ 1 ♀. LT Bukový potok, spring area, 450–480 m (233), 15.vii.2009, 12 ♂♂ 3 ♀♀. RT Vlára,

Caddis flies (Trichoptera)

350 m (237), 12.vii.2006, 1 ♂ 2 ♀♀. Vlárka, 580–600 m (238), 17.vi.2010, 1 ♂. RT Vlárka, spring area, 530–550 m (241), 17.vi.2010, 5 ♂♂ 5 ♀♀; 5.vii.2010, 5 ♂♂ 4 ♀♀. RT Vlárka, spring areas and brooks, 540–560 m (242), 5.vii.2010, 3 ♂♂ 1 ♀. RT Vlárka, 430–470 m (243), 24.vii.2005, 1 ♂ 1 ♀; 17.vi.2010, 2 ♂♂; 5.vii.2010, 7 ♂♂; 5.vii.–23.x.2010, 4 ♂♂ 5 ♀♀, MT, CM. RT Vlárka, spring areas, 460–550 m (244), 5.vii.2010, 2 ♂♂ 1 ♀. Drietomice, spring area, 590–620 m (247), 8.vii.2010, 5 ♂♂ 2 ♀♀. LT Drietomice, spring areas and brooks, 550–600 m (251), 4.vi.2007, 8 ♂♂ 3 ♀♀; 24.vi.2007, 8 ♂♂ 1 ♀; 13.vii.2007, 4 ♂♂ 1 ♀; 5.viii.2007, 4 ♂♂ 3 ♀♀. LT Drietomice, 500–550 m (252), 13.vii.2007, 4 ♂♂ 7 ♀♀. LT Drietomice, 440 m (253), 8.vii.2010, 1 ♂. LT Drietomice, spring area, 540 m (254), 28.vi.–12.viii.2007, 3 ♂♂, MT, BO. RT Krátkovský potok, 510 m (260), 27.vi.2008, 1 ♂. Krátkovský potok, 450–485 m (261), 18.vi.2007, 1 ♂. RT Trstná, spring brook, 480–490 m (263), 27.vi.2008, 1 ♂. Trstná, 450–480 m (264), 18.vi.2007, 1 ♂; 27.vi.2008, 1 ♂ 1 ♀; 18.x.2008, 2 ♂♂. LT Trstná, 470 m (265), 27.vi.2008, 3 ♂♂ 2 ♀♀; 18.x.2008, 1 ♂ 3 ♀♀. RT Trstná, spring area, 450–460 m (266), 18.vi.2007, 1 ♀; 27.vi.2008, 4 ♂♂; 18.x.2008, 1 ♂ 3 ♀♀. Hrnčarův potok, 470–485 m (268), 31.v.2008, 2 ♂♂; 27.vi.2008, 3 ♂♂ 2 ♀♀; 10.viii.2008, 2 ♂♂ 2 ♀♀. LT Hrnčarův potok, spring area and brooklet, 490 m (269), 31.v.2008, 2 ♂♂ 1 ♀; 18.x.2008, 2 ♂♂. LT Vlčí potok, spring area, 580 m (271), 7.vii.2010, 3 ♂♂. LT Žitkovský potok, spring areas, 460–520 m (275), 29.v.–19.vi.2007, 2 ♂♂, MT, CJM. Žitkovský potok, 440–450 m (276), 31.vii.2007, 1 ♂, J. Ježek lgt. RT Rudický potok, spring area, 640 m (277), 7.vii.2010, 4 ♂♂ 2 ♀♀. Predpolomský potok, 480 m (282), 20.vi.2007, 1 ♂ 1 ♀. LT Predpolomský potok, spring area and brooklet, 630–650 m (283), 4.vi.2007, 15 ♂♂ 3 ♀♀; 24.vi.2007, 10 ♂♂ 6 ♀♀; 5.viii.2007, 5 ♂♂ 1 ♀. RT Predpolomský potok, spring area and brook, 750 m (285), 25.vi.2008, 1 ♂. Hrubár, 650–670 m (286), 18.vi.2006, 1 ♂, J. Bojková lgt. LT Hrubár, spring area, 650–660 m (287), 23.v.–22.ix.2006, 23 ♂♂ 18 ♀♀, MT, BO; 3.vi.–22.x.2007, 5 ♂♂ 4 ♀♀, MT, BO; 25.vi.2008, 4 ♂♂ 1 ♀. RT Hrubár, spring area, 640–650 m (288), 18.vi.2007, 15 ♂♂; 25.vi.2008, 3 ♂♂ 2 ♀♀. LT Hrubár, spring brook, 655–660 m (290), 1.vi.2008, 1 ♀; 28.vi.2008, 3 ♂♂ 3 ♀♀; 10.viii.2008, 3 ♂♂. Soliskový potok, 680–780 m (291), 28.vi.2008, 16 ♂♂ 5 ♀♀; 19.x.2008, 7 ♂♂. Soliskový potok, 580–590 m (292), 28.vi.2008, 1 ♂; 10.viii.2008, 1 ♂; 19.x.2008, 3 ♂♂ 1 ♀. LT Soliskový potok, spring area, 590 m (293), 1.vi.2008, 1 ♂; 28.vi.2008, 8 ♂♂ 2 ♀♀; 10.viii.2008, 7 ♂♂ 2 ♀♀. RT Hrubár, spring area, 520 m (294), 12.viii.–12.ix.2007, 1 ♂ 1 ♀, MT, BO. RT Hrubár, 480–500 m (298), 9.vii.2010, 4 ♂♂ 1 ♀. Zlatný potok, 550–590 m (299), 12.vii.2007, 2 ♂♂ 2 ♀♀; 1.vi.2008, 12 ♂♂ 4 ♀♀; 11.viii.2008, 14 ♂♂ 6 ♀♀; 19.x.2008, 9 ♂♂ 1 ♀. RT Zlatný potok, spring area, 630 m (300), 1.vi.2008, 3 ♂♂ 1 ♀. LT Zlatný potok, 590–600 m (301), 12.vii.2007, 1 ♂ 1 ♀; 11.viii.2008, 3 ♂♂; 19.x.2008, 4 ♂♂ 1 ♀. LT Zlatný potok, spring area, 470 m (303), 12.vii.2007, 4 ♂♂. Zlatný potok, 430–450 m (304), 11.viii.2008, 1 ♂. RT Hrubár, 380–450 m (306), 28.vi.2008, 1 ♂. LT Klanečnice, spring brook, 580–600 m (307), 3.vi.2007, 1 ♂; 23.vi.2007, 3 ♂♂ 1 ♀. Klanečnice, 450 m (308), 26.vii.2005, 1 ♂. LT Klanečnice, spring areas, 440–490 m (309), 2.vi.2007, 5 ♂♂ 1 ♀; 22.vi.2007, 13 ♂♂ 3 ♀♀; 4.viii.2007, 3 ♂♂. RT Klanečnice, spring section, 650 m (311), 2.vi.2007, 1 ♂; 23.vi.2007, 2 ♂♂ 1 ♀; 4.viii.2007, 1 ♂. Svinárský potok, 670 m (313), 29.vi.2005, 5 ♂♂; 26.x.2005, 11 ♂♂ 2 ♀♀; 4.vi.2009, 1 ♂. Svinárský potok, 560–590 m (314), 7.vii.2005, 14 ♂♂; 7.vi.–26.x.2005, 24 ♂♂ 15 ♀♀, MT, CJM; 28.x.2005, 7 ♂♂. LT Svinárský potok, 580 m (315), 7.vii.2005, 22 ♂♂ 3 ♀♀. RT Svinárský potok, 700 m (316), 26.x.2005, 4 ♂♂ 1 ♀; 28.x.2005, 3 ♂♂. LT Svinárský potok, spring area, 630 m (317), 29.vi.2005, 14 ♂♂ 4 ♀♀. Svinárský potok, 390–420 m (320), 26.vii.2005, 2 ♂♂. RT Svinárský potok, spring area, 400 m (321), 26.vii.2005, 12 ♂♂ 5 ♀♀. LT Klanečnice, brook and spring area, 440–480 m (325), 15.vi.2010, 2 ♂♂.

Distribution and frequency in the Bílé Karpaty PLA: Very common and abundant in springs and brooklets throughout the area. **Red List status:** –.

Family POLYCENTROPODIDAE

Cyrnus trimaculatus (Curtis, 1834)

Material examined. Kolečač, 335 m (10), 1.viii.2010, 2 ♂♂. Kolečač, 295 m (13), 26.vi.2010, 1 ♂. Lom Rasová NM (14), 31.v.2008, 1 ♂ 2 ♀♀. L. Pond S Komňa (17), 22.v.2010, 18 ♂♂. Pond S Bojkovice (18), 31.vii.2010, 3 ♂♂ 1 ♀. Koménka, 275 m (19), 4.v.2009, 2 larvae. Kladenka, 265 m (24), 15.vii.2009, 13 ♂♂ 2 ♀♀. Kladenka, 245 m (26), 5.x.2009, 52 larvae. Petrůvka, 300 m (32), 1.viii.2010, 3 ♂♂. LT Luhačovický potok, 330 m (36), 27.vi.2009, 4 ♀♀, L. Lubná reservoir (43), 10.vii.2007, 3 ♂♂. Lubná, 270–300 m (44), 23.vi.2007, 3 ♂♂; 10.vii.2007, 1 ♂. LT Velička, 435 m (82), 5.–24.viii.2009, 1 ♂, MT, CJM. Velička, 400–420

m (83), 12.vi.1999, 1 ♂; 26.vii.2005, 1 ♂. Velička, 325–350 m (95), 2.viii.2004, 4 ♀♀, L; 4.vii.2005, 1 ♂. Hrubý potok, 400–415 m (99), 25.vii.2005, 1 ♂. Velička, 205 m (103), 27.vii.2005, 1 ♂ 1 ♀, L. Kuželovský potok, 204–212 m (106), 7.x.2009, 2 larvae. Járkovec, 320–365 m (113), 10.–29.v.2006, 1 ♂, MT, CJM. Radějovka, 270 m (117), 14.vii.2008, 3 ♂♂ 1 ♀. Radějovka, 175 m (119), 9.x.2008, 4 larvae. Pond, Kútky (122), 26.vi.2008, 4 ♂♂ 2 ♀♀; 15.vii.2008, 5 ♂♂ 1 ♀. Mandát, 350 m (123), 22.iv.–26.viii.2008, 137 ♂♂ 9 ♀♀, MT, CJM; 26.vi.2008, 1 ♂. Mandát, 265 m (125), 19.vi.2006, 2 ♂♂; 27.vi.2008, 3 ♂♂. Sudoměřický potok, 220 m (127), 27.vii.2005, 2 ♂♂ 1 ♀; 12.vii.2006, 6 ♂♂ 2 ♀♀; 27.vi.2008, 14 ♂♂ 5 ♀♀. Sudoměřický potok, 210 m (128), 27.vi.2008, 3 ♂♂. Sudoměřický potok, 190 m (129), 27.vii.2005, 10 ♂♂ 1 ♀; 27.vi.2008, 3 ♂♂ 1 ♀. Rybnický potok, 380–400 m (136), 14.vi.–7.ix.2010, 14 ♂♂ 1 ♀, MT, CM. Teplička, 345 m (137), 2.v.2007, 8 larvae. Vlára, 345 m (146), 31.vii.2004, 1 ♂. Pond N Slavičín (160), 23.v.2010, 4 ♂♂. Hajnice pond (171), 14.vii.2009, 1 ♂. Rokytenka, 330 m (172), 14.vii.2009, 2 ♂♂. Reservoir E Žitková (280), 11.vii.2007, 21 ♂♂. Žitkovský potok, 360–380 m (281), 5.v.2009, 2 larvae. Hrubár, 365–370 m (305), 12.vii.2007, 1 ♂; 28.vi.2008, 1 ♂; 11.viii.2008, 1 ♀. Klanečnice, 450 m (308), 2.vi.2007, 1 ♂. Klanečnice, 345–350 m (324), 15.vi.2010, 1 ♂.

Distribution and frequency in the Bílé Karpaty PLA: Abundant both in standing and running waters with stony bottom in the colline and submontane zones. **Red List status:** –.

***Holocentropus stagnalis* (Albarda, 1874)**

(VU)

Material examined. Lom Rasová NM (14), 21.v.2006, 4 ♂♂ 3 ♀♀; 8.v.2008, 10 ♂♂ 4 ♀♀.

Distribution and frequency in the Bílé Karpaty PLA: A single population was found in a pool in an abandoned quarry. **Red List status:** VU.

Comments. This species occurs quite rarely in standing waters overgrown by macrophytes in the Czech Republic.

***Neureclipsis bimaculata* (Linnaeus, 1758)**

Material examined. Velička, 205 m (103), 27.vii.2005, 1 ♂, L. Sudoměřický potok, 220 m (127), 12.vii.2006, 1 ♀; 27.vi.2008, 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Only sporadically found in the lowermost localities. **Red List status:** –.

Comments. A generally common species of lowland streams and rivers in the Czech Republic.

***Plectrocnemia brevis* McLachlan, 1871**

Published records. KŘOUPALOVÁ *et al.* (2011): LT Brumovka, spring areas, 430–460 m (197).

Additional material examined. LT Luhačovický potok, 330 m (36), 27.vi.2009, 1 ♀, L. Pivný potok, spring brooks, 550–560 m (39), 26.vi.2010, 1 ♂; 31.vii.2010, 1 ♂. LT Velička, spring area, 570–620 m (64), 3.viii.2004, 1 ♂; 19.v.–9.viii.2005, 9 ♂♂ 2 ♀♀, MT, CJM; 7.vi.2005, 1 ♂. Velička, 530–540 m (65), 28.vi.2005, 1 ♂. Velička, 470–480 m (68), 28.vii.2005, 1 ♂. LT Velička, right branch, 600 m (75), 5.vi.2009, 1 ♀. LT Velička, right branch, 550 m (76), 5.vi.2009, 1 ♀. Hrubý potok, 455 m (97), 14.vi.2010, 1 ♀. LT Járkovec, spring area, 450–470 m (112), 11.vii.2006, 1 ♂ 1 ♀. LT Rybnický potok, spring area, 440 m (134), 6.vi.2005, 1 ♂. Rybnický potok, 410–445 m (135), 2.viii.2007, 1 ♀, J. Ježek lgt. LT Rakové, spring areas and brooklets, 600–670 m (184), 23.vii.2005, 2 ♀♀ 1 ♀ pupa; 17.vi.2006, 4 ♂♂; 6.vi.–13.vii.2006, 4 ♀♀, MT, CJM;

Caddis flies (Trichoptera)

22.vi.2006, 2 ♂♂ 1 ♀; 13.vii.2006, 1 ♂ 3 ♀♀. LT Brumovka, spring areas and brooklets, 530–570 m (189), 17.vi.2006, 3 ♂♂ 2 ♀♀; 23.viii.2006, 1 ♂. Dešňanský potok, spring area, brooklet, 530–570 m (194), 14.vii.2006, 1 ♀. LT Brumovka, spring areas, 430–460 m (197), 19.vii.–23.viii.2006, 1 ♂, MT, BO; 13.–16.viii.2007, 1 ♀, YPT, J. Ježek lgt. LT Brumovka, 400–430 m (198), 17.vi.2006, 1 ♂; 13.vii.2006, 2 ♂♂, L. Bukový potok, spring area, 600 m (226), 16.vi.–8.ix.2010, 6 ♂♂ 2 ♀♀, MT, CM. RT Vlárka, spring areas, 460–550 m (244), 22.vi.2008, 1 ♂, L. O. Konvička lgt. LT Drietomice, 620–650 m (249), 20.vi.2007, 1 ♀; 8.vii.2010, 1 ♂. LT Drietomice, spring areas and brooks, 550–600 m (251), 4.vi.2007, 1 ♀; 24.vi.2007, 3 ♂♂ 4 ♀♀; 13.vii.2007, 1 ♂; 5.viii.2007, 3 ♂♂ 1 ♀. LT Drietomice, 500–550 m (252), 13.vii.2007, 1 ♀. LT Drietomice, spring area, 540 m (254), 28.vi.–30.ix.2007, 3 ♂♂ 4 ♀♀, MT, BO. RT Krátkovský potok, spring brook, 585 m (259), 31.v.2008, 4 ♂♂. Trstná, 450–480 m (264), 27.vi.2008, 1 ♂. Hrnčářův potok, 470–485 m (268), 10.viii.2008, 1 ♂. LT Predpolomský potok, spring area and brooklet, 630–650 m (283), 4.vi.2007, 1 ♂ 1 ♀; 24.vi.2007, 1 ♂. LT Hrubár, spring area, 650–660 m (287), 3.vi.–12.viii.2007, 2 ♂♂ 2 ♀♀, MT, BO. RT Hrubár, spring area, 640–650 m (288), 23.v.–22.ix.2006, 10 ♂♂ 16 ♀♀, MT, BO; 25.vi.2008, 1 ♀. Soliskový potok, 680–780 m (291), 28.vi.2008, 1 ♂. LT Hrubár, spring brook, 705 m (296), 28.vi.2008, 1 ♂. LT Klanečnice, spring brook, 580–600 m (307), 3.vi.2007, 1 ♀; 23.vi.2007, 2 ♂♂ 2 ♀♀. Svinárský potok, 560–590 m (314), 7.–29.vi.2005, 1 ♂, MT, CJM. LT Svinárský potok, 580 m (315), 7.vii.2005, 1 ♂. RT Svinárský potok, 700 m (316), 4.vi.2009, 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Common in springs and brooks in the montane and submontane zones. **Red List status:** –.

Comments. This species is considered to be relatively rare in Bohemia; in eastern Moravia, however, it is more frequent.

Plectrocnemia conspersa (Curtis, 1834)

Published records. KROUPALOVÁ *et al.* (2011): LT Brumovka, spring areas, 430–460 m (197).

Additional material examined. Vlčí potok, 440–450 m (4), 31.v.2009, 2 ♀♀ pupae. Olšava, 350–380 m (8), 31.v.2009, 1 ♂ pupa. Kolelač, 335 m (10), 23.v.2010, 1 ♂. Kolelač, 295 m (13), 26.vi.2010, 1 ♀ pupa. Koménka, 375 m (16), 26.vi.2010, 1 ♀ pupa. Kladenka, 390 m (22), 16.vii.–25.viii.2008, 2 ♀♀, MT, CJM. Třešňůvka, 310 m (23), 26.vi.2010, 1 ♂ pupa. Rudický potok, 250 m (25), 15.vii.2009, 1 ♀ pupa. LT Luhačovičský potok, 330 m (29), 27.vi.2010, 1 ♀. Petrůvka, 300 m (32), 27.vi.2010, 1 ♂ 1 ♀ pupa. Gáborka, 280 m (35), 27.vi.2010, 1 ♂. Nivnička, spring area, 580 m (37), 22.v.2010, 1 ♂ pupa. Pivný potok, 470 m (40), 22.v.2010, 2 ♂♂ pupae 1 ♀ pupa. Pivný potok, 390 m (41), 26.vi.2010, 1 ♀; 31.vii.2010, 1 ♂ pupa. Lubná, 325 m (42), 4.vi.2007, 1 ♀. Lubná, 270–300 m (44), 23.vi.2007, 1 ♂. Korytnice, 345 m (45), 26.vi.2010, 1 ♂ 1 ♀ pupa; 31.vii.2010, 1 ♂ 1 ♀ pupa 1 ♀ pupa. Korytnice, 290 m (46), 26.vi.2010, 1 ♂ 1 ♀. Okluky, 520 m (47), 30.v.2009, 1 ♂; 27.vi.2009, 1 ♂ pupa. RT Okluky, brooklets, 530–540 m (48), 29.vii.2009, 1 ♀ pupa. RT Okluky, 540 m (49), 29.vii.2009, 1 ♂ pupa 1 ♀ pupa. Okluky, 350–370 m (51), 29.vii.2009, 1 ♂ 1 ♀ pupa. LT Okluky, 375 m (52), 29.vii.2009, 2 ♂♂ pupae 1 ♀ pupa. Boršický potok, 370–420 m (54), 30.v.2009, 2 ♂♂ pupae 2 ♀♀ pupae; 27.vi.2009, 1 ♂. Boršický potok, 320 m (55), 30.v.2009, 1 ♂ pupa. Slavkovský potok, 335 m (56), 29.vii.2009, 1 ♂ 2 ♀♀ pupae. LT Velička, spring area, 570–620 m (64), 28.vi.–22.ix.2005, 2 ♂♂ 3 ♀♀, MT, CJM. Velička, 470–480 m (68), 4.vii.2005, 1 ♂; 3.x.2005, 1 ♂. LT Velička, 435 m (82), 5.–24.viii.2009, 1 ♀, MT, CJM. RT Velička, 450 m (84), 24.viii.–16.ix.2009, 1 ♂, MT, CJM. Kazivec, 460–485 m (87), 29.vii.2009, 1 ♂ pupa. LT Velička, right branch, 480 m (91), 2.vi.2009, 1 ♂. LT Velička, brooklets, 400 m (93), 2.vi.2009, 1 ♂ 1 ♀. LT Velička, 355–360 m (94), 30.vi.2005, 1 ♀; 25.vi.2009, 1 ♂; 24.viii.–14.ix.2009, 1 ♀, MT, CJM. Velička, 325–350 m (95), 2.viii.2004, 2 ♂♂ 1 ♀, L; 16.ix.2009, 2 ♂♂ 2 ♀♀, L. Hrubý potok, 340–370 m (101), 26.vii.2005, 1 ♂ 1 ♀, L. Zahrady pod Hájem NNR, 380 m (102), 12.v.–2.vi.2009, 1 ♂, MT, CJM. Malanský potok, 300 m (104), 6.vii.2005, 4 ♂♂ 1 ♀. Pond S Lipov (105), 3.viii.2004, 1 ♀, L. Járkovec, 320–365 m (113), 6.vii.2005, 2 ♂♂; 10.–31.vii.2006, 1 ♂ 1 ♀, MT, CJM. Radějovka, 175 m (119), 10.iv.2008, 4 larvae. Mandát, 350 m (123), 26.vi.–15.vii.2008, 1 ♀, MT, CJM; 15.vii.2008, 1 ♂. RT Mandát, spring area, 400–415 m (124), 4.–26.vi.2008, 1 ♀, MT, CJM. Mandát, 265 m (125), 19.vi.2006, 1 ♂. Rybnický potok, 380–400 m (136), 6.vi.2005, 1 ♀, L; 27.vi.2005, 1 ♂ 3 ♀♀, L; 27.vi.2005, 1 ♂; 14.vi.–10.viii.2010, 3 ♀♀, MT, CM. Teplíca, 345 m (137), 2.v.2007, 9 larvae. Sviborka, 350–355 m (145), 25.v.2006, 2 larvae. Lukšinka,

400–430 m (153), 27.vi.2010, 1 ♂ pupa. Lukšinka, 375 m (155), 1.viii.2010, 1 ♀. LT Lipovský potok, 415 m (157), 23.v.2010, 1 ♀. Lipovský potok, 370 m (158), 27.vi.2010, 1 ♀ pupa. Rokytenka, 450–460 m (164), 14.vii.2009, 1 ♂. Havránkův potok, 350–360 m (173), 27.v.2010, 1 ♂. LT Brumovka, 450 m (190), 23.vii.2005, 6 ♀♀, L. LT Brumovka, 400–430 m (198), 13.vii.2006, 2 ♂♂, L. Bylnička, 360–380 m (221), 13.vii.2009, 1 ♂. RT Vlárka, 430–470 m (243), 22.vi.2008, 1 ♂ 1 ♀, L. O. Konvička lgt. RT Vlárka, 370 m (245), 24.vii.2005, 1 ♂. RT Krátkovský potok, 510 m (260), 10.viii.2008, 1 ♀. Krátkovský potok, 450–485 m (261), 10.viii.2008, 1 ♂. Krátkovský potok, 420 m (267), 4.vi.2007, 1 ♀; 5.viii.2007, 1 ♂. Hrnčarův potok, 470–485 m (268), 31.v.2008, 4 ♂♂ 1 ♀, L. Žitkovský potok, 440–450 m (276), 19.vi.2007, 1 ♂. LT Predpolomský potok, spring area and brooklet, 630–650 m (283), 4.vi.2007, 1 ♀. LT Hrubár, spring area, 650–660 m (287), 17.vi.–22.vii.2007, 1 ♀, MT, BO. Soliskový potok, 580–590 m (292), 1.vi.2008, 3 ♂♂ 1 ♀; 28.vi.2008, 1 ♂; 10.viii.2008, 2 ♂♂. LT Hrubár, 440 m (297), 31.vii.2010, 1 ♂ pupa. RT Hrubár, 480–500 m (298), 9.vii.2010, 1 ♂. RT Klanečnice, spring section, 650 m (311), 23.vi.2007, 1 ♂. RT Klanečnice, 460–500 m (312), 2.vi.2007, 1 ♂; 23.vi.2007, 2 ♂♂; 25.v.–9.ix.2010, 3 ♂♂ 4 ♀♀, MT, CM; 15.vi.2010, 1 ♂. Svinárský potok, 560–590 m (314), 7.vi.–9.viii.2005, 2 ♂♂ 2 ♀♀, MT, CJM.

Distribution and frequency in the Bílé Karpaty PLA: Very common and abundant in springs and brooks throughout the area. **Red List status:** –.

Polycentropus flavomaculatus (Pictet, 1834)

Material examined. Olšava, 350–380 m (8), 19.vi.2007, 2 ♂♂; 28.vi.2009, 1 ♂. Kolelač, 335 m (10), 23.v.2010, 1 ♂; 1.viii.2010, 1 ♂. Kolelač, 295 m (13), 26.vi.2010, 1 ♂. Lom Rasová NM (14), 31.v.2008, 1 ♂ 3 ♀♀, L. Koménka, 275 m (19), 4.v.2009, 2 larvae. Olšava, 263 m (20), 26.v.2006, 2 larvae. Luhačovičky potok, 285 m (33), 24.v.2006, 1 ♂; 23.v.2010, 3 ♂♂; 1.viii.2010, 2 ♂♂. Lubná, 325 m (42), 4.vi.2007, 1 ♂. Lubná, 270–300 m (44), 23.vi.2007, 8 ♂♂; 10.vii.2007, 3 ♂♂; 4.viii.2007, 5 ♂♂. Velička, 400–420 m (83), 26.vii.2005, 8 ♂♂ 2 ♀♀; 3.vi.2009, 1 ♂. Velička, 325–350 m (95), 2.viii.2004, 4 ♂♂ 28 ♀♀, L; 4.vii.2005, 15 ♂♂; 25.vi.2009, 1 ♂; 16.ix.2009, 1 ♂ 3 ♀♀, L. Hrubý potok, 340–370 m (101), 26.vii.2005, 8 ♂♂ 18 ♀♀, L. Velička, 205 m (103), 27.vii.2005, 8 ♂♂ 8 ♀♀, L; 15.ix.2009, 1 ♂ 1 ♀. Radějovka, 315 m (110), 4.viii.2004, 1 ♂. Járkovec, 320–365 m (113), 1.vii.2009, 1 ♀, L, J. Macek lgt. Radějovka, 270 m (117), 20.vi.2006, 2 ♂♂; 26.vi.2008, 18 ♂♂ 2 ♀♀; 14.vii.2008, 3 ♂♂ 1 ♀. Sudoměřický potok, 300 m (120), 19.vi.2006, 2 ♂♂. Mandát, 350 m (123), 22.iv.–24.ix.2008, 19 ♂♂ 4 ♀♀, MT, CJM; 26.vi.2008, 2 ♂♂; 15.vii.2008, 1 ♂. Mandát, 265 m (125), 19.vi.2006, 2 ♂♂ 1 ♀; 27.vi.2008, 2 ♂♂. Sudoměřický potok, 220 m (127), 8.vi.2005, 1 ♀; 19.vi.2006, 1 ♀; 12.vii.2006, 2 ♂♂ 2 ♀♀; 27.vi.2008, 1 ♂. Sudoměřický potok, 210 m (128), 12.vii.2006, 1 ♀. Sudoměřický potok, 190 m (129), 27.vi.2008, 1 ♂ 1 ♀. Rybnický potok, 380–400 m (136), 10.viii.–7.ix.2010, 1 ♂, MT, CM. Teplica, 345 m (137), 19.ix.2006, 1 ♂; 2.v.2007, 1 ♂ pupa. Zápechová, 520–530 m (141), 10.vi.2005, 1 ♂; 18.vi.2010, 3 ♂♂. Sviborka, 350–355 m (145), 24.ix.2009, 1 ♂. Vlára, 345 m (146), 31.vii.2004, 9 ♂♂. Rokytenka, 390 m (165), 14.vii.2009, 2 ♂♂. Rokytenka, 370 m (166), 14.vii.2009, 18 ♂♂ 2 ♀♀. Zelenský potok, 325–330 m (181), 16.vii.2009, 1 ♂. Brumovka, 340–355 m (196), 1.viii.2004, 3 ♂♂ 5 ♀♀. LT Brumovka, 400–430 m (198), 13.vii.2006, 6 ♂♂ 12 ♀♀, L. Vlára, 285 m (236), 24.vii.2005, 11 ♂♂; 12.vii.2006, 1 ♂ 1 ♀; 14.vii.2006, 3 ♀♀, L; 15.vii.2009, 1 ♂. Krátkovský potok, 420 m (267), 5.viii.2007, 1 ♂. Žitkovský potok, 440–450 m (276), 11.vii.2007, 1 ♂. Žitkovský potok, 360–380 m (281), 11.vii.2007, 2 ♂♂. Hrubár, 435 m (295), 1.vi.2008, 13 ♂♂ 1 ♀. Hrubár, 365–370 m (305), 1.vi.2008, 5 ♂♂ 1 ♀; 28.vi.2008, 9 ♂♂; 11.viii.2008, 7 ♂♂. Klanečnice, 450 m (308), 22.vi.2007, 1 ♂. Klanečnice, 345–350 m (324), 5.v.2009, 2 ♂♂; 15.vi.2010, 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Common along middle and lower reaches of streams. **Red List status:** –.

Comments. Very abundant in running and standing waters throughout the Czech Republic.

***Polycentropus irroratus* (Curtis, 1835)**

(VU)

Material examined. Koleč, 335 m (10), 27.vi.2010, 2 ♂♂ 1 ♀. Kladenska, 265 m (24), 15.vii.2009, 1 ♂ 3 ♀♀. Lubná, 325 m (42), 4.vi.2007, 1 ♀. Lubná, 270–300 m (44), 23.vi.2007, 1 ♂ 1 ♀. Velička, 400–420 m (83), 26.vii.2005, 1 ♂. Velička, 325–350 m (95), 2.viii.2004, 2 ♀♀, L. Velička, 205 m (103), 20.v.2005, 16 ♂♂ 3 ♀♀. Kuželovský potok, 204–212 m (106), 16.vii.1958, 1 ♀, S. Obr lgt. Radějovka, 175 m (119), 8.vi.2005, 2 ♂♂. Mandát, 360 m (121), 15.vii.2008, 1 ♀. Mandát, 350 m (123), 4.vi.–24.ix.2008, 6 ♂♂ 3 ♀♀, MT, CJM. Rybnický potok, 410–445 m (135), 9.vii.–2.viii.2007, 1 ♀, MT, CJM. Rybnický potok, 380–400 m (136), 27.vi.2005, 1 ♂ 1 ♀, L; 14.vi.–10.viii.2010, 2 ♂♂ 5 ♀♀, MT, CM. Teplica, 345 m (137), 25.ix.2007, 20 larvae. Krátkovský potok, 360 m (274), 5.v.2009, 2 larvae. Žitkovský potok, 360–380 m (281), 5.x.2009, 3 larvae. Klanečnice, 450 m (308), 4.viii.2007, 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Found quite often in middle and lower reaches of streams throughout the area except its north-eastern part. **Red List status:** VU.

Comments. Generally, in the Czech Republic it occurs infrequently and locally in streams and in stony littoral zone of reservoirs.

Family PSYCHOMYIIDAE***Lype phaeopa* (Stephens, 1836)**

Published records. OBR (1969): Vlára, 285 m (236).

Additional material examined. Luhačovický potok, 325 m (27), 1.viii.2010, 3 ♂♂ 3 ♀♀. Luhačovický potok, 285 m (33), 24.v.2006, 1 ♂; 23.v.2010, 13 ♂♂ 1 ♀; 27.vi.2010, 4 ♂♂ 3 ♀♀; 1.viii.2010, 5 ♂♂ 2 ♀♀; 9.x.2010, 1 ♂. Lubná, 270–300 m (44), 23.vi.2007, 1 ♂. Kuželovský potok, 204–212 m (106), 7.x.2009, 1 ♂. Radějovka, 270 m (117), 14.vii.2008, 2 ♂♂. Mandát, 350 m (123), 15.vii.–5.viii.2008, 1 ♂, MT, CJM. Sudoměřický potok, 220 m (127), 27.vii.2005, 1 ♂ 3 ♀♀; 19.vi.2006, 1 ♂; 12.vii.2006, 1 ♂; 27.vi.2008, 3 ♂♂. Sudoměřický potok, 190 m (129), 27.vii.2005, 1 ♂; 27.vi.2008, 1 ♂. Rokytka, 370 m (166), 14.vii.2009, 11 ♂♂ 3 ♀♀. Brumovka, 340–355 m (196), 31.vii.2004, 1 ♂; 25.v.2006, 1 ♂. Vlára, 285 m (236), 24.vii.2005, 2 ♂♂. Klanečnice, 450 m (308), 22.vi.2007, 1 ♂; 4.viii.2007, 1 ♂ 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Quite common in meta- and hyporhithral zones of streams. **Red List status:** –.

***Lype reducta* (Hagen, 1868)**

Material examined. Suchý potok, 400–430 m (7), 7.vii.2010, 4 ♂♂. Olšava, 350–380 m (8), 7.vii.2010, 1 ♂. Koleč, 335 m (10), 23.v.2010, 4 ♂♂; 27.vi.2010, 2 ♂♂ 1 ♀; 1.viii.2010, 7 ♂♂ 1 ♀. Koménka, 275 m (19), 24.ix.2009, 1 ♀; 31.vii.2010, 1 ♂. Kladenska, 390 m (22), 23.vi.2008, 6 ♂♂ 1 ♀. Třešňůvka, 310 m (23), 27.ix.2009, 1 ♂; 26.vi.2010, 1 ♂. Gáborka, 280 m (35), 27.vi.2010, 1 ♂ 1 ♀; 1.viii.2010, 3 ♂♂. Lubná, 325 m (42), 4.vi.2007, 5 ♂♂; 4.viii.2007, 1 ♀. Lubná, 270–300 m (44), 10.vii.2007, 2 ♂♂. Korytnice, 345 m (45), 31.vii.2010, 1 ♂. Okluky, 350–370 m (51), 28.vi.2006, 1 ♂, J. Ježek lgt.; 29.vii.2009, 1 ♀. Boršický potok, 320 m (55), 30.v.2009, 1 ♂; 28.ix.2009, 1 ♂. Kamenný potok, 510 m (72), 7.vii.2005, 2 ♂♂. LT Velička, 435 m (82), 3.–22.vi.2009, 1 ♂, MT, CJM. Kazivec, 390–410 m (90), 2.viii.2004, 1 ♂ 1 ♀. Velička, 325–350 m (95), 2.viii.2004, 1 ♀, L; 4.vii.2005, 1 ♂. Hrubý potok, 455 m (97), 14.vi.2010, 1 ♂. Hrubý potok, 400–415 m (99), 25.vii.2005, 1 ♂. Radějovka, 315 m (110), 4.viii.2004, 1 ♂ 2 ♀♀. Járkovec, 320–365 m (113), 1.vi.2009, 1 ♂. Radějovka, 270 m (117), 20.vi.2006, 1 ♂; 14.vii.2008, 1 ♂. Mandát, 350 m (123), 26.vi.–15.vii.2008, 2 ♂♂, MT, CJM. Mandát, 265 m (125), 19.vi.2006, 2 ♂♂. Sudoměřický potok, 220 m (127), 19.vi.2006, 1 ♂; 27.vi.2008, 6 ♂♂. Sudoměřický potok, 190 m (129), 27.vii.2005, 1 ♂; 27.vi.2008, 1 ♂. Rybnický potok, 410–445 m (135), 27.vi.2005, 4 ♂♂; 5.vii.2005, 2 ♂♂ 2 ♀♀; 9.vii.2007, 2 ♂♂; 9.vii.–2.viii.2007, 1 ♂ 1 ♀.

MT, CJM. Rybnický potok, 380–400 m (136), 6.vi.2005, 2 ♂♂ 1 ♀; 27.vi.2005, 4 ♂♂; 5.vii.2005, 1 ♀. Zápechová, 520–530 m (141), 10.vi.2005, 1 ♂; 18.vi.2010, 5 ♂♂ 10 ♀♀. Sviborka, 380 m (143), 24.vi.2008, 1 ♂. Sviborka, 350–355 m (145), 31.vii.2004, 1 ♂ 1 ♀. Vlára, 345 m (146), 31.vii.2004, 18 ♂♂ 3 ♀♀. Lukšinka, 375 m (155), 23.v.2010, 2 ♂♂; 27.vi.2010, 1 ♀. Lipovský potok, 370 m (158), 23.v.2010, 4 ♂♂; 27.vi.2010, 2 ♂♂ 4 ♀♀. Rokytenka, 450–460 m (164), 14.vii.2009, 1 ♂. RT Rokytenka, left branch, 500 m (167), 14.vii.2009, 1 ♂. Rakové, 440–450 m (186), 11.vi.2005, 12 ♂♂ 5 ♀♀; 17.vi.2006, 1 ♂ 2 ♀♀. LT Brumovka, 420 m (188), 22.vi.2006, 1 ♂. Nedašovka, 450–470 m (202), 1.viii.2004, 3 ♂♂ 1 ♀. Vlára, 285 m (236), 24.vii.2005, 1 ♂. Vlárka, 290–320 m (246), 24.vii.2005, 2 ♂♂. Drietomice, 360–390 m (258), 8.vii.2010, 1 ♂. Krátkovský potok, 450–485 m (261), 18.vi.2007, 1 ♂ 1 ♀. Krátkovský potok, 420 m (267), 4.vi.2007, 5 ♂♂ 2 ♀♀; 5.viii.2007, 4 ♂♂ 2 ♀♀. Hrnčarův potok, 470–485 m (268), 31.v.2008, 1 ♂. Hrnčarův potok, 420 m (270), 18.vi.2007, 4 ♂♂ 1 ♀. Vlčí potok, 440 m (272), 31.v.2008, 1 ♂ 1 ♀; 10.viii.2008, 5 ♂♂. Žitkovský potok, 440–450 m (276), 19.vi.2007, 1 ♂; 11.vii.2007, 4 ♂♂. Hrubár, 435 m (295), 31.vii.2010, 1 ♂ 1 ♀. Zlatný potok, 430–450 m (304), 11.viii.2008, 1 ♂ 3 ♀♀. Hrubár, 365–370 m (305), 28.vi.2008, 1 ♂; 11.viii.2008, 1 ♂. Klanečnice, 450 m (308), 2.vi.2007, 1 ♂ 1 ♀; 22.vi.2007, 2 ♂♂; 4.viii.2007, 1 ♂ 1 ♀. Svinárský potok, 460 m (318), 7.vii.2005, 1 ♂. Svinárský potok, 390–420 m (320), 7.vii.2005, 4 ♂♂; 26.vii.2005, 2 ♂♂.

Distribution and frequency in the Bílé Karpaty PLA: Very common and abundant in brooks throughout the area up to *ca.* 550 m a.s.l. **Red List status:** –.

Psychomyia pusilla (Fabricius, 1781)

Material examined. Lom Rasová NM (14), 31.v.2008, 1 ♂ 3 ♀♀, L. Velička, 325–350 m (95), 2.viii.2004, 1 ♀, L. Velička, 205 m (103), 27.vii.2005, 1 ♂ 1 ♀, L; 15.ix.2009, 3 ♂♂ 5 ♀♀, L. Vlára, 315 m (174), 21.vi.2005, 2 ♂♂, J. Ježek lgt. Brumovka, 340–355 m (196), 1.viii.2004, 2 ♀♀, L. Vlára, 285 m (236), 17.vii.1958, 2 ♂♂ 1 ♀, S. Obr lgt.; 9.vi.2005, 16 ♂♂; 24.vii.2005, 7 ♂♂ 2 ♀♀; 6.vi.2006, 5 ♂♂ 2 ♀♀; 12.vii.2006, 1 ♂; 14.vii.2006, 60 ♂♂ 245 ♀♀, L; 15.vii.2009, 2 ♂♂; 25.v.2010, 4 ♂♂.

Distribution and frequency in the Bílé Karpaty PLA: Abundant only in the lowermost reaches of the Vlára and Velička streams. **Red List status:** –.

Comments. Generally common in streams and rivers at medium and lower altitudes throughout the Czech Republic.

Tinodes pallidulus McLachlan, 1878

Material examined. Kladenka, 245 m (26), 15.vii.2009, 1 ♂. Gáborka, 280 m (35), 27.vi.2010, 1 ♂. LT Luhačovický potok, 330 m (36), 27.vi.2009, 1 ♀, L. LT Kazivec, 420–440 m (88), 1.vii.2005, 6 ♂♂ 3 ♀♀. Járkovec, 320–365 m (113), 20.vi.–21.viii.2006, 2 ♂♂ 1 ♀, MT, CJM. Radějovka, 270 m (117), 20.vi.2006, 1 ♂; 26.vi.2008, 4 ♂♂ 6 ♀♀; 14.vii.2008, 1 ♂ 6 ♀♀. Mandát, 360 m (121), 15.vii.2008, 1 ♂. Mandát, 350 m (123), 22.vi.–26.viii.2008, 4 ♂♂, MT, CJM. Sviborka, 350–355 m (145), 31.vii.2004, 1 ♂ 3 ♀♀. Vlára, 345 m (146), 31.vii.2004, 1 ♂ 8 ♀♀. Klanečnice, 420 m (310), 2.vi.2007, 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Found only locally and quite infrequently in colline and submontane streams, as in other regions of the Czech Republic. **Red List status:** –.

Tinodes rostocki McLachlan, 1878

Material examined. Kolelač, 335 m (10), 23.v.2010, 9 ♂♂ 3 ♀♀; 11.v.2011 2 ♂♂. Koménka, 375 m (16), 22.v.2010, 1 ♂. Petrůvka, 300 m (32), 27.vi.2010, 4 ♀♀. Pivný potok, 470 m (40), 26.vi.2010, 1 ♀. Pivný potok, 390 m (41), 22.v.2010, 2 ♂♂ 2 ♀♀. Korytnice, 345 m (45), 26.vi.2010, 1 ♂. Velička, 700–750 m (59),

Caddis flies (Trichoptera)

3.viii.2004, 16 ♂♂ 31 ♀♀; 7.vi.2005, 1 ♂ 1 ♀; 28.vi.2005, 1 ♂ 6 ♀♀; 4.vii.2005, 10 ♂♂ 7 ♀♀; 28.vii.2005, 21 ♂♂ 4 ♀♀. LT Velička, 550–560 m (63), 3.viii.2004, 2 ♀♀; 28.vi.2005, 1 ♂ 3 ♀♀; 4.vii.2005, 1 ♂ 4 ♀♀. LT Velička, spring area, 570–620 m (64), 3.viii.2004, 1 ♂; 28.vii.2005, 5 ♂♂ 2 ♀♀. Velička, 530–540 m (65), 3.viii.2004, 7 ♂♂ 9 ♀♀; 28.vi.2005, 16 ♂♂ 9 ♀♀; 4.vii.2005, 32 ♂♂ 9 ♀♀; 28.vii.2005, 6 ♂♂ 1 ♀. Velička, 470–480 m (68), 3.viii.2004, 4 ♂♂ 8 ♀♀; 7.vi.2005, 1 ♂ 2 ♀♀; 28.vi.2005, 12 ♂♂ 6 ♀♀; 4.vii.2005, 26 ♂♂ 18 ♀♀. LT Kamenný potok, 510–550 m (70), 29.vi.2005, 36 ♂♂ 16 ♀♀. LT Velička, left branch, 600 m (78), 5.vi.2009, 4 ♂♂ 1 ♀. LT Velička, 435 m (82), 12.v.–3.vi.2009, 2 ♂♂ 1 ♀, MT, CJM. LT Velička, 355–360 m (94), 3.vi.2009, 1 ♂; 2.–25.vi.2009, 2 ♂♂ 1 ♀, MT, CJM. Velička, 325–350 m (95), 3.vi.2009, 1 ♂. Radošínský potok, 540–570 m (139), 10.vi.2005, 1 ♀. Zápechová, 520–530 m (141), 10.vi.2005, 9 ♂♂ 10 ♀♀; 18.vi.2010, 4 ♂♂ 3 ♀♀. RT Sviborka, 390–425 m (142), 24.vi.2008, 2 ♀♀. Zelenský potok, 410 m (176), 16.vii.2009, 1 ♂. Rakové, 440–450 m (186), 11.vi.2005, 1 ♀; 17.vi.2006, 3 ♂♂ 1 ♀. LT Brumovka, 420 m (188), 11.vi.2005, 1 ♀; 17.vi.2006, 30 ♂♂ 18 ♀♀; 22.vi.2006, 9 ♂♂ 3 ♀♀. Nedašovka, 450–470 m (202), 1.viii.2004, 1 ♀. LT Nedašovka, 490–570 m (206), 1.viii.2004, 3 ♂♂ 2 ♀♀. LT Nedašovka, brook and springs, 520 m (208), 14.vii.2006, 2 ♀♀. Návojník, 520 m (212), 14.vii.2006, 1 ♂ 1 ♀. Bukový potok, spring area, 600 m (226), 24.v.–11.viii.2010, 2 ♂♂, MT, CM. Drietomice, 400 m (250), 8.vii.2010, 5 ♂♂ 4 ♀♀. LT Drietomice, 440 m (253), 8.vii.2010, 1 ♂ 1 ♀. Drietomice, 360–390 m (258), 4.vi.2007, 2 ♂♂ 1 ♀; 24.vi.2007, 1 ♂ 1 ♀; 5.vii.2007, 1 ♀; 8.vii.2010, 1 ♂. Krátkovský potok, 450–485 m (261), 31.v.2008, 2 ♂♂. Krátkovský potok, 420 m (267), 4.vi.2007, 5 ♂♂. Hrnčarův potok, 470–485 m (268), 31.v.2008, 19 ♂♂ 41 ♀♀; 27.vi.2008, 2 ♂♂ 2 ♀♀; 10.viii.2008, 2 ♂♂. Hrnčarův potok, 420 m (270), 18.vi.2007, 11 ♂♂ 5 ♀♀. Predpolomský potok, 480 m (282), 20.vi.2007, 1 ♂ 1 ♀. Hrubár, 650–670 m (286), 15.vi.2006, 2 ♂♂, J. Bojková lgt. Hrubár, 560–570 m (289), 20.vi.2007, 11 ♂♂ 7 ♀♀; 25.vi.2008, 32 ♂♂ 21 ♀♀. Soliskový potok, 580–590 m (292), 1.vi.2008, 5 ♂♂ 1 ♀; 25.vi.2008, 2 ♂♂ 1 ♀; 28.vi.2008, 4 ♂♂ 1 ♀. Hrubár, 435 m (295), 1.vi.2008, 23 ♂♂ 17 ♀♀. Zlatný potok, 430–450 m (304), 1.vi.2008, 3 ♂♂ 2 ♀♀. Svinárský potok, 560–590 m (314), 9.–29.viii.2005, 1 ♀, MT, CJM. Svinárský potok, 460 m (318), 7.vii.2005, 4 ♂♂ 2 ♀♀. RT Svinárský potok, 425 m (319), 7.vii.2005, 1 ♂. Svinárský potok, 390–420 m (320), 7.vii.2005, 2 ♀♀.

Distribution and frequency in the Bílé Karpaty PLA: Very common and abundant in rhithral in the submontane and montane zones. **Red List status:** –.

Tinodes unicolor (Pictet, 1834)

Material examined. Suchý potok, 400–430 m (7), 7.vii.2010, 1 ♀. Olšava, 350–380 m (8), 19.vi.2007, 3 ♂♂ 1 ♀. Lom Rasová NM (14), 31.v.2008, 1 ♀. L. Koménka, 275 m (19), 24.ix.2009, 2 ♂♂ 1 ♀; 31.vii.2010, 4 ♂♂ 10 ♀♀. Kladenska, 390 m (22), 23.vi.2008, 1 ♀; 16.vii.2008, 1 ♀; 23.vi.–25.viii.2008, 17 ♂♂ 38 ♀♀, MT, CJM. Nivnička, spring area, 580 m (37), 31.vii.2010, 2 ♂♂. Nivnička, 480 m (38), 31.vii.2010, 2 ♀♀. Pivný potok, 470 m (40), 31.vii.2010, 1 ♀. Pivný potok, 390 m (41), 31.vii.2010, 4 ♂♂ 6 ♀♀. Lubná, 325 m (42), 4.viii.2007, 14 ♂♂ 17 ♀♀. Lubná, 270–300 m (44), 23.vi.2007, 1 ♀; 10.vii.2007, 2 ♀♀; 4.viii.2007, 5 ♂♂ 7 ♀♀. Korytnice, 345 m (45), 31.vii.2010, 1 ♂. RT Okluky, 540 m (49), 29.vii.2009, 1 ♀. RT Okluky, spring area, 525 m (50), 29.vii.2009, 1 ♂. Okluky, 350–370 m (51), 29.vii.2009, 1 ♂ 2 ♀♀. Boršický potok, 370–420 m (54), 27.vi.2009, 1 ♂. Boršický potok, 320 m (55), 27.vi.2009, 4 ♂♂ 2 ♀♀. LT Velička, spring area, 570–620 m (64), 28.vii.2005, 1 ♂; 9.viii.–27.x.2005, 4 ♂♂ 3 ♀♀, MT, CJM. Velička, 530–540 m (65), 3.viii.2004, 1 ♂ 4 ♀♀. Velička, 470–480 m (68), 3.viii.2004, 1 ♂ 5 ♀♀. RT Kamenný potok, spring area, 560 m (71), 2.viii.2004, 1 ♀. Kamenný potok, 465 m (73), 2.viii.2004, 3 ♂♂. LT Velička, 435 m (82), 26.vii.2005, 4 ♂♂ 3 ♀♀; 15.vii.–24.viii.2009, 7 ♀♀, MT, CJM. Velička, 400–420 m (83), 26.vii.2005, 3 ♂♂ 5 ♀♀. RT Velička, 450 m (84), 4.–24.viii.2009, 1 ♂, MT, CJM. RT Kazivec, right branch, 515 m (85), 2.viii.2004, 2 ♂♂ 2 ♀♀. Kazivec, 390–410 m (90), 2.viii.2004, 9 ♂♂ 10 ♀♀. LT Velička, 355–360 m (94), 25.vi.–24.viii.2009, 1 ♂ 4 ♀♀, MT, CJM. Velička, 325–350 m (95), 2.viii.2004, 8 ♂♂ 65 ♀♀. L. Hrubý potok, 455 m (97), 1.viii.2007, 1 ♀. J. Ježek lgt. Hrubý potok, 400–415 m (99), 25.vii.2005, 12 ♂♂ 10 ♀♀. RT Hrubý potok, 400–500 m (100), 25.vii.2005, 3 ♂♂ 2 ♀♀. Hrubý potok, 340–370 m (101), 25.vii.2005, 28 ♂♂ 27 ♀♀; 26.vii.2005, 12 ♂♂ 57 ♀♀. L. Radějovka, 355–360 m (108), 14.vii.–12.viii.2010, 2 ♂♂ 2 ♀♀, MT, CM. Járkovec, 320–365 m (113), 20.vi.–21.viii.2006, 9 ♂♂ 30 ♀♀, MT, CJM. Mandát, 360 m (121), 15.vii.2008, 1 ♀. Mandát, 350 m (123), 4.vi.–26.viii.2008, 5 ♀♀, MT, CJM. Mandát, 265 m (125), 27.vi.2008, 1 ♀. Sudoměřický potok, 190 m (129), 27.vii.2005, 24 ♂♂ 23 ♀♀; 27.vi.2008, 1 ♂. Rybnický potok, 410–445 m (135), 9.vii.–2.viii.2007, 1 ♀, MT,

CJM. Rybnický potok, 380–400 m (136), 27.vi.2005, 1 ♂; 5.vii.2005, 3 ♂♂ 3 ♀♀; 14.vi.–7.ix.2010, 19 ♂♂ 73 ♀♀, MT, CM. Rokytenka, 450–460 m (164), 14.vii.2009, 7 ♂♂ 10 ♀♀. Rokytenka, 390 m (165), 14.vii.2009, 6 ♂♂ 3 ♀♀. RT Rokytenka, right branch, 400 m (169), 14.vii.2009, 1 ♀. RT Rokytenka, 365 m (170), 14.vii.2009, 1 ♂ 1 ♀. Zelenský potok, 410 m (176), 16.vii.2009, 2 ♂♂. Kochavecký potok, 410 m (178), 16.vii.2009, 2 ♂♂ 8 ♀♀. Vápenický potok, 360 m (180), 16.vii.2009, 15 ♂♂ 22 ♀♀. Zelenský potok, 325–330 m (181), 16.vii.2009, 32 ♂♂ 38 ♀♀. LT Brumovka, spring areas, 430–460 m (197), 31.vii.–23.viii.2006, 1 ♀, MT, CJM. Nedašovka, 450–470 m (202), 1.viii.2004, 2 ♂♂ 4 ♀♀. LT Nedašovka, 600–610 m (205), 1.viii.2004, 2 ♂♂ 2 ♀♀. LT Nedašovka, 490–570 m (206), 1.viii.2004, 5 ♂♂ 7 ♀♀; 24.viii.2006, 1 ♂ 1 ♀. Návojník, 410 m (213), 14.vii.2006, 4 ♂♂ 2 ♀♀. LT Bylnička, spring area, 600 m (215), 13.vii.2009, 3 ♀♀. LT Bylnička brook, 500 m (217), 13.vii.2009, 1 ♂. Bylnička, 420 m (219), 13.vii.2009, 6 ♂♂ 1 ♀. Bylnička, 360–380 m (221), 13.vii.2009, 31 ♂♂ 9 ♀♀. Hlubočský potok, 330 m (225), 24.vii.2005, 20 ♂♂ 30 ♀♀. Bukový potok, 350–370 m (232), 15.vii.2009, 2 ♂♂ 4 ♀♀. LT Bukový potok, 370 m (234), 15.vii.2009, 6 ♂♂ 5 ♀♀. Bukový potok, 330 m (235), 15.vii.2009, 1 ♂. RT Vlárka, 430–470 m (243), 5.vii.–11.viii.2010, 2 ♂♂ 4 ♀♀, MT, CM. Vlárka, 290–320 m (246), 24.vii.2005, 24 ♂♂ 23 ♀♀. LT Drietomice, spring areas and brooks, 550–600 m (251), 13.vii.2007, 1 ♀; 5.viii.2007, 1 ♂. LT Drietomice, 500–550 m (252), 13.vii.2007, 2 ♂♂. LT Drietomice, 440 m (253), 13.vii.2007, 1 ♀. LT Drietomice, 435–440 m (255), 20.vi.2007, 1 ♀; 5.viii.2007, 1 ♀. Drietomice, 360–390 m (258), 24.vi.2007, 2 ♂♂ 1 ♀; 5.viii.2007, 12 ♂♂ 9 ♀♀. Krátkovský potok, 420 m (267), 5.viii.2007, 22 ♂♂ 23 ♀♀. Hrnčarův potok, 470–485 m (268), 10.viii.2008, 1 ♂ 7 ♀♀. LT Hrnčarův potok, spring area and brooklet, 490 m (269), 10.viii.2008, 7 ♂♂ 8 ♀♀. Vlčí potok, 440 m (272), 10.viii.2008, 2 ♀♀. Žitkovský potok, 440–450 m (276), 19.vi.2007, 1 ♀; 11.vii.2007, 15 ♂♂ 21 ♀♀. Žitkovský potok, 360–380 m (281), 11.vii.2007, 3 ♂♂ 6 ♀♀. LT Predpolomský potok, spring area and brooklet, 630–650 m (283), 5.viii.2007, 8 ♂♂ 1 ♀. LT Hrubár, spring area, 650–660 m (287), 22.vii.–12.viii.2007, 1 ♂ 3 ♀♀, MT, BO. RT Hrubár, spring area, 640–650 m (288), 5.vi.–22.ix.2006, 41 ♂♂ 21 ♀♀, MT, BO. Hrubár, 560–570 m (289), 25.vi.2008, 1 ♂. Hrubár, 435 m (295), 31.vii.2010, 7 ♂♂ 6 ♀♀. LT Hrubár, 440 m (297), 31.vii.2010, 1 ♂ 6 ♀♀. RT Hrubár, 480–500 m (298), 9.vii.2010, 1 ♂ 1 ♀. Zlatný potok, 430–450 m (304), 12.vii.2007, 1 ♀; 11.viii.2008, 2 ♂♂ 1 ♀. Klanečnice, 450 m (308), 4.viii.2007, 1 ♂. RT Klanečnice, 460–500 m (312), 9.vii.–9.ix.2010, 5 ♂♂ 8 ♀♀, MT, CM. Svinárský potok, 390–420 m (320), 26.vii.2005, 2 ♂♂ 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: This calciphilous species is very common in springs and brooks up to *ca.* 650 m a.s.l. **Red List status:** –.

Tinodes waeneri (Linnaeus, 1758)

Material examined. Luhačovický potok, 285 m (33), 27.vi.2010, 2 ♂♂ 1 ♀. Velička, 205 m (103), 15.ix.2009, 2 ♀♀, L. Rokytenka, 390 m (165), 14.vii.2009, 1 ♂ 2 ♀♀. Klanečnice, 345–350 m (324), 15.vi.2010, 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Found only occasionally in streams; generally, it prefers rivers and the littoral zone of reservoirs in colline and submontane zones. **Red List status:** –.

Family ECNOMIDAE

Ecnomus tenellus (Rambur, 1842)

Material examined. Pond S Lipov (105), 3.viii.2004, 1 ♂, L. Pond N Slavičín (160), 27.vi.2010, 4 ♀♀.

Distribution and frequency in the Bílé Karpaty PLA: Found only rarely in ponds. **Red List status:** –.

Comments. A generally common species of standing waters at lower altitudes in the Czech Republic.

Family HYDROPSYCHIDAE

Hydropsyche angustipennis (Curtis, 1834)

Material examined. Luhačovický potok, 325 m (27), 24.vi.2008, 1 ♂. Luhačovický potok, 285 m (33), 23.v.2010, 3 ♂♂ pupae; 27.vi.2010, 7 ♂♂. LT Velička, 355–360 m (94), 15.vii.–5.viii.2009, 1 ♂, MT, CJM. Velička, 205 m (103), 20.v.2005, 1 ♂; 27.vii.2005, 12 ♂♂, L; 15.ix.2009, 11 ♂♂. Kuželovský potok, 204–212 m (106), 6.v.2009, 8 larvae. Mandát, 350 m (123), 26.vi.–15.vii.2008, 1 ♂, MT, CJM. Sudoměřický potok, 190 m (129), 5.v.2009, 2 larvae. Rybnický potok, 380–400 m (136), 14.vi.–10.viii.2010, 4 ♂♂, MT, CM. Říka, 375 m (152), 22.vi.2005, 1 ♂, J. Ježek lgt. Lukšinka, 375 m (155), 1.viii.2010, 1 ♂. RT Rokytenka, 365 m (170), 14.vii.2009, 4 ♂♂. Vlára, 315 m (174), 21.vi.2005, 1 ♂, J. Ježek lgt.; 26.v.2006, 1 ♂ pupa. Klanečnice, 345–350 m (324), 5.v.2009, 4 larvae.

Distribution and frequency in the Bílé Karpaty PLA: A common species recorded from several streams at lower altitudes. **Red List status:** –.

Hydropsyche bulbifera McLachlan, 1878

Material examined. Olšava, 263 m (20), 26.v.2006, 1 ♂ 2 ♂♂ pupae. Luhačovický potok, 285 m (33), 24.v.2006, 3 ♂♂; 9.x.2010, 1 ♂. Velička, 325–350 m (95), 11.iv.2008, 2 larvae. Velička, 205 m (103), 20.v.2005, 4 ♂♂; 27.vii.2005, 225 ♂♂, L; 15.ix.2009, 20 ♂♂, L. Kuželovský potok, 204–212 m (106), 4.v.2009, 4 ♂♂ 1 ♀. Járkovec, 320–365 m (113), 19.iv.–31.vii.2006, 2 ♂♂, MT, CJM. Vlára, 315 m (174), 20.v.2005, 1 ♂; 21.vi.2005, 2 ♂♂, J. Ježek lgt. Zelenský potok, 325–330 m (181), 25.ix.2009, 4 larvae. Brumovka, 340–355 m (196), 1.viii.2004, 3 ♂♂, L. LT Brumovka, 400–430 m (198), 13.vii.2006, 3 ♂♂, L. Vlára, 285 m (236), 24.vii.2005, 1 ♂; 6.vi.2006, 1 ♂; 14.vii.2006, 1 ♂, L; 29.iv.2011, 2 ♂♂. Klanečnice, 345–350 m (324), 15.vi.2010, 5 ♂♂.

Distribution and frequency in the Bílé Karpaty PLA: Found quite frequently in streams up to ca. 350 m a.s.l. **Red List status:** –.

Hydropsyche fulvipes (Curtis, 1834)

(EN)

Published records. CHVOJKA & KOMZÁK (2008): Radošínský potok, 540–570 m (139).

Additional material examined. Vlčí potok, 440–450 m (4), 31.v.2009, 2 ♂♂ pupae. Kladenka, 390 m (22), 13.v.–25.viii.2008, 16 ♂♂, MT, CJM. Nivnička, 480 m (38), 26.vi.2010, 1 ♂. Pivný potok, 470 m (40), 26.vi.2010, 1 ♂ pupa. Korytnice, 345 m (45), 26.vi.2010, 1 ♂ 2 ♂♂ pupae; 31.vii.2010, 2 ♂♂ pupae. Okluky, 350–370 m (51), 29.vii.2009, 4 ♂♂ pupae. Boršický potok, 370–420 m (54), 30.v.2009, 1 ♂ 1 ♂ pupa; 27.vi.2009, 1 ♂ pupa. Slavkovský potok, 335 m (56), 29.vii.2009, 3 ♂♂ pupae. LT Velička, left branch, 600 m (78), 5.vi.2009, 9 ♂♂ 5 ♀♀. LT Velička, 355–360 m (94), 12.v.–14.ix.2009, 51 ♂♂, MT, CJM; 2.vi.2009, 1 ♂. Radějovka, 355–360 m (108), 14.vii.–12.viii.2010, 1 ♂, MT, CM. Járkovec, 320–365 m (113), 11.vii.2006, 1 ♂. Sudoměřický potok, 300 m (120), 19.vi.2006, 1 ♂. Mandát, 350 m (123), 26.vi.–15.vii.2008, 1 ♂, MT, CJM. Rybnický potok, 410–445 m (135), 9.v.–9.vii.2007, 7 ♂♂, MT, CJM. Rybnický potok, 380–400 m (136), 14.vi.–10.viii.2010, 6 ♂♂, MT, CM. Lukšinka, 400–430 m (153), 27.vi.2010, 1 ♂. LT Rakové, spring areas and brooklets, 600–670 m (184), 22.vi.–13.vii.2006, 1 ♂, MT, CJM. LT Drietomice, spring areas and brooks, 550–600 m (251), 4.vi.2007, 1 ♂; 5.viii.2007, 1 ♂. LT Hrubár, 440 m (297), 31.vii.2010, 2 ♂♂ pupae. RT Klanečnice, 460–500 m (312), 9.vii.–9.ix.2010, 2 ♂♂, MT, CM.

Distribution and frequency in the Bílé Karpaty PLA: Found quite frequently in brooks up to ca. 650 m a.s.l. **Red List status:** EN.

Comments. This species living in spring brooklets and small brooks occurs rarely in the Czech Republic, particularly in Bohemia. It has been recorded from Moravia only

recently (CHVOJKA & KOMZÁK 2008); it may be more abundant locally in south-eastern Moravia.

Hydropsyche incognita Pitsch, 1993

Material examined. Vlára, 315 m (174), 20.v.2005, 1 ♂. Vlára, 285 m (236), 22.vi.2008, 1 ♂, L, O. Konvička lgt. RT Vlárka, 430–470 m (243), 22.vi.2008, 2 ♂♂, L, O. Konvička lgt.

Distribution and frequency in the Bílé Karpaty PLA: Collected only along the lower reach of the Vlára river. **Red List status:** –.

Comments. Generally widespread and common in the Czech Republic.

Hydropsyche instabilis (Curtis, 1834)

Material examined. Olšava, 350–380 m (8), 19.vi.2007, 1 ♂; 28.vi.2009, 2 ♂♂ pupae. Koménka, 275 m (19), 31.vii.2010, 5 ♂♂ pupae. Třešňůvka, 310 m (23), 26.vi.2010, 1 ♂ pupa. Petrůvka, 300 m (32), 27.vi.2010, 1 ♂ pupa. Boršický potok, 320 m (55), 27.vi.2009, 1 ♂ pupa. Velička, 325–350 m (95), 2.viii.2004, 13 ♂♂, L; 16.ix.2009, 3 ♂♂, L. Hrubý potok, 340–370 m (101), 25.vii.2005, 2 ♂♂; 26.vii.2005, 11 ♂♂, L. Járkovec, 320–365 m (113), 29.v.–31.vii.2006, 27 ♂♂, MT, CJM; 1.vii.2009, 2 ♂♂, L, J. Macek lgt. Rybnický potok, 380–400 m (136), 27.vi.2005, 1 ♂, L. Rokytenka, 390 m (165), 14.vii.2009, 1 ♂. LT Brumovka, 450 m (190), 23.vii.2005, 1 ♂, L. LT Brumovka, spring areas, 430–460 m (197), 13.–31.vii.2006, 2 ♂♂, MT, CJM. LT Brumovka, 400–430 m (198), 13.vii.2006, 55 ♂♂, L. Vlára, 285 m (236), 14.vii.2006, 18 ♂♂, L. RT Vlárka, 430–470 m (243), 22.vi.2008, 3 ♂♂, L, O. Konvička lgt.; 11.viii.–8.ix.2010, 1 ♂, MT, CM. Vlárka, 290–320 m (246), 24.vii.2005, 1 ♂. Krátkovský potok, 420 m (267), 5.viii.2007, 1 ♂. Hrubár, 435 m (295), 9.v.2008, 1 larva.

Distribution and frequency in the Bílé Karpaty PLA: Common, especially in submontane streams. **Red List status:** –.

Hydropsyche pellucidula (Curtis, 1834)

Material examined. Brumovka, 340–355 m (196), 1.viii.2004, 1 ♂, L. LT Brumovka, spring areas, 430–460 m (197), 13.–31.vii.2006, 2 ♂♂, MT, CJM. LT Brumovka, 400–430 m (198), 13.vii.2006, 1 ♂; 13.vii.2006, 22 ♂♂, L. Vlára, 285 m (236), 24.vii.2005, 1 ♂; 12.vii.2006, 1 ♂; 14.vii.2006, 12 ♂♂, L; 22.vi.2008, 1 ♂, L, O. Konvička lgt.

Distribution and frequency in the Bílé Karpaty PLA: Collected only along the Vlára and Brumovka streams. **Red List status:** –.

Comments. Generally common in streams and rivers throughout the Czech Republic.

Hydropsyche saxonica McLachlan, 1884

Material examined. Vlčí potok, 440–450 m (4), 31.v.2009, 1 ♂ pupa. Kolelač, 335 m (10), 27.vi.2010, 1 ♂ pupa. Kolelač, 295 m (13), 26.vi.2010, 1 ♂ pupa. Kladenka, 390 m (22), 3.–23.vi.2008, 1 ♂, MT, CJM. Luhačovický potok, 325 m (27), 1.viii.2010, 1 ♂ pupa. Korytnice, 345 m (45), 26.vi.2010, 1 ♂. LT Velička, 435 m (82), 12.v.–3.vi.2009, 2 ♂♂, MT, CJM. Velička, 325–350 m (95), 11.iv.2008, 3 larvae. Hrubý potok, 340–370 m (101), 4.v.2009, 8 larvae. Kuželovský potok, 204–212 m (106), 4.v.2009, 2 ♂♂. Járkovec, 320–365 m (113),

Caddis flies (Trichoptera)

29.v.–31.vii.2006, 10 ♂♂, MT, CJM. Mandát, 350 m (123), 26.vi.–26.viii.2008, 2 ♂♂, MT, CJM. Sudoměřický potok, 220 m (127), 27.vii.2005, 1 ♂; 12.vii.2006, 2 ♂♂. Rybnický potok, 410–445 m (135), 12.iv.–2.viii.2007, 19 ♂♂, MT, CJM. Rybnický potok, 380–400 m (136), 27.vi.2005, 8 ♂♂, L.; 5.vii.2005, 2 ♂♂; 10.viii.–7.ix.2010, 3 ♂♂, MT, CM. Teplica, 345 m (137), 2.v.2007, 1 ♂. Zápečová, 520–530 m (141), 10.vi.2005, 1 ♂. Vlára, 345 m (146), 25.v.2006, 1 ♂. Říka, 375 m (152), 26.vi.2010, 1 ♂ pupa. Rokytenka, 390 m (165), 14.vii.2009, 2 ♂♂. Rokytenka, 330 m (172), 14.vii.2009, 1 ♂. Brumovka, 340–355 m (196), 29.iv.2011, 1 ♂ pupa. LT Brumovka, 400–430 m (198), 13.vii.2006, 3 ♂♂, L. Krátkovský potok, 360 m (274), 5.v.2009, 4 larvae. LT Žitkovský potok, spring areas, 460–520 m (275), 9.–29.v.2007, 1 ♂, MT, CJM. Žitkovský potok, 360–380 m (281), 28.vi.2008, 2 ♂♂ 3 ♂♂ pupae. Hrubár, 365–370 m (305), 28.vi.2008, 2 ♂♂; 11.viii.2008, 1 ♂. Klanečnice, 450 m (308), 4.viii.2007, 2 ♂♂.

Distribution and frequency in the Bílé Karpaty PLA: Common in submontane brooks.

Red List status: –.

Hydropsyche sitalai Döhler, 1963

Material examined. Koménka, 275 m (19), 24.ix.2009, 16 larvae. Luhačovický potok, 285 m (33), 24.v.2006, 50 larvae. Velička, 205 m (103), 4.v.2006, 10 larvae. Říka, 375 m (152), 26.vi.2010, 1 larva. Zelenský potok, 325–330 m (181), 5.v.2009, 4 larvae. Brumovka, 340–355 m (196), 1.viii.2004, 32 ♂♂, L. LT Brumovka, 400–430 m (198), 13.vii.2006, 74 ♂♂, L. Vlára, 285 m (236), 14.vii.2006, 18 ♂♂, L. Klanečnice, 345–350 m (324), 6.x.2009, 2 larvae.

Distribution and frequency in the Bílé Karpaty PLA: Recorded only sparsely in lower reaches of streams. **Red List status:** –.

Comments. Generally common and abundant in streams throughout the Czech Republic.

Family PHRYGANEIDAE

Agrypnia varia (Fabricius, 1793)

Published record. CHVOJKA & KOMZÁK (2008): Velička, 205 m (103).

Distribution and frequency in the Bílé Karpaty PLA: Only a single specimen was collected at light (at the Velička stream). **Red List status:** –.

Comments. Found locally in various types of standing waters in the Czech Republic; in Moravia, it has been ascertained only recently (CHVOJKA & KOMZÁK 2008).

Trichostegia minor (Curtis, 1834)

Material examined. LT Rakové, spring areas and brooklets, 600–670 m (184), 22.vi.–13.vii.2006, 1 ♀, MT, CJM.

Distribution and frequency in the Bílé Karpaty PLA: Caught only once in a Malaise trap. **Red List status:** –.

Comments. A generally widespread species, preferring mainly standing waters at lower altitudes.

Family BRACHYCENTRIDAE

Brachycentrus subnubilus Curtis, 1834

Material examined. Vlára, 285 m (236), 29.iv.2011, 2 ♀♀.

Distribution and frequency in the Bílé Karpaty PLA: Collected only at the lowermost site of the Vlára river. **Red List status:** –.

Comments. Generally common and very abundant in larger streams in Bohemia while it occurs only locally in Moravia.

Family LIMNEPHILIDAE

Subfamily Dicosmoecinae

Ironoquia dubia (Stephens, 1837)

Material examined. Kladenka, 245 m (26), 4.v.2009, 1 larva. Radějovka, 355–360 m (108), 9.ix.–22.x.2010, 14 ♂♂ 3 ♀♀, MT, CM. Říka, 338 m (163), 19.ix.2006, 1 ♂.

Distribution and frequency in the Bílé Karpaty PLA: Found rarely in a few streams in the area. **Red List status:** –.

Comments. Generally occurring quite frequently in various types of running and occasionally also standing waters throughout the Czech Republic.

Subfamily Drusinae

Drusus annulatus (Stephens, 1837)

Material examined. Velička, spring area, upper section, 850–900 m (58), 3.viii.2004, 19 ♂♂; 15.ix.2004, 1 ♀, M. Straka lgt.; 22.v.2005, 4 ♂♂; 4.vii.2005, 5 ♂♂ 2 ♀♀; 23.vi.2009, 13 ♂♂ 1 ♀. Velička, 700–750 m (59), 3.viii.2004, 18 ♂♂ 1 ♀; 22.v.2005, 2 ♂♂; 7.vi.2005, 5 ♂♂ 1 ♀; 28.vi.2005, 6 ♂♂ 3 ♀♀; 4.vii.2005, 10 ♂♂; 28.vii.2005, 1 ♂. LT Velička, 700 m (62), 28.vi.2005, 2 ♂♂. LT Velička, spring area, 570–620 m (64), 19.v.–7.vi.2005, 1 ♂, MT, CJM. LT Kamenný potok, 620–650 m (69), 29.vi.2005, 1 ♂. LT Velička, spring of right branch, 675 m (74), 5.vi.2009, 1 ♂ 11 larvae; 23.vi.2009, 1 ♂ 1 ♀. LT Velička, right branch, 600 m (75), 23.vi.2009, 4 ♂♂ 1 ♀. Solískový potok, 680–780 m (291), 28.vi.2008, 2 ♂♂. Zlatný potok, 550–590 m (299), 9.v.2008, 6 ♂♂ 1 ♀; 1.vi.2008, 3 ♂♂; 11.viii.2008, 1 ♂. LT Zlatný potok, 590–600 m (301), 12.vii.2007, 1 ♂ 1 ♀. Svinárský potok, 670 m (313), 29.vi.2005, 1 ♂; 4.vi.2009, 4 ♂♂. Svinárský potok, 560–590 m (314), 7.vi.–26.x.2005, 4 ♂♂ 1 ♀, MT, CJM. RT Svinárský potok, 700 m (316), 4.vi.2009, 4 ♂♂ 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Abundant in montane brooks in the southern part of the area (the Velká Javořina Mt. and Velký Lopeník Mt. massifs). **Red List status:** –.

Ecclisopteryx madida (McLachlan, 1867)

Material examined. Olšava, 450–540 m (3), 27.ix.2009, 1 ♀. Koménka, 375 m (16), 26.vi.2010, 1 larva. Koménka, 275 m (19), 31.vii.2010, 1 ♂. LT Velička, spring area, 570–620 m (64), 29.viii.–27.x.2005, 3 ♂♂ 1 ♀, MT, CJM. LT Velička, left branch, 600 m (78), 16.ix.2009, 1 ♂. LT Velička, 435 m (82), 16.ix.–21.x.2009, 1 ♂ 1 ♀, MT, CJM. LT Velička, 355–360 m (94), 24.viii.–14.ix.2009, 1 ♂ 1 ♀, MT, CJM. Velička, 325–350 m (95), 14.ix.2009, 3 ♂♂ 1 ♀, L. Radošínský potok, 540–570 m (139), 10.vi.2005, 2 larvae. LT Rakové, 500–510

Caddis flies (Trichoptera)

m (185), 27.x.2006, 1 ♀. RT Vlára, 350 m (237), 28.x.2005, 1 ♀. LT Drietomice, 435–440 m (255), 30.ix.–21.x.2007, 1 ♀, MT, BO. Krátkovský potok, 450–485 m (261), 18.x.2008, 1 ♂. Hrnčářův potok, 470–485 m (268), 18.x.2008, 1 ♀. Soliskový potok, 580–590 m (292), 10.viii.2008, 1 ♂; 19.x.2008, 3 ♂♂ 2 ♀♀. Hrubár, 435 m (295), 9.v.2008, 1 larva. LT Hrubár, 440 m (297), 9.x.2010, 1 ♂. Zlatný potok, 430–450 m (304), 19.x.2008, 1 ♀. Svinárský potok, 560–590 m (314), 9.viii.–26.x.2005, 3 ♂♂ 5 ♀♀, MT, CJM.

Distribution and frequency in the Bílé Karpaty PLA: Quite frequent in brooks of the submontane and montane zones. **Red List status:** –.

Comments. Only locally abundant in the Czech Republic.

Subfamily Limnephilinae: Limnephilini

Anabolia furcata Brauer, 1857

Material examined. Olšava, 263 m (20), 26.v.2006, 1 larva. Třešňůvka, 310 m (23), 27.ix.2009, 1 ♂. Kladenka, 245 m (26), 4.v.2009, 7 larvae. Luhačovický potok, 285 m (33), 24.v.2006, 1 larva. Velička, 325–350 m (95), 16.ix.2009, 1 ♂, L. Kuželovský potok, 204–212 m (106), 7.x.2009, 1 ♂. Kejda pond (109), 21.ix.2005, 4 ♂♂ 1 ♀, J. Ježek lgt. Radějovka, 195 m (118), 27.x.2008, 2 ♂♂ 1 ♀. Radějovka, 175 m (119), 10.iv.2008, 2 larvae. Mandát, 350 m (123), 28.x.2008, 1 ♀. Mlýnský reservoir (126), 28.x.2008, 5 ♂♂. Teplica, 345 m (137), 2.v.2007, 1 larva. Říka, 375 m (152), 27.ix.2009, 1 ♂. Lipovský potok, 370 m (158), 9.x.2010, 1 ♂. Říka, 338 m (163), 19.ix.2006, 1 ♀ 1 ♀ pupa. Vlára, 315 m (174), 26.v.2006, 2 larvae. Brumovka, 340–355 m (196), 24.x.2010, 4 ♂♂. Vlára, 285 m (236), 25.ix.2007, 4 larvae. Krátkovský potok, 360 m (274), 5.x.2009, 1 ♂. Hrubár, 365–370 m (305), 19.x.2008, 1 ♂.

Distribution and frequency in the Bílé Karpaty PLA: Common in slow-flowing sections of running water as well as in standing water up to 375 m a.s.l. **Red List status:** –.

Glyptotaelius pellucidus (Retzius, 1783)

Material examined. Bojkovice reservoir (12), 23.v.2010, 1 ♂ 1 ♀. Okluky, 350–370 m (51), 28.vi.2006, 1 ♂, J. Ježek lgt. Kazivec, 460–485 m (87), 2.viii.2004, 1 ♀. Járkovec, 320–365 m (113), 29.v.–20.vi.2006, 1 ♀; 21.viii.–18.ix.2006, 1 ♂ 1 ♀, both MT, CJM. Pond above Lučina reservoir (114), 6.v.2009, 1 ♀. Zápechová, 520–530 m (141), 10.vi.2005, 1 ♂. Žitkovský potok, 360–380 m (281), 5.x.2009, 1 ♂. Hrubár, 365–370 m (305), 12.vii.2007, 1 ♂; 19.x.2008, 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Found in slow-flowing parts of several streams as well as in some standing waters. **Red List status:** –.

Grammotaulius nigropunctatus (Retzius, 1783)

Material examined. Velička, spring area, upper section, 850–900 m (58), 6.–24.viii.2009, 1 ♀, MT, CJM. Velička, 700–750 m (59), 4.vii.2005, 1 ♀. LT Velička, spring area, 570–620 m (64), 19.v.–7.vi.2005, 1 ♂ 1 ♀, MT, CJM. Myjava, 580–650 m (130), 14.vi.2010, 1 ♂. Svinárský potok, 560–590 m (314), 7.vii.2005, 1 ♂. Svinárský potok, 460 m (318), 7.vii.2005, 1 ♂.

Distribution and frequency in the Bílé Karpaty PLA: Inhabiting various types of aquatic habitats but occurring locally; it was found only in the Velká Javořina Mt. massif. **Red List status:** –.

***Limnephilus affinis* Curtis, 1834**

Material examined. Velička, spring area, upper section, 850–900 m (58), 3.–23.vi.2009, 1 ♂; 24.viii.–21.x.2009, 4 ♀♀, both MT, CJM. LT Velička, spring area, 570–620 m (64), 27.iv.–19.v.2005, 1 ♂; 29.viii.–22.ix.2005, 1 ♀, both MT, CJM. Bukový potok, spring area, 600 m (226), 11.viii.–8.ix.2010, 1 ♂, MT, CM. RT Klanečnice, 460–500 m (312), 5.–25.v.2010, 1 ♂ 1 ♀; 9.ix.–22.x.2010, 1 ♀, both MT, CM.

Distribution and frequency in the Bílé Karpaty PLA: Occurring infrequently in both standing and running waters; also sporadically caught with Malaise traps. **Red List status:** –.

***Limnephilus auricula* Curtis, 1834**

Material examined. Lom Rasová NM (14), 21.v.2006, 1 ♂; 8.v.2008, 1 ♂. Pivný potok, 390 m (41), 9.x.2010, 1 ♀. Velička, spring area, upper section, 850–900 m (58), 3.–23.vi.2009, 1 ♂, MT, CJM. RT Kazivec, spring area, 505 m (86), 27.vi.2009, 1 ♀. LT Velička, 355–360 m (94), 14.ix.–22.x.2009, 1 ♀, MT, CJM. Radějovka, 355–360 m (108), 5.v.–22.x.2010, 105 ♂♂ 57 ♀♀, MT, CM. Rybnický potok, 380–400 m (136), 7.ix.–21.x.2010, 2 ♀♀, MT, CM. Vlára, 345 m (146), 25.v.2006, 1 ♂. Lukšinka, 400–430 m (153), 9.x.2010, 1 ♀. Lukšinka, 375 m (155), 9.x.2010, 1 ♀. Wetland at Lipovský potok, 365 m (159), 23.v.2010, 2 ♀♀; 9.x.2010, 1 ♂ 1 ♀. LT Brumovka, spring areas, 430–460 m (197), 19.vii.–23.viii.2006, 1 ♀, MT, BO. Hrušovka, wetland, 520 m (204), 10.vi.2005, 1 ♂. Skalka quarry, pool (273), 22.ix.2007, 1 ♀, P. Kment et I. Malenovský lgt.

Distribution and frequency in the Bílé Karpaty PLA: Common in various aquatic habitats (springs, brooks, temporary pools, wetlands etc.). **Red List status:** –.

***Limnephilus bipunctatus* Curtis, 1834**

Material examined. Velička, spring area, upper section, 850–900 m (58), 23.vi.–15.vii.2009, 1 ♀, MT, CJM. Radějovka, 355–360 m (108), 9.ix.–22.x.2010, 1 ♂, MT, CM. Wetland at Lipovský potok, 365 m (159), 9.x.2010, 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Only rarely collected in the area. **Red List status:** –.

Comments. In the Czech Republic, occurring largely in standing waters, sometimes abundantly.

***Limnephilus decipiens* (Kolenati, 1848)**

Material examined. Velička, spring area, upper section, 850–900 m (58), 3.vi.–6.viii.2009, 3 ♂♂, MT, CJM. Zahrady pod Hájem NNR, 380 m (102), 12.v.–2.vi.2009, 1 ♂, MT, CJM. Svinárský potok, 560–590 m (314), 29.viii.–20.ix.2005, 1 ♂, MT, CJM.

Distribution and frequency in the Bílé Karpaty PLA: Collected only sporadically with the Malaise traps. **Red List status:** –.

Comments. A generally common species in both standing and running waters in the Czech Republic.

***Limnephilus extricatus* McLachlan, 1865**

Material examined. Kladenka, 390 m (22), 3.–23.vi.2008, 1 ♂ 1 ♀, MT, CJM. Rybnický potok, 380–400 m (136), 10.viii.–7.ix.2010, 1 ♂, MT, CM. Rakové, 440–450 m (186), 11.vi.2005, 1 ♀. Brumovka, 340–355 m (196), 1.viii.2004, 1 ♀, L. RT Klanečnice, 460–500 m (312), 25.v.–15.vi.2010, 1 ♀, MT, CM.

Distribution and frequency in the Bílé Karpaty PLA: Generally common in various aquatic habitats but only few specimens were collected in the area. **Red List status:** –.

***Limnephilus flavicornis* (Fabricius, 1787)**

Material examined. Velička, spring area, upper section, 850–900 m (58), 6.–24.viii.2009, 1 ♂, MT, CJM.

Distribution and frequency in the Bílé Karpaty PLA: Collected only once in a Malaise trap. **Red List status:** –.

Comments. Occurring largely in standing or slow-flowing waters overgrown by vegetation at lower altitudes in the Czech Republic.

***Limnephilus fuscicornis* Rambur, 1842 (VU)**

Material examined. Luhačovický potok, 285 m (33), 23.v.2010, 1 ♀; 1.viii.2010, 1 ♀. Říka, 338 m (163), 25.v.2006, 1 ♂. LT Brumovka, 450 m (190), 23.vii.2005, 1 ♂, L.

Distribution and frequency in the Bílé Karpaty PLA: Rare in streams. **Red List status:** VU.

Comments. In the Czech Republic, found infrequently in streams and rivers with gravelly and sandy substrata.

***Limnephilus griseus* (Linnaeus, 1758)**

Material examined. Bukový potok, spring area, 600 m (226), 5.–24.v.2010, 1 ♂, MT, CM. RT Klanečnice, 460–500 m (312), 5.–25.v.2010, 1 ♀, MT, CM.

Distribution and frequency in the Bílé Karpaty PLA: Only two specimens were caught in Malaise traps. **Red List status:** –.

Comments. *Limnephilus griseus* is generally a very common species in the Czech Republic.

***Limnephilus hirsutus* (Pictet, 1834)**

Material examined. Járkovec, 320–365 m (113), 10.–31.vii.2006, 1 ♂, MT, CJM. LT Žitkovský potok, spring areas, 460–520 m (275), 21.viii.–12.ix.2007, 1 ♀, MT, CJM. LT Svinárský potok, pool (323), 2.vi.2007, 1 ♂.

Distribution and frequency in the Bílé Karpaty PLA: Sporadically found in various types of aquatic habitats. **Red List status:** –.

***Limnephilus ignavus* McLachlan, 1865**

Material examined. LT Olšava, spring area, 605 m (1), 27.ix.2009, 1 ♀. Kladenka, 390 m (22), 23.ix.–29.x.2008, 1 ♀, MT, CJM; 29.x.2008, 1 ♀. RT Kazivec, spring area, 505 m (86), 27.vi.2009, 1 ♂. Rybnický potok, 380–400 m (136), 7.ix.–21.x.2010, 1 ♂ 2 ♀♀, MT, CM. Wetland at Lipovský potok, 365 m (159), 9.x.2010, 1 ♂. LT Drietomice, spring, 685 m (248), 8.vii.2010, 1 ♀. RT Krátkovský potok, spring brook, 585 m (259), 10.viii.2008, 1 ♂. Žitkovský potok, 360–380 m (281), 5.x.2009, 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Infrequently recorded from spring areas, brooklets, marshes, and pools. **Red List status:** –.

***Limnephilus sparsus* Curtis, 1834**

Material examined. Kladenka, 390 m (22), 25.viii.–29.x.2008, 3 ♀♀, MT, CJM. LT Petrůvka, spring areas, 400 m (30), 25.viii.–29.x.2008, 2 ♀♀, MT, CJM. Velička, spring area, upper section, 850–900 m (58), 23.vi.–17.ix.2009, 2 ♂♂ 1 ♀, MT, CJM. Kazivec, 460–485 m (87), 27.vi.2009, 1 ♂. LT Velička, 355–360 m (94), 14.ix.–22.x.2009, 3 ♀♀, MT, CJM. Radějovka, 355–360 m (108), 5.v.–15.vi.2010, 1 ♂ 4 ♀♀; 12.viii.–22.x.2010, 10 ♂♂ 2 ♀♀, both MT, CM. Járkovec, 320–365 m (113), 21.viii.–23.x.2006, 2 ♀♀, MT, CJM; 1.vi.2009, 1 ♂. Mandát, 350 m (123), 24.viii.–24.ix.2008, 2 ♀♀, MT, CJM. Rybnický potok, 380–400 m (136), 7.ix.–21.x.2010, 1 ♀, MT, CM. Teplica, 345 m (137), 19.ix.2006, 1 ♂. Říka, 430 m (151), 31.x.2008, 1 ♂. Wetland at Lipovský potok, 365 m (159), 23.v.2010, 4 ♂♂ 1 ♀; 9.x.2010, 1 ♂. LT Rakové, spring areas and brooklets, 600–670 m (184), 22.vi.–13.vii.2006, 1 ♀, MT, CJM. LT Brumovka, 450 m (190), 23.vii.2005, 1 ♀, L. LT Brumovka, spring areas, 430–460 m (197), 25.vi.–23.viii.2006, 2 ♀♀, MT, BO; 13.–31.vii.2006, 1 ♀, MT, CJM. Hrušovka, wetland, 520 m (204), 10.vi.2005, 1 ♂ 1 ♀. RT Vlárka, 430–470 m (243), 16.vi.–5.vii.2010, 1 ♀, MT, CM. LT Drietomice, wetland and brooklet, 438 m (256), 29.iv.–17.v.2007, 1 ♂ 1 ♀, MT, BO; 30.ix.–21.x.2007, 1 ♀, MT, BO. LT Žitkovský potok, spring areas, 460–520 m (275), 23.viii.–7.xi.2006, 1 ♂ 1 ♀, MT, BO. LT Hrubár, spring area, 650–660 m (287), 30.ix.–22.x.2007, 1 ♂, MT, BO. RT Klanečnice, 460–500 m (312), 12.viii.–22.x.2010, 1 ♂ 1 ♀, MT, CM.

Distribution and frequency in the Bílé Karpaty PLA: Common and abundant throughout the area. **Red List status:** –.

***Limnephilus vittatus* (Fabricius, 1798)**

Material examined. Okluky, 330 m (51), 15.x.1958, 1 ♂, S. Obr lgt.

Distribution and frequency in the Bílé Karpaty PLA: Known only from an old record. **Red List status:** –.

Comments. Although it is generally common in various types of aquatic habitats in the Czech Republic, it has not been ascertained in the Bílé Karpaty PLA in recent years.

Subfamily Limnephilinae: Chaetopterygini

***Annitella obscurata* (McLachlan, 1876)**

Material examined. Vlára, 285 m (236), 28.x.2005, 1 ♂.

Distribution and frequency in the Bílé Karpaty PLA: Known from a single record from the lowermost reach of the Vlára river. **Red List status:** –.

Comments. A generally common species in streams in the Czech Republic. It was recorded also in the Brumovka stream above Valašské Klobouky (420 m a.s.l., 16.x.2006,

1 ♂), close to the border of the PLA. We assume that it may be more frequent in streams in the area.

Chaetopteryx fusca Brauer, 1857

Published records. KŘOUPALOVÁ *et al.* (2011): LT Brumovka, spring areas, 430–460 m (197).

Additional material examined. Olšava, 450–540 m (3), 12.x.2007, 1 ♂, J. Bojková lgt. Kolelač, 400 m (9), 30.x.2008, 1 ♂. Kolelač, 335 m (10), 8.x.2008, 3 ♂♂ 2 ♀♀. Kladenka, 390 m (22), 29.x.2008, 2 ♂♂ 1 ♀. Třešňůvka, 310 m (23), 27.ix.2009, 2 ♂♂ pupae 3 ♀♀ pupae. LT Luhačovický potok, 330 m (29), 9.x.2010, 1 ♀ pupa. Luhačovický potok, 285 m (33), 9.x.2010, 1 ♀. Gáborka, 280 m (35), 9.x.2010, 1 ♂ 1 ♀ pupa. Nivnička, 480 m (38), 9.x.2010, 1 ♀ pupa. Pivný potok, 390 m (41), 9.x.2010, 1 ♂ pupa 1 ♀ pupa. Lubná, 270–300 m (44), 13.x.2007, 1 ♀. Korytnice, 345 m (45), 9.x.2010, 1 ♂ pupa 1 ♀ pupa. Okluky, 350–370 m (51), 28.ix.2009, 1 ♀ pupa. Velička, 530–540 m (65), 27.x.2005, 1 ♀. LT Kamenný potok, 620–650 m (69), 28.x.2005, 1 ♂ 1 ♀. Velička, 325–350 m (95), 8.x.2008, 3 ♂♂ 3 ♀♀. Hrubý potok, 340–370 m (101), 7.x.2009, 1 ♂ pupa. Járkovec, 420 m (111), 24.x.2006, 1 ♂ 2 ♀♀. LT Radějovka, 290 m (116), 24.x.2006, 1 ♂ 1 ♀. Radějovka, 195 m (118), 27.x.2008, 9 ♂♂ 7 ♀♀. Mandát, 350 m (123), 28.x.2008, 4 ♂♂. Rybnický potok, 380–400 m (136), 30.x.2007, 2 ♀♀. Říka, 375 m (152), 27.ix.2009, 1 ♀. Lukšinka, 400–430 m (153), 31.x.2008, 3 ♂♂ 2 ♀♀; 9.x.2010, 1 ♀. RT Lukšinka, 420–435 m (154), 31.x.2008, 1 ♂ 1 ♀. Lukšinka, 375 m (155), 9.x.2010, 1 ♂. Lipovský potok, 370 m (158), 9.x.2010, 2 ♂♂ 1 ♀. Rokytenka, 450–460 m (164), 30.x.2008, 1 ♂ 1 ♀. Zelenský potok, 325–330 m (181), 25.ix.2009, 1 ♂ pupa 1 ♀ pupa. Rakové, 440–450 m (186), 16.x.2006, 1 ♂ 1 ♀. LT Brumovka, spring areas and brooklets, 530–570 m (189), 27.x.2006, 1 ♀. LT Brumovka, 450 m (191), 30.x.2005, 1 ♀. Dešňanský potok, 380 m (195), 15.x.2006, 1 ♀. Brumovka, 340–355 m (196), 24.x.2010, 1 ♂ 1 ♀. LT Brumovka, 400–430 m (198), 25.x.2006, 2 ♀♀. Nedašovka, 450–470 m (202), 29.x.2005, 17 ♂♂ 1 ♀. Hlubočský potok, 440–460 m (224), 23.x.2010, 1 ♂ 1 ♀. Uhlisko, 420 m (231), 26.x.2006, 4 ♂♂ 1 ♀. Vlára, 285 m (236), 28.x.2005, 1 ♂ 1 ♀; 9.x.2008, 1 ♂. Vlárka, 290–320 m (246), 28.x.2005, 4 ♂♂ 1 ♀. LT Drietomice, spring areas and brooks, 550–600 m (251), 2.xi.2007, 1 ♂. LT Drietomice, 435–440 m (255), 14.x.2007, 1 ♀. Drietomice, 360–390 m (258), 2.xi.2007, 6 ♂♂ 3 ♀♀; 14.x.2007, 1 ♂; 6.x.2009, 1 ♀. Krátkovský potok, 420 m (267), 14.x.2007, 1 ♂ 1 ♀. Hrnčarův potok, 470–485 m (268), 18.x.2008, 1 ♂ 2 ♀♀. Krátkovský potok, 360 m (274), 2.xi.2007, 11 ♂♂ 9 ♀♀; 5.x.2009, 2 ♂♂ pupae 4 ♀♀ pupae. Žitkovský potok, 440–450 m (276), 31.x.2007, 1 ♂ 1 ♀. Hrubár, 435 m (295), 9.x.2010, 2 ♂♂ 1 ♀. LT Hrubár, 440 m (297), 9.x.2010, 1 ♂. LT Zlatný potok, spring area, 470 m (303), 1.xi.2007, 1 ♂ 1 ♀. Zlatný potok, 430–450 m (304), 1.xi.2007, 1 ♂ 1 ♀. Hrubár, 365–370 m (305), 1.xi.2007, 12 ♂♂ 5 ♀♀. Svinárský potok, 560–590 m (314), 28.x.2005, 1 ♂ 2 ♀♀. Svinárský potok, 460 m (318), 28.x.2005, 1 ♂ 1 ♀. Svinárský potok, 390–420 m (320), 4.x.2005, 1 ♂. Klanečnice, 345–350 m (324), 6.x.2009, 1 ♂ 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Very common and abundant in running waters throughout the area up to 650 m a.s.l. **Red List status:** –.

Comments. Recorded from the Czech Republic only recently (KOMZÁK & CHOJKA 2005); its distribution in the country is apparently restricted to eastern Moravia.

Chaetopteryx major McLachlan, 1876

Published records. KŘOUPALOVÁ *et al.* (2011): LT Brumovka, spring areas, 430–460 m (197).

Additional material examined. Kladenka, 390 m (22), 25.viii.–29.x.2008, 2 ♂♂ 2 ♀♀, MT, CJM; 29.x.2008, 2 ♀♀. Nivnička, 480 m (38), 9.x.2010, 1 ♀. Okluky, 350–370 m (51), 28.ix.2009, 3 ♂♂ 2 ♀♀. Velička, 700–750 m (59), 27.x.2005, 1 ♀. LT Kamenný potok, 620–650 m (69), 26.x.2005, 1 ♂. Rybnický potok, 410–445 m (135), 30.x.2007, 1 ♀. RT Lukšinka, 420–435 m (154), 31.x.2008, 1 ♂. LT Kochavecký potok, 580 m (177), 30.x.2008, 1 ♀. LT Rakové, spring areas and brooklets, 600–670 m (184), 16.x.2006, 1 ♂; 20.ix.–27.x.2006, 3 ♂♂, MT, CJM; 27.x.2006, 1 ♂. LT Rakové, 500–510 m (185), 27.x.2006, 1 ♂ 2 ♀♀. LT Brumovka, spring areas and brooklets, 530–570 m (189), 30.x.2005, 2 ♀♀; 18.ix.2006, 1 ♀; 15.x.2006, 1 ♂ 1 ♀; 27.x.2006, 2 ♀♀. LT Brumovka, 450 m (191), 30.x.2005, 3 ♂♂ 4 ♀♀. LT Brumovka, spring areas, 430–460

m (197), 20.ix.–25.x.2006, 1 ♂, MT, CJM. LT Brumovka, 400–430 m (198), 15.x.2006, 1 ♂; 25.x.2006, 1 ♀. Nedašovka, 450–470 m (202), 29.x.2005, 1 ♂. Bukový potok, 450 m (228), 26.x.2006, 1 ♀. Uhlisko, 420 m (231), 26.x.2006, 2 ♀♀. RT Vlárka, 430–470 m (243), 28.x.2005, 1 ♀; 8.ix.–23.x.2010, 1 ♂, MT, CM. LT Drietomice, spring areas and brooks, 550–600 m (251), 2.xi.2007, 1 ♀. Trstná, 450–480 m (264), 18.x.2008, 3 ♀♀. LT Žitkovský potok, spring areas, 460–520 m (275), 2.–31.x.2007, 1 ♂, MT, CJM. Soliskový potok, 680–780 m (291), 19.x.2008, 1 ♀. Soliskový potok, 580–590 m (292), 19.x.2008, 1 ♀. LT Zlatný potok, 590–600 m (301), 19.x.2008, 1 ♀. Svinárský potok, 670 m (313), 26.x.2005, 1 ♂. Svinárský potok, 560–590 m (314), 20.ix.–26.x.2005, 2 ♂♂, MT, CJM; 28.x.2005, 3 ♂♂. RT Svinárský potok, 700 m (316), 26.x.2005, 1 ♀; 28.x.2005, 3 ♂♂. Svinárský potok, 460 m (318), 28.x.2005, 2 ♀♀.

Distribution and frequency in the Bílé Karpaty PLA: Quite common in montane and submontane streams. **Red List status:** –.

Chaetopteryx polonica Dziędzielewicz, 1889 (VU)

Material examined. Křekovský potok, springs, 580 m (147), 24.x.2010, 2 ♂♂ 1 ♀. LT Rakové, spring areas and brooklets, 600–670 m (184), 16.x.2006, 5 ♂♂ 3 ♀♀; 27.x.2006, 1 ♂. LT Rakové, 500–510 m (185), 27.x.2006, 1 ♂ 2 ♀♀. LT Brumovka, spring areas and brooklets, 530–570 m (189), 30.x.2005, 1 ♀. LT Brumovka, 450 m (191), 30.x.2005, 1 ♂ 1 ♀. RT Vlára, 350 m (237), 28.x.2005, 1 ♀. LT Drietomice, spring areas and brooks, 550–600 m (251), 2.xi.2007, 1 ♀. Soliskový potok, 680–780 m (291), 19.x.2008, 5 ♂♂ 2 ♀♀. LT Hrubár, spring brook, 705 m (296), 19.x.2008, 3 ♂♂ 3 ♀♀. Zlatný potok, 550–590 m (299), 1.xi.2007, 6 ♂♂ 1 ♀; 19.x.2008, 1 ♂. LT Zlatný potok, 590–600 m (301), 1.xi.2007, 6 ♂♂ 1 ♀; 19.x.2008, 4 ♂♂ 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Infrequently recorded in spring areas and brooks in the montane zone. **Red List status:** VU.

Comments. A Carpathian species, known in the Czech Republic only from spring brooklets and brooks at higher altitudes in eastern Moravia (KOMZÁK *et al.* 2006).

Subfamily Limnephilinae: Stenophylacini

Halesus digitatus (Schrank, 1781)

Material examined. Olšava, 350–380 m (8), 15.x.1958, 1 ♀, S. Obr lgt. Koménka, 275 m (19), 31.vii.2010, 1 ♂ pupa. Okluky, 350–370 m (51), 28.ix.2009, 1 ♀. Velička, spring area, upper section, 850–900 m (58), 6.–24.viii.2009, 1 ♂, MT, CJM. Velička, 470–480 m (68), 27.x.2005, 1 ♂ 2 ♀♀. Velička, 400–420 m (83), 27.x.2005, 6 ♂♂ 2 ♀♀, L. Velička, 325–350 m (95), 27.x.2005, 1 ♀; 16.ix.2009, 7 ♂♂ 2 ♀♀, L. Hrubý potok, 340–370 m (101), 5.x.2009, 1 ♀, L. Radějovka, 270 m (117), 24.x.2006, 1 ♀. Radějovka, 195 m (118), 27.x.2008, 1 ♀. Mandát, 350 m (123), 28.x.2008, 1 ♂ 1 ♀. Mandát, 265 m (125), 28.x.2008, 1 ♂ 1 ♀. Rybnický potok, 380–400 m (136), 7.ix.–21.x.2010, 1 ♂ 1 ♀, MT, CM. Říka, 375 m (152), 27.ix.2009, 1 ♂. Rakové, 440–450 m (186), 16.x.2006, 1 ♀. Brumovka, 340–355 m (196), 30.x.2005, 1 ♀; 5.x.2006, 1 ♀. Nedašovka, 450–470 m (202), 29.x.2005, 1 ♂. Hluboký potok, 400–420 m (210), 29.x.2005, 2 ♂♂. Vlára, 285 m (236), 9.x.2008, 1 ♀. Vlárka, 290–320 m (246), 23.x.2010, 1 ♀. LT Drietomice, 435–440 m (255), 2.xi.2007, 2 ♀♀. Trstná, 450–480 m (264), 18.x.2008, 1 ♂. Krátkovský potok, 420 m (267), 14.x.2007, 1 ♀. Žitkovský potok, 440–450 m (276), 25.ix.2004, 1 ♀, M. Horsák lgt.; 31.x.2007, 1 ♀. Hrubár, 365–370 m (305), 19.x.2008, 1 ♂. Svinárský potok, 390–420 m (320), 26.x.2005, 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: A common species in streams in the submontane and colline zones. **Red List status:** –.

***Halesus radiatus* (Curtis, 1834)**

Material examined. Koménka, 275 m (19), 27.ix.2009, 1 ♂, L. Velička, 470–480 m (68), 3.x.2005, 3 ♀♀, L. Sviborka, 350–355 m (145), 18.ix.2006, 1 ♂ pupa. LT Drietomice, 435–440 m (255), 2.xi.2007, 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Known from only a few records in submontane and colline streams. **Red List status:** –.

***Halesus tessellatus* (Rambur, 1842)**

Material examined. Hrubý potok, 340–370 m (101), 5.x.2009, 1 ♀, L.

Distribution and frequency in the Bílé Karpaty PLA: Known from a single locality. **Red List status:** –.

Comments. A generally common species in streams at medium and lower altitudes in the Czech Republic.

***Melampophylax nepos* (McLachlan, 1880)**

Material examined. Olšava, 450–540 m (3), 12.x.2007, 1 ♀, J. Bojková lgt. Rokytenka, 450–460 m (164), 30.x.2008, 1 ♂ 2 ♀♀. Uhlisko, right branch, 570 m (230), 26.x.2006, 1 ♀. Zlatný potok, 550–590 m (299), 19.x.2008, 1 ♀. Svinárský potok, 670 m (313), 26.x.2005, 1 ♀. Svinárský potok, 560–590 m (314), 28.x.2005, 1 ♂. RT Svinárský potok, 700 m (316), 26.x.2005, 3 ♀♀. Svinárský potok, 460 m (318), 28.x.2005, 1 ♂.

Distribution and frequency in the Bílé Karpaty PLA: A montane species, confined to brooks at higher altitudes. **Red List status:** –.

***Micropterna lateralis* (Stephens, 1837)**

Material examined. LT Luhačovický potok, 330 m (29), 23.v.2010, 1 ♂. Korytnice, 290 m (46), 22.v.2010, 1 ♂. Bozatiný potok, 350 m (57), 6.vi.2005, 1 ♂. LT Velička, spring area, 570–620 m (64), 7.–28.vi.2005, 1 ♂, MT, CJM. LT Velička, 435 m (82), 3.–22.vi.2009, 1 ♂, MT, CJM. RT Velička, 450 m (84), 12.v.–15.vii.2009, 4 ♂♂ 3 ♀♀, MT, CJM. LT Kazivec, 400 m (89), 1.vii.2005, 1 ♂. LT Velička, 355–360 m (94), 15.vii.–5.viii.2009, 1 ♀, MT, CJM. Radějovka, 355–360 m (108), 5.v.–12.viii.2010, 38 ♂♂ 19 ♀♀, MT, CM. Járkovec, 320–365 m (113), 29.v.–10.vii.2006, 3 ♂♂ 1 ♀, MT, CJM. Mandát, 350 m (123), 22.iv.–26.vi.2008, 2 ♂♂ 1 ♀, MT, CJM. RT Mandát, spring area, 400–415 m (124), 4.–26.vi.2008, 1 ♀, MT, CJM. Rybnický potok, 410–445 m (135), 28.v.–9.vii.2007, 3 ♂♂, MT, CJM. Rybnický potok, 380–400 m (136), 27.vi.2005, 2 ♀♀, L; 14.vi.–13.vii.2010, 1 ♂ 2 ♀♀, MT, CM. Bukový potok, spring area, 600 m (226), 16.vi.–4.vii.2010, 1 ♂, MT, CM. RT Vlárka, spring areas, 460–550 m (244), 22.vi.2008, 2 ♀♀, L, O. Konvička lgt. LT Drietomice, wetland and brooklet, 438 m (256), 17.v.–28.vi. 2007, 3 ♂♂, MT, BO. LT Žitkovský potok, spring areas, 460–520 m (275), 29.v.–19.vi.2007, 2 ♂♂, MT, CJM. RT Hrubár, spring area, 640–650 m (288), 5.vi.–19.vii.2006, 3 ♂♂, MT, BO. RT Klanečnice, 460–500 m (312), 25.v.–12.viii.2010, 11 ♂♂ 10 ♀♀, MT, CM.

Distribution and frequency in the Bílé Karpaty PLA: Common and sometimes also abundant in various flow wetlands. **Red List status:** –.

***Micropterna nycterobia* McLachlan, 1875**

Material examined. Teplica, 345 m (137), 25.ix.2007, 1 ♀ pupa. Vlára, 285 m (236), 26.x.2006, 1 ♂. RT Vlárka, spring areas, 460–550 m (244), 22.vi.2008, 1 ♂, L, O. Konvička lgt. Svinárský potok, 560–590 m (314), 7.–29.vi.2005, 1 ♂, MT, CJM.

Distribution and frequency in the Bílé Karpaty PLA: Locally occurring in springs and brooks. **Red List status:** –.

***Micropterna sequax* McLachlan, 1875**

Material examined. LT Velička, spring area, 570–620 m (64), 28.vi.–29.viii.2005, 1 ♂ 1 ♀, MT, CJM. Velička, 470–480 m (68), 3.x.2005, 1 ♂, L. RT Velička, 450 m (84), 22.vi.–4.viii.2009, 1 ♂ 1 ♀, MT, CJM. Járkovec, 320–365 m (113), 31.vii.–18.ix.2006, 2 ♂♂, MT, CJM. LT Brumovka, 450 m (190), 23.vii.2005, 2 ♂♂, L. Zlatný potok, 430–450 m (304), 11.viii.2008, 1 ♀. RT Klanečnice, 460–500 m (312), 9.vii.–12.viii.2010, 1 ♂, MT, CM. Svinárský potok, 560–590 m (314), 9.viii.–26.x.2005, 1 ♂ 1 ♀, MT, CJM.

Distribution and frequency in the Bílé Karpaty PLA: Quite frequent in various flow wetlands. **Red List status:** –.

***Micropterna testacea* (Gmelin, 1789)**

Material examined. Lom Rasová NM (14), 31.v.2008, 1 ♂, L. Svinárský potok, 560–590 m (314), 19.v.–7.vi.2005, 1 ♂, MT, CJM.

Distribution and frequency in the Bílé Karpaty PLA: Known from only two specimens collected at two localities. **Red List status:** –.

Comments. A widely distributed but local species in the Czech Republic.

***Parachiona picicornis* (Pictet, 1834)**

Material examined. Velička, 700–750 m (59), 22.v.2005, 1 ♂. LT Velička, spring area, 570–620 m (64), 27.iv.–19.v.2005, 1 ♀, MT, CJM; 22.v.2005, 1 ♂. Velička, 530–540 m (65), 22.v.2005, 2 ♂♂. LT Václavský potok, spring area, 490 m (162), 23.v.2010, 1 ♂. Rakové, springfed brook, 680 m (182), 20.v.2005, 1 ♂ 1 ♀. LT Rakové, spring areas and brooklets, 600–670 m (184), 20.v.2006, 2 ♂♂ 1 ♀; 11.v.–6.vi.2006, 2 ♂♂, MT, CJM. LT Brumovka, spring areas and brooklets, 530–570 m (189), 22.v.1999, 1 ♂, P. Kment lgt.; 20.iv.2006, 5 ♂♂ 1 ♀. RT Nedašovka, 540 m (201), 20.v.2005, 2 ♂♂ 1 ♀. LT Nedašovka, 600–610 m (205), 21.v.2006, 3 ♂♂. Bukový potok, spring area, 600 m (226), 5.–24.v.2010, 1 ♂, MT, CM. LT Hrubár, spring brook, 655–660 m (290), 9.v.2008, 1 ♂. Svinárský potok, 560–590 m (314), 19.v.–7.vi.2005, 1 ♀, MT, CJM.

Distribution and frequency in the Bílé Karpaty PLA: Common and generally abundant in spring areas (it may be under-recorded due to its early flight period). **Red List status:** –.

***Potamophylax carpathicus* (Dziędzielewicz, 1912)**

(VU)

Published record. CHVOJKA & NOVÁK (2001): Vápenky W Velká Javorina Mt. (cannot be clearly assigned to any locality listed in this paper).

Additional material examined. Velička, spring area, upper section, 850–900 m (58), 22.v.2005, 1 ♂; 28.iv.–7.vi.2005, 2 ♂♂, MT, CJM; 7.vi.2005, 1 ♀. Velička, 700–750 m (59), 22.v.2005, 1 ♂. LT Velička, spring

Caddis flies (Trichoptera)

area, 570–620 m (64), 22.v.2005, 2 ♂♂ 4 ♀♀; 27.iv.–7.vi.2005, 9 ♂♂ 6 ♀♀, MT, CJM. Rakové, springfed brook, 680 m (182), 20.v.2006, 1 ♀. LT Rakové, spring areas and brooklets, 600–670 m (184), 11.v.–6.vi.2006, 1 ♂, MT, CJM; 6.vi.2006, 1 ♀, J. Ježek lgt.; 17.vi.2006, 1 ♀. RT Nedašovka, 540 m (201), 20.v.2005, 3 ♀♀. LT Nedašovka, 600–610 m (205), 21.v.2006, 2 ♀♀. Uhlisko, right branch, 570 m (230), 26.x.2006, 15 larvae (2 ♂♂ ex larvae 29.–31.iii.2007). Svinárský potok, 670 m (313), 7.vi.2005, 2 ♀♀; 4.vi.2009, 1 ♀. Svinárský potok, 560–590 m (314), 19.v.–29.vi.2005, 17 ♂♂ 11 ♀♀, MT, CJM. RT Svinárský potok, 700 m (316), 7.vi.2005, 1 ♀; 4.vi.2009, 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Quite common in springs and brooks at higher altitudes. **Red List status:** VU.

Comments. Endemic to the Western and Eastern Carpathians (SZCZĘSNY 1986); it was reported from the Czech Republic only recently, based on a single specimen (CHVOJKA & NOVÁK 2001). It has turned out in between that it is relatively frequent in the Moravian Carpathians (the Bílé Karpaty PLA and the Beskydy PLA).

Potamophylax cingulatus (Stephens, 1837)

Material examined. Koménka, 275 m (19), 27.ix.2009, 1 ♂ (ssp. *alpinus*) 1 ♀, L. Velička, spring area, upper section, 850–900 m (58), 15.ix.2004, 1 ♀, M. Straka lgt. Velička, 470–480 m (68), 3.x.2005, 3 ♀♀, L. Velička, 325–350 m (95), 16.ix.2009, 3 ♂♂ (ssp. *alpinus* x *depilis*) 4 ♀♀, L. Křekovský potok, 440–500 m (148), 24.x.2010, 1 ♀. Uhlisko, 420 m (231), 26.x.2006, 1 ♀. Vlára, 285 m (236), 26.x.2006, 1 ♂ (ssp. *alpinus*). Drietomice, 360–390 m (258), 2.xi.2007, 1 ♀. Hrnčarův potok, 470–485 m (268), 18.x.2008, 5 ♀♀. Krátkovský potok, 360 m (274), 5.x.2009, 1 ♀. Žitkovský potok, 360–380 m (281), 31.x.2007, 1 ♂ (ssp. *depilis*). Hrubár, 435 m (295), 9.x.2010, 1 ♀. Svinárský potok, 460 m (318), 28.x.2005, 1 ♀. Svinárský potok, 390–420 m (320), 26.x.2005, 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Common in streams throughout the area. **Red List status:** –.

Comments. *Potamophylax cingulatus* (Stephens, 1837) is widely distributed throughout Europe. Several subspecies have been recognized (MORETTI *et al.* 1994), three of which occur in the Czech Republic: *P. c. cingulatus* in northern Bohemia and north-western Moravia, *P. c. alpinus* Tobias, 1994 in southern parts of Bohemia and Moravia, and *P. c. depilis* Szczęsny, 1994 in eastern Moravia (CHVOJKA & NOVÁK 2001). The contact zone between *P. c. alpinus* and *P. c. depilis* passes through the Bílé Karpaty Mts. and both subspecies were recognized here. In the Velička stream (site no. 95), even a hybrid population was found. In addition to typical males of *P. c. alpinus*, intermediate male specimens with reduced number of basal setae on parameres were collected (e.g. specimens with unequal parameres with a single/without seta, or specimens with each paramere bearing a single seta). Females of the individual subspecies of *P. cingulatus* cannot be distinguished.

Potamophylax luctuosus (Piller et Mitterpacher, 1783)

Material examined. Vlára, 345 m (146), 25.v.2006, 1 ♂ pupa. Vlára, 285 m (236), 14.vii.2006, 2 ♂♂, L.

Distribution and frequency in the Bílé Karpaty PLA: Collected only exceptionally in the Bílé Karpaty PLA. **Red List status:** –.

Comments. Generally common in streams throughout the Czech Republic.

***Potamophylax nigricornis* (Pictet, 1834)**

Published records. KŘOUPALOVÁ *et al.* (2011): LT Brumovka, spring areas, 430–460 m (197).

Additional material examined. Kladenka, 390 m (22), 4.–25.viii.2008, 1 ♂, MT, CJM. LT Petrůvka, spring areas, 400 m (30), 23.vi.–16.vii.2008, 1 ♂, MT, CJM. Pivný potok, 470 m (40), 22.v.2010, 1 ♂ pupa. Okluky, 520 m (47), 30.v.2009, 1 ♂ 1 ♀ pupa. Boršický potok, 370–420 m (54), 30.v.2009, 1 ♀ pupa; 27.vi.2009, 1 ♂. RT Velička, 450 m (84), 22.vi.–15.vii.2009, 1 ♂, MT, CJM. LT Velička, 355–360 m (94), 30.vi.2005, 1 ♀; 25.vi.2009, 1 ♀. Velička, 325–350 m (95), 2.viii.2004, 1 ♂ 1 ♀, L. Járkovec, 320–365 m (113), 10.–31.vii.2006, 1 ♂, MT, CJM. LT Myjava, 630 m (131), 14.vi.2010, 1 ♀. Rybnický potok, 380–400 m (136), 27.vi.2005, 1 ♀, L. LT Rakové, spring areas and brooklets, 600–670 m (184), 6.vi.–13.vii.2006, 1 ♂ 1 ♀, MT, CJM. LT Brumovka, spring areas and brooklets, 530–570 m (189), 17.vi.2006, 2 ♂♂ 1 ♀; 14.vii.2006, 1 ♀. LT Brumovka, 450 m (190), 23.vii.2005, 1 ♂ 2 ♀♀, L. Dešňanský potok, spring area, brooklet, 530–570 m (194), 17.vi.2006, 1 ♂. LT Brumovka, spring areas, 430–460 m (197), 25.vi.–19.vii.2006, 1 ♀, MT, BO; 13.–16.viii.2007, 1 ♂, YPT, J. Ježek lgt. LT Brumovka, 400–430 m (198), 13.vii.2006, 3 ♂♂ 2 ♀♀, L. Bukový potok, spring area, 600 m (226), 24.v.–8.ix.2010, 1 ♂ 2 ♀♀, MT, CM. RT Vlárka, 430–470 m (243), 22.vi.2008, 1 ♀, L. O. Konvička lgt. RT Krátkovský potok, spring brook, 585 m (259), 31.v.2008, 4 ♂♂ 1 ♀. Hrnčářův potok, 470–485 m (268), 31.v.2008, 1 ♂. LT Hrnčářův potok, spring area and brooklet, 490 m (269), 31.v.2008, 1 ♀. LT Žitkovský potok, spring areas, 460–520 m (275), 9.v.–19.vi.2007, 3 ♂♂, MT, CJM. Žitkovský potok, 440–450 m (276), 11.vii.2007, 1 ♂. LT Hrubár, spring area, 650–660 m (287), 3.–17.vi.2007, 1 ♂, MT, BO. RT Hrubár, spring area, 640–650 m (288), 23.v.–23.viii.2006, 8 ♂♂ 2 ♀♀, MT, BO. LT Hrubár, spring brook, 655–660 m (290), 1.vi.2008, 1 ♂. LT Klanečnice, spring brook, 580–600 m (307), 3.vi.2007, 1 ♀. RT Klanečnice, 460–500 m (312), 9.vii.–12.viii.2010, 1 ♂, MT, CM. Svinárský potok, 560–590 m (314), 29.vi.–27.vii.2005, 1 ♂, MT, CJM. LT Svinárský potok, spring area, 630 m (317), 29.vi.2005, 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Common in spring habitats throughout the area. **Red List status:** –.

***Potamophylax rotundipennis* (Brauer, 1857)**

Material examined. Kolelač, 335 m (10), 10.iv.2008, 1 larva. Kladenka, 390 m (22), 16.vii.–23.ix.2008, 1 ♂ 2 ♀♀, MT, CJM. Kladenka, 245 m (26), 5.x.2009, 1 ♂. Radějovka, 175 m (119), 4.v.2006, 1 larva. Mandát, 350 m (123), 24.viii.–24.ix.2008, 1 ♀, MT, CJM. Vlára, 345 m (146), 31.vii.2004, 1 ♂.

Distribution and frequency in the Bílé Karpaty PLA: Found in only a few streams. **Red List status:** –.

Comments. The species is generally quite common in streams at medium and lower altitudes in the Czech Republic.

***Stenophylax permistus* McLachlan, 1895**

Material examined. LT Petrůvka, spring areas, 400 m (30), 13.v.–3.vi.2008, 1 ♀, MT, CJM. Velička, spring area, upper section, 850–900 m (58), 15.ix.2004, 1 ♀, M. Straka lgt.; 28.iv.–7.vi.2005, 1 ♂, MT, CJM. LT Velička, spring area, 570–620 m (64), 19.v.–7.vi.2005, 3 ♀♀, MT, CJM. Velička, 400–420 m (83), 27.x.2005, 1 ♀, L. Velička, 325–350 m (95), 16.ix.2009, 1 ♀, L. Zahrady pod Hájem NNR, 380 m (102), 25.vi.–15.vii.2009, 1 ♀, MT, CJM. Radějovka, 355–360 m (108), 9.ix.–22.x.2010, 1 ♂, MT, CM. Járkovec, 320–365 m (113), 20.vi.–10.vii.2006, 1 ♂, MT, CJM; 1.vii.2009, 1 ♀, L. J. Macek lgt. Václavský potok, spring, 480 m (161), 23.v.2010, 1 ♂. LT Rakové, spring areas and brooklets, 600–670 m (184), 11.v.–6.vi.2006, 1 ♂, MT, CJM. Žitkovský potok, 360–380 m (281), 31.x.2007, 1 ♀. RT Klanečnice, 460–500 m (312), 25.v.–15.vi.2010, 1 ♀, MT, CM. Svinárský potok, 560–590 m (314), 19.v.–29.vi.2005, 1 ♂ 1 ♀, MT, CJM.

Distribution and frequency in the Bílé Karpaty PLA: A common species of various flow wetlands. **Red List status:** –.

Stenophylax vibex (Curtis, 1834)

(VU)

Material examined. Hrubár, 560–570 m (289), 21.v.2008, 1 ♂, J. Ježek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Known only from a single record. **Red List status:** VU.

Comments. It is generally rare in the Czech Republic; it has been only sparsely recorded in the southern part of the country.

Family GOERIDAE

Goera pilosa (Fabricius, 1775)

Material examined. Lom Rasová NM (14), 31.v.2008, 1 ♀, L. Sudoměřický potok, 190 m (129), 27.vii.2005, 2 ♀♀; 27.vi.2008, 1 ♀. Teplica, 345 m (137), 4.v.2006, 15 larvae. Hajnice pond (171), 14.vii.2009, 1 ♀. Rokytanka, 330 m (172), 14.vii.2009, 1 ♂. Vlára, 285 m (236), 6.vi.2006, 1 ♂; 25.v.2010, 2 ♂♂.

Distribution and frequency in the Bílé Karpaty PLA: Generally common in larger streams, collected only along lower reaches of streams in the area. **Red List status:** –.

Lithax niger (Hagen, 1859)

Material examined. Velička, spring area, upper section, 850–900 m (58), 28.iv.–7.vi.2005, 102 ♂♂ 33 ♀♀, MT, CJM; 22.v.2005, 1 ♂ 3 ♀♀. Velička, 700–750 m (59), 22.v.2005, 2 ♀♀. LT Velička, spring areas, brooklets, 720–760 m (61), 5.v.2006, 1 ♂; 4.vi.2009, 2 ♀♀. LT Velička, spring area, 570–620 m (64), 27.iv.2005, 3 ♂♂; 22.v.2005, 4 ♂♂ 1 ♀; 27.iv.–7.vi.2005, 50 ♂♂ 13 ♀♀, MT, CJM. LT Velička, left branch, 600 m (78), 5.vi.2009, 1 larva. LT Nedašovka, 600–610 m (205), 21.v.2006, 1 ♂ 1 ♀. LT Hrubár, spring brook, 655–660 m (290), 9.v.2008, 7 ♂♂ 2 ♀♀; 1.vi.2008, 2 ♂♂ 5 ♀♀; 28.vi.2008, 1 ♂ 1 ♀. Soliskový potok, 580–590 m (292), 9.v.2008, 1 ♂. Zlatný potok, 550–590 m (299), 9.v.2008, 2 ♂♂. Svinárský potok, 560–590 m (314), 19.v.–7.vi.2005, 5 ♂♂, MT, CJM. RT Svinárský potok, 700 m (316), 4.vi.2009, 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: A psychrophilous, stenothermic species, relatively frequent and abundant in montane springs and brooks. **Red List status:** –.

Lithax obscurus (Hagen, 1859)

(VU)

Material examined. Kolelač, 335 m (10), 11.v.2011, 5 ♂♂ 1 ♀. Kladenka, 390 m (22), 13.v.–3.vi.2008, 2 ♂♂, MT, CJM. Rudický potok, 250 m (25), 4.v.2009, 2 ♂♂. Kladenka, 245 m (26), 4.v.2009, 25 ♂♂ 1 ♂ pupa 3 ♀♀. LT Luhačovický potok, 330 m (29), 23.v.2010, 1 ♂ 3 ♀; 27.vi.2010, 1 ♂. Boršický potok, 370–420 m (54), 30.v.2009, 4 ♂♂ pupae 1 ♀ pupa. Kazivec, 460–485 m (87), 29.vii.2009, 1 larva. Járkovec, 320–365 m (113), 10.v.–20.vi.2006, 2 ♂♂ 4 ♀♀, MT, CJM; 1.vi.2009, 2 ♂♂. Sviborka, 350–355 m (145), 25.v.2006, 7 ♂♂ 1 ♀. LT Vlára, 450 m (150), 27.v.2010, 1 ♂. Lukšinka, 400–430 m (153), 23.v.2010, 3 ♂♂ 1 ♂ pupa 4 ♀♀ 1 ♀ pupa. Lukšinka, 375 m (155), 23.v.2010, 4 ♂♂ 16 ♀♀; 27.vi.2010, 2 ♂♂. LT Lipovský potok, 415 m (157), 23.v.2010, 1 ♂ pupa. Lipovský potok, 370 m (158), 23.v.2010, 4 ♀♀; 27.vi.2010, 1 ♂. Rakové, 440–450 m (186), 17.vi.2006, 2 ♂♂ 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Quite common and often also abundant in submontane and colline brooks. **Red List status:** VU.

Comments. A relatively rare species in the Czech Republic; it occurs only locally in brooks at medium and lower altitudes.

***Silo pallipes* (Fabricius, 1781)**

Material examined. Kolelač, 335 m (10), 23.v.2010, 1 ♂; 27.vi.2010, 1 ♂ pupa 1 ♀ pupa. Koménka, 375 m (16), 26.vi.2010, 1 ♂ pupa. Koménka, 275 m (19), 31.vii.2010, 1 ♂ pupa 1 ♀ pupa. Kladenska, 390 m (22), 3.vi.–16.vii.2008, 8 ♂♂, MT, CJM. Gáborka, 280 m (35), 27.vi.2010, 1 ♂ pupa. Korytnice, 345 m (45), 22.v.2010, 1 ♂ 1 ♂ pupa 2 ♀♀ pupae. Velička, 470–480 m (68), 3.viii.2004, 1 ♂. Velička, 400–420 m (83), 3.vi.2009, 1 ♂. Velička, 325–350 m (95), 2.viii.2004, 1 ♂, L; 3.vi.2009, 1 ♂. Járkovec, 320–365 m (113), 20.vi.–31.vii.2006, 3 ♂♂ 3 ♀♀, MT, CJM. Radějovka, 270 m (117), 14.vii.2008, 1 ♂. Radějovka, 175 m (119), 8.vi.2005, 2 ♂♂ 5 ♀♀. Mandát, 360 m (121), 15.vii.2008, 1 ♂. Mandát, 350 m (123), 14.v.–4.vi.2008, 2 ♂♂, MT, CJM. Rybnický potok, 380–400 m (136), 27.vi.2005, 1 ♂, L. Teplica, 345 m (137), 2.v.2007, 1 ♂ 1 ♂ pupa. Zápechová, 520–530 m (141), 10.vi.2005, 1 ♂. RT Sviborka, 390–425 m (142), 24.vi.2008, 1 ♂. Sviborka, 350–355 m (145), 29.iv.2009, 17 larvae. Vlára, 345 m (146), 25.v.2006, 1 ♂ pupa. Říka, 375 m (152), 26.vi.2010, 1 ♂ pupa 1 ♀ pupa. RT Rokytka, 365 m (170), 14.vii.2009, 1 ♂ 2 ♀♀. Rakové, 510 m (183), 11.vi.2005, 1 ♂. LT Rakové, spring areas and brooklets, 600–670 m (184), 23.vii.2005, 2 ♂♂ 2 ♂♂ pupae 3 ♀♀; 14.vii.2006, 1 ♂ 1 ♀. Rakové, 440–450 m (186), 23.vii.2005, 1 ♀; 17.vi.2006, 1 ♂. RT Nedašovka, 540 m (201), 1.viii.2004, 1 larva. Nedašovka, 450–470 m (202), 1.viii.2004, 1 ♂. LT Nedašovka, brook and springs, 520 m (208), 14.vii.2006, 1 ♂. Vlárka, 290–320 m (246), 24.vii.2005, 2 ♂♂ 2 ♀♀. LT Drietomice, 435–440 m (255), 17.vi.–22.vii.2007, 1 ♂ 1 ♀, MT, BO; 5.viii.2007, 1 ♂. Krátkovský potok, 360 m (274), 5.x.2009, 6 larvae. Hrubár, 560–570 m (289), 25.vi.2008, 2 ♂♂ 1 ♀. Soliskový potok, 580–590 m (292), 9.v.2008, 1 ♀; 28.vi.2008, 1 ♂; 26.vi.2010, 1 ♂ pupa. Hrubár, 435 m (295), 1.vi.2008, 1 ♂; 31.vii.2010, 1 ♂ 2 ♀♀ 2 ♀♀ pupae. LT Hrubár, 440 m (297), 31.vii.2010, 1 ♂. RT Klanečnice, 460–500 m (312), 2.vi.2007, 1 ♂; 9.vii.–12.viii.2010, 1 ♂, MT, CM.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in brooks up to ca. 600 m a.s.l. **Red List status:** –.

Family LEPIDOSTOMATIDAE***Crunoecia irrorata* (Curtis, 1834)**

Published record. KŘOUPALOVÁ *et al.* (2011): LT Brumovka, spring areas, 430–460 m (197).

Additional material examined. RT Suchý potok, 450–520 m (6), 7.vii.2010, 1 ♂. Suchý potok, 400–430 m (7), 7.vii.2010, 1 ♀. Kladenska, spring area, 460 m (21), 23.vi.2008, 3 ♂♂ 2 ♀♀. LT Luhačovický potok, brook and spring area, 430 m (28), 24.vi.2008, 1 ♂. LT Petrůvka, spring areas, 400 m (30), 23.vi.2008, 1 ♂. LT Petrůvka, 410 m (31), 23.vi.2008, 3 ♂♂ 1 ♀. Gáborka, spring areas, 390–420 m (34), 27.vi.2010, 9 ♂♂ 2 ♀♀. Nivnička, spring area, 580 m (37), 26.vi.2010, 3 ♂♂; 31.vii.2010, 1 ♂ 1 ♀. Pivný potok, spring brooks, 550–560 m (39), 26.vi.2010, 2 ♂♂ 1 ♀. RT Okluky, brooklets, 530–540 m (48), 29.vii.2009, 1 ♂ 1 ♀. RT Okluky, spring area, 525 m (50), 29.vii.2009, 1 ♂ 1 ♀. Velička, spring area, upper section, 850–900 m (58), 3.viii.2004, 2 ♂♂ 2 ♀♀; 6.–24.viii.2009, 1 ♂, MT, CJM. Velička, 700–750 m (59), 3.viii.2004, 3 ♂♂ 1 ♀. LT Velička, spring area, 570–620 m (64), 3.viii.2004, 16 ♂♂ 3 ♀♀; 28.vi.2005, 2 ♂♂ 3 ♀♀; 4.vii.2005, 10 ♂♂ 5 ♀♀; 28.vii.2005, 15 ♂♂ 14 ♀♀; 7.vi.–22.ix.2005, 22 ♂♂ 38 ♀♀, MT, CJM. RT Velička, spring area, 500 m (67), 28.vi.2005, 1 ♂. RT Kamenný potok, spring area, 560 m (71), 2.viii.2004, 4 ♂♂. LT Velička, left branch, 600 m (78), 5.vi.2009, 3 ♂♂. LT Velička, brooklet and spring area, 520–540 m (80), 23.vi.2009, 3 ♂♂ 6 ♀♀. RT Kazivec, right branch, 515 m (85), 2.viii.2004, 1 ♂. LT Velička, left branch, 500 m (92), 15.ix.2009, 1 ♀. LT Velička, brooklets, 400 m (93), 15.ix.2009, 1 ♀. LT Hrubý potok, 550 m (98), 25.vii.2005, 1 ♀. LT Járkovec, spring area, 450–470 m (112), 6.vii.2005, 1 ♂ 3 ♀♀; 20.vi.2006, 1 ♂ 1 ♀; 11.vii.2006, 4 ♀♀. RT Rybnický potok, 510 m (132), 5.vii.2005, 3 ♂♂. LT Rybnický potok, spring area, 440 m (134), 6.vi.2005, 1 ♂; 27.vi.2005, 4 ♂♂ 3 ♀♀. Rybnický potok, 410–445 m (135), 27.vi.2005, 1 ♂. RT Sviborka, 400–440 m (144), 24.vi.2008, 1 ♂ 2 ♀♀. Křekovský potok, springs, 580 m (147), 17.vii.2009, 4 ♂♂ 2 ♀♀. Křekovský potok, 440–500 m (148), 17.vii.2009, 1 ♂. LT Lipovský potok, spring area, 500m (156), 27.vi.2010, 1 ♂. LT Rakové, spring areas and brooklets, 600–670 m (184), 23.vii.2005, 1 ♂ 5 ♀♀; 13.vii.2006, 2 ♂♂ 6 ♀♀; 13.–31.vii.2006, 1 ♂, MT, CJM. LT Brumovka, spring areas and brooklets, 530–570 m (189), 31.vii.2004, 1 ♂ 1 ♂ pupa 1 ♀ 1 ♀ pupa; 13.vii.2006, 2 ♂♂ 4 ♀♀; 23.viii.2006, 3 ♂♂. RT Brumovka, spring area, 450 m (193), 23.vi.2006, 1 ♂. Dešňanský potok, spring area, brooklet, 530–570 m (194), 17.vi.2006, 5 ♂♂ 6 ♀♀; 13.vii.2006, 2 ♂♂. LT

Caddis flies (Trichoptera)

Brumovka, spring areas, 430–460 m (197), 17.vi.2006, 1 ♂; 14.vii.2006, 1 ♂ 2 ♀♀; 30.ix.–21.x.2007, 1 ♀, MT, BO. RT Nedašovka, spring area, 590–605 m (199), 1.viii.2004, 1 ♂ 2 ♀♀; 13.vii.2006, 1 ♀. RT Nedašovka, spring area, 550 m (200), 1.viii.2004, 2 ♂♂. LT Nedašovka, 580–610 m (203), 18.vi.2010, 3 ♂♂ 1 ♀. LT Nedašovka, 600–610 m (205), 1.viii.2004, 2 ♂♂ 2 ♀♀. LT Nedašovka, 490–570 m (206), 1.viii.2004, 3 ♂♂ 2 ♀♀. Návojník, spring area, 650–700 m (211), 13.vii.2009, 1 ♀. Návojník, 520 m (212), 14.vii.2006, 3 ♂♂ 7 ♀♀. LT Bylnička, spring area, 600 m (215), 13.vii.2009, 6 ♂♂ 3 ♀♀. LT Bylnička, 450–550 m (218), 13.vii.2009, 2 ♂♂ 3 ♀♀. Bukový potok, spring area, 600 m (226), 4.vii.–23.x.2010, 5 ♀♀, MT, CM. LT Bukový potok, spring areas, 560 m (227), 4.vii.2010, 1 ♂ 2 ♀♀. RT Bukový potok, spring area, 430 m (229), 15.vii.2009, 1 ♀. LT Bukový potok, spring area, 450–480 m (233), 15.vii.2009, 1 ♀. RT Vlárka, 350 m (237), 12.vii.2006, 1 ♀. Vlárka, 530–550 m (239), 17.vi.2010, 1 ♀. RT Vlárka, spring area, 530–550 m (241), 17.vi.2010, 1 ♀. RT Vlárka, spring areas and brooks, 540–560 m (242), 5.vii.2010, 1 ♂ 3 ♀♀. Drietomice, spring area, 590–620 m (247), 8.vii.2010, 1 ♀. LT Drietomice, spring areas and brooks, 550–600 m (251), 24.vi.2007, 1 ♂; 13.vii.2007, 1 ♀. LT Drietomice, 500–550 m (252), 13.vii.2007, 2 ♂♂. LT Drietomice, spring area, 540 m (254), 22.vii.–30.ix.2007, 1 ♂ 1 ♀, MT, BO. RT Krátkovský potok, spring brook, 585 m (259), 27.vi.2008, 1 ♂; 10.viii.2008, 14 ♂♂ 4 ♀♀. LT Krátkovský potok, spring area, 485 m (262), 27.vi.2008, 1 ♂; 10.viii.2008, 1 ♀. RT Trstná, spring brook, 480–490 m (263), 27.vi.2008, 1 ♂. Trstná, 450–480 m (264), 18.vi.2007, 1 ♂ 1 ♀. LT Hrnčářův potok, spring area and brooklet, 490 m (269), 31.v.2008, 2 ♂♂; 27.vi.2008, 1 ♀; 10.viii.2008, 4 ♂♂ 3 ♀♀. LT Vlčí potok, spring area, 580 m (271), 7.vii.2010, 1 ♂ 2 ♀♀. LT Žitkovský potok, spring areas, 460–520 m (275), 21.viii.–12.ix.2007, 1 ♂, MT, CJM. LT Predpolomský potok, spring area and brooklet, 630–650 m (283), 4.vi.2007, 1 ♂ 1 ♀; 24.vi.2007, 1 ♂ 2 ♀♀; 5.viii.2007, 2 ♀♀. RT Predpolomský potok, spring area and brook, 750 m (285), 25.vi.2008, 1 ♂ 1 ♀. LT Hrubár, spring area, 650–660 m (287), 19.vi.2008, 1 ♀, J. Ježek lgt.; 25.vi.2008, 1 ♂. RT Hrubár, spring area, 640–650 m (288), 25.vi.2008, 1 ♂ 3 ♀♀. LT Hrubár, spring brook, 655–660 m (290), 28.vi.2008, 1 ♂. LT Soliskový potok, spring area, 590 m (293), 1.vi.2008, 3 ♂♂ 1 ♀; 10.viii.2008, 6 ♂♂ 2 ♀♀. RT Hrubár, 480–500 m (298), 9.vii.2010, 1 ♂ 1 ♀. Zlatný potok, 550–590 m (299), 11.viii.2008, 1 ♂. LT Klanečnice, spring brook, 580–600 m (307), 23.vi.2007, 1 ♂ 2 ♀♀; 4.viii.2007, 5 ♂♂ 1 ♀; 13.x.2007, 1 ♀. LT Klanečnice, spring areas, 440–490 m (309), 2.vi.2007, 3 ♂♂ 1 ♀; 23.vi.2007, 3 ♂♂; 4.viii.2007, 2 ♂♂ 3 ♀♀. RT Klanečnice, spring section, 650 m (311), 4.viii.2007, 1 ♂; 9.vii.2010, 4 ♂♂.

Distribution and frequency in the Bílé Karpaty PLA: A very abundant species in spring areas at medium and higher altitudes. **Red List status:** –.

Lepidostoma hirtum (Fabricius, 1775)

Material examined. Velička, 325–350 m (95), 2.viii.2004, 1 ♀, L. LT Brumovka, 400–430 m (198), 13.vii.2006, 1 ♀, L. Vlára, 285 m (236), 24.vii.2005, 1 ♀; 14.vii.2006, 2 ♂♂ 14 ♀♀, L.

Distribution and frequency in the Bílé Karpaty PLA: Being an inhabitant of larger streams, it was collected only along lower and middle reaches of the Vlára and Velička streams. **Red List status:** –.

Family SERICOSTOMATIDAE

Notidobia ciliaris (Linnaeus, 1761)

Material examined. Pond above Lučina reservoir (114), 6.v.2009, 6 ♂♂ 2 ♀♀. Sudoměřický potok, 190 m (129), 5.v.2009, 1 larva. Teplica, 345 m (137), 2.v.2007, 17 larvae. Sviborka, 350–355 m (145), 25.v.2006, 1 ♀ pupa. Lukšinka, 375 m (155), 23.v.2010, 2 ♂♂.

Distribution and frequency in the Bílé Karpaty PLA: Infrequently collected in submontane and colline brooks. **Red List status:** –.

***Sericostoma personatum* (Spence, 1826)**

Published record. KROUPALOVÁ *et al.* (2011): LT Brumovka, spring areas, 430–460 m (197).

Additional material examined. Vlčí potok, 440–450 m (4), 31.v.2009, 1 ♂ pupa 3 ♀♀ pupae. Olšava, 350–380 m (8), 31.v.2009, 2 ♂♂ pupae. Pond S Komňa (17), 22.v.2010, 1 ♂. Pivný potok, 390 m (41), 26.vi.2010, 1 ♂. Boršický potok, 370–420 m (54), 30.v.2009, 2 ♂♂ pupae. Velička, 700–750 m (59), 4.vii.2005, 2 ♂♂. LT Velička, spring areas, brooklets, 720–760 m (61), 4.vii.2005, 1 ♂. LT Velička, spring area, 570–620 m (64), 28.vi.–25.vii.2005, 5 ♂♂ 3 ♀♀, MT, CJM. Velička, 530–540 m (65), 28.vi.2005, 1 ♂ 1 ♀. LT Velička, spring area, 670 m (66), 23.vi.2009, 1 ♂. Velička, 470–480 m (68), 28.vi.2005, 1 ♀. Kamenný potok, 510 m (72), 29.vi.2005, 1 ♂. LT Velička, right branch, 600 m (75), 23.vi.2009, 1 ♂. Velička, 400–420 m (83), 12.vi.1999, 1 ♂. LT Velička, left branch, 500 m (92), 25.vi.2009, 1 ♂ 1 ♀. LT Velička, 355–360 m (94), 2.–25.vi.2009, 2 ♂♂ 1 ♀, MT, CJM. Járkovec, 320–365 m (113), 11.vii.2006, 2 ♂♂. RT Sviborka, 390–425 m (142), 24.vi.2008, 1 ♂. Václavský potok, spring, 480 m (161), 23.v.2010, 1 ♂ pupa. LT Rakové, spring areas and brooklets, 600–670 m (184), 23.vii.2005, 1 ♀; 22.vi.–13.vii.2006, 1 ♂, MT, CJM. LT Nedašovka, spring area, 630 m (207), 10.vi.2005, 1 ♂. Hlubočský potok, 440–460 m (224), 18.vi.2008, 1 ♂, J. Ježek lgt. Bukový potok, spring area, 600 m (226), 16.vi.–11.viii.2010, 3 ♂♂, MT, CM. RT Vlárka, 430–470 m (243), 16.vi.–5.vii.2010, 1 ♂, MT, CM. LT Drietomice, spring areas and brooks, 550–600 m (251), 4.vi.2007, 1 ♂ 2 ♀♀. LT Drietomice, 435–440 m (255), 4.vi.2007, 1 ♂ 1 ♀. Drietomice, 360–390 m (258), 4.vi.2007, 1 ♂. RT Krátkovský potok, spring brook, 585 m (259), 27.vi.2008, 2 ♂♂ 3 ♀♀. LT Hrnčárův potok, spring area and brooklet, 490 m (269), 31.v.2008, 1 ♂. RT Hrubár, spring area, 640–650 m (288), 5.vi.–3.vii.2006, 1 ♂ 1 ♀, MT, BO. LT Hrubár, spring brook, 655–660 m (290), 25.vi.2008, 1 ♂. Zlatný potok, 550–590 m (299), 12.vii.2007, 1 ♂. RT Klanečnice, 460–500 m (312), 29.vi.2005, 1 ♂; 23.vi.2007, 1 ♂. Svinárský potok, 560–590 m (314), 29.vi.–27.vii.2005, 2 ♂♂ 4 ♀♀, MT, CJM. LT Svinárský potok, 580 m (315), 7.vii.2005, 1 ♂ 1 ♀. Svinárský potok, 460 m (318), 7.vii.2005, 3 ♂♂ 2 ♀♀. RT Svinárský potok, 425 m (319), 7.vii.2005, 1 ♂.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in spring areas and brooks in the submontane and montane zones up to 750 m a.s.l. **Red List status:** –.

***Sericostoma schneiderii* (Kolenati, 1848)**

Material examined. Hrubý potok, 340–370 m (101), 26.vii.2005, 1 ♂, L.

Distribution and frequency in the Bílé Karpaty PLA: Caught only once at light. **Red List status:** –.

Comments. Generally, it is a common species of larger streams in the Czech Republic.

Family BERAETIDAE***Beraea maurus* (Curtis, 1834)**

Material examined. RT Suchý potok, 450–520 m (6), 7.vii.2010, 1 ♂. Suchý potok, 400–430 m (7), 7.vii.2010, 1 ♂ 1 ♀. Kolelač, 335 m (10), 27.vi.2010, 1 ♂. LT Luhačovický potok, brook and spring area, 430 m (28), 24.vi.2008, 1 ♂ 2 ♀♀. LT Petrůvka, spring areas, 400 m (30), 23.vi.2008, 4 ♂♂; 16.vii.2008, 2 ♂♂ 1 ♀. LT Petrůvka, 410 m (31), 23.vi.2008, 3 ♂♂ 4 ♀♀. Gáborka, spring areas, 390–420 m (34), 27.vi.2010, 4 ♂♂ 1 ♀. Nivnička, spring area, 580 m (37), 31.vii.2010, 3 ♂♂ 1 ♀. Pivný potok, spring brooks, 550–560 m (39), 31.vii.2010, 2 ♂♂. Pivný potok, 470 m (40), 31.vii.2010, 1 ♂. RT Okluky, brooklets, 530–540 m (48), 29.vii.2009, 5 ♂♂ 2 ♀♀. RT Okluky, spring area, 525 m (50), 29.vii.2009, 1 ♂ 1 ♀. Boršický potok, spring brook, 475 m (53), 27.vi.2009, 20 ♂♂ 6 ♀♀. Velička, spring area, upper section, 850–900 m (58), 3.viii.2004, 9 ♂♂ 3 ♀♀; 28.vi.2005, 1 ♀. Velička, 700–750 m (59), 3.viii.2004, 1 ♂ 1 ♀; 28.vi.2005, 1 ♀; 4.vii.2005, 4 ♀♀. LT Velička, 550–560 m (63), 3.viii.2004, 1 ♂. LT Velička, spring area, 570–620 m (64), 4.vii.2005, 1 ♂ 2 ♀♀.

Caddis flies (Trichoptera)

♀♀. Velička, 530–540 m (65), 28.vi.2005, 1 ♀; 4.vii.2005, 1 ♂. RT Velička, spring area, 500 m (67), 28.vi.2005, 2 ♀♀. RT Kamenný potok, spring area, 560 m (71), 2.viii.2004, 5 ♂♂ 1 ♀. LT Velička, brooklet and spring area, 520–540 m (80), 23.vi.2009, 2 ♂♂ 5 ♀♀. LT Velička, 435 m (82), 3.–22.vi.2009, 5 ♀♀, MT, CJM. RT Kazivec, right branch, 515 m (85), 2.viii.2004, 2 ♂♂. RT Kazivec, spring area, 505 m (86), 27.vi.2009, 1 ♂ 1 ♀. LT Kazivec, 420–440 m (88), 1.vii.2005, 1 ♂. LT Kazivec, 400 m (89), 1.vii.2005, 23 ♂♂ 1 ♀. LT Velička, left branch, 500 m (92), 25.vi.2009, 3 ♂♂. LT Velička, 355–360 m (94), 2.–25.vi.2009, 1 ♀, MT, CJM. Hrubý potok, 455 m (97), 14.vi.2010, 1 ♀. LT Hrubý potok, 550 m (98), 25.vii.2005, 2 ♂♂. RT Hrubý potok, 400–500 m (100), 25.vii.2005, 1 ♂ 1 ♀. LT Velička, 250 m (107), 10.vii.2006, 5 ♂♂ 8 ♀♀. Radějovka, 355–360 m (108), 11.vii.2006, 1 ♂ 1 ♀. LT Járkovec, spring area, 450–470 m (112), 6.vii.2005, 2 ♂♂; 11.vii.2006, 13 ♂♂ 10 ♀♀. Járkovec, 320–365 m (113), 29.v.–31.vii.2006, 1 ♂ 1 ♀, MT, CJM. LT Radějovka, spring area and brook, 380 m (115), 26.vi.2008, 4 ♂♂. Mandát, 350 m (123), 14.v.–15.vii.2008, 1 ♂ 7 ♀♀, MT, CJM. RT Mandát, spring area, 400–415 m (124), 4.–26.vi.2008, 1 ♂ 2 ♀♀, MT, CJM; 26.vi.2008, 3 ♂♂; 15.vii.2008, 1 ♂. RT Rybnický potok, 510 m (132), 5.vii.2005, 3 ♂♂. LT Rybnický potok, spring area, 440 m (134), 6.vi.2005, 4 ♂♂ 4 ♀♀; 27.vi.2005, 7 ♂♂ 62 ♀♀; 21.vi.2007, 2 ♂♂ 2 ♀♀. Rybnický potok, 410–445 m (135), 28.v.–9.vii.2007, 3 ♀♀, MT, CJM. Rybnický potok, 380–400 m (136), 27.vi.2005, 1 ♀; 14.vi.–13.vii.2010, 2 ♂♂ 2 ♀♀, MT, CM. RT Sviborka, 400–440 m (144), 24.vi.2008, 2 ♂♂ 2 ♀♀. Křekovský potok, springs, 580 m (147), 17.vii.2009, 1 ♀. LT Lipovský potok, spring area, 500m (156), 27.vi.2010, 3 ♂♂ 9 ♀♀. RT Zelenský potok, spring areas, 530–600 m (175), 16.vii.2009, 4 ♂♂. Vápenický potok, 600–650 m (179), 16.vii.2009, 1 ♂. LT Rakové, spring areas and brooklets, 600–670 m (184), 23.vii.2005, 2 ♂♂ 3 ♀♀; 6.–22.vi.2006, 1 ♂, MT, CJM; 13.vii.2006, 13 ♂♂ 11 ♀♀. LT Brumovka, spring areas and brooklets, 530–570 m (189), 31.vii.2004, 1 ♂ 1 ♂ pupa 1 ♀; 13.vii.2006, 6 ♂♂ 4 ♀♀; 1.vii.2010, 1 ♂ 2 ♀♀, J. Bojková lgt. LT Brumovka, 450 m (191), 31.vii.2004, 1 ♂. Dešňanský potok, spring area, brooklet, 530–570 m (194), 13.vii.2006, 3 ♂♂ 5 ♀♀; 1.vii.2010, 18 ♂♂ 7 ♀♀, J. Bojková lgt. LT Brumovka, spring areas, 430–460 m (197), 29.iv.–19.vii.2006, 1 ♂ 2 ♀♀, MT, BO; 23.vi.2006, 15 ♂♂ 13 ♀♀; 14.vii.2006, 1 ♀; 3.–29.vi.2007, 3 ♀♀, MT, BO. RT Nedašovka, spring area, 590–605 m (199), 13.vii.2006, 2 ♂♂ 2 ♀♀. LT Nedašovka, 580–610 m (203), 18.vi.2010, 4 ♀♀. LT Nedašovka, 600–610 m (205), 1.viii.2004, 1 ♂ 1 ♀; 14.vii.2006, 8 ♂♂ 3 ♀♀. LT Nedašovka, 490–570 m (206), 1.viii.2004, 3 ♂♂. LT Nedašovka, brook and springs, 520 m (208), 14.vii.2006, 4 ♂♂ 1 ♀. Hluboký potok, 480–500 m (209), 23.vii.2005, 1 ♂. Návojník, spring area, 650–700 m (211), 13.vii.2009, 2 ♂♂. Návojník, 520 m (212), 14.vii.2006, 1 ♂ 3 ♀♀. LT Bylnička, 450–550 m (218), 13.vii.2009, 7 ♂♂ 3 ♀♀. RT Bylnička, 450 m (220), 13.vii.2009, 3 ♂♂. Hlubočský potok, 500–580 m (223), 24.vii.2005, 6 ♂♂ 1 ♀. Bukový potok, spring area, 600 m (226), 4.vii.–11.viii.2010, 1 ♀, MT, CM. RT Bukový potok, spring area, 430 m (229), 15.vii.2009, 3 ♂♂. LT Bukový potok, spring area, 450–480 m (233), 15.vii.2009, 1 ♀. Bukový potok, 330 m (235), 15.vii.2009, 1 ♂. RT Vlárka, spring area, 530–550 m (241), 17.vi.2010, 1 ♂; 5.vii.2010, 2 ♂♂ 1 ♀. RT Vlárka, spring areas and brooks, 540–560 m (242), 5.vii.2010, 3 ♂♂ 1 ♀. RT Vlárka, 430–470 m (243), 24.vii.2005, 1 ♂; 5.vii.2010, 1 ♂ 1 ♀. RT Vlárka, spring areas, 460–550 m (244), 5.vii.2010, 1 ♂ 2 ♀♀. Drietomice, spring area, 590–620 m (247), 8.vii.2010, 2 ♂♂ 3 ♀♀. LT Drietomice, 620–650 m (249), 8.vii.2010, 1 ♀. LT Drietomice, spring areas and brooks, 550–600 m (251), 4.vi.2007, 2 ♂♂ 1 ♀; 24.vi.2007, 6 ♂♂ 1 ♀; 13.vii.2007, 2 ♂♂ 4 ♀♀; 5.viii.2007, 1 ♂. LT Drietomice, 500–550 m (252), 13.vii.2007, 1 ♂ 2 ♀♀. LT Drietomice, spring area, 540 m (254), 28.vi.–12.viii.2007, 1 ♂ 2 ♀♀, MT, BO. LT Drietomice, 435–440 m (255), 20.vi.2007, 1 ♀. LT Krátkovský potok, spring area, 485 m (262), 27.vi.2008, 1 ♂; 10.viii.2008, 1 ♂. Trstná, 450–480 m (264), 18.vi.2007, 1 ♀. Hrnčářův potok, 470–485 m (268), 27.vi.2008, 1 ♂. LT Hrnčářův potok, spring area and brooklet, 490 m (269), 31.v.2008, 17 ♂♂ 5 ♀♀; 27.vi.2008, 15 ♂♂ 13 ♀♀; 10.viii.2008, 1 ♀; 1.vii.2010, 4 ♂♂ 1 ♀, J. Bojková lgt. LT Žitkovský potok, spring areas, 460–520 m (275), 25.vi.–19.vii.2006, 1 ♂ 3 ♀♀, MT, BO; 29.v.–11.vii.2007, 4 ♀♀, MT, CJM; 19.vi.2007, 1 ♂ 1 ♀; 11.vii.2007, 2 ♂♂ 2 ♀♀. RT Rudický potok, spring area, 540 m (278), 19.vi.2007, 2 ♂♂ 9 ♀♀. LT Předpolomský potok, spring area and brooklet, 630–650 m (283), 4.vi.2007, 1 ♂ 1 ♀; 24.vi.2007, 4 ♂♂ 1 ♀. RT Předpolomský potok, spring area and brook, 750 m (285), 25.vi.2008, 3 ♂♂. LT Hrubár, spring area, 650–660 m (287), 17.vi.–22.vii.2007, 1 ♀, MT, BO. RT Hrubár, spring area, 640–650 m (288), 5.vi.–23.viii.2006, 14 ♀♀, MT, BO; 18.vi.2007, 4 ♂♂ 12 ♀♀; 25.vi.2008, 7 ♂♂ 16 ♀♀. Hrubár, 560–570 m (289), 25.vi.2008, 2 ♂♂. Soliskový potok, 580–590 m (292), 25.vi.2008, 1 ♀. LT Soliskový potok, spring area, 590 m (293), 1.vi.2008, 6 ♂♂ 2 ♀♀; 28.vi.2008, 6 ♂♂ 1 ♀; 26.vi.2010, 5 ♂♂ 2 ♀♀. RT Hrubár, spring area, 520 m (294), 20.vi.2007, 9 ♂♂ 4 ♀♀; 17.vi.–22.vii.2007, 1 ♀, MT, BO. RT Hrubár, 480–500 m (298), 9.vii.2010, 1 ♀. RT Zlatný potok, wetland, 550 m (302), 28.vi.2008, 5 ♂♂ 1 ♀. RT Hrubár, 380–450 m (306), 12.vii.2007, 5 ♂♂ 1 ♀. LT Klanečnice, spring brook, 580–600 m (307), 23.vi.2007, 3 ♂♂ 2 ♀♀. Klanečnice,

450 m (308), 26.vii.2005, 1 ♂ 2 ♀♀; 22.vi.2007, 3 ♂♂. LT Klanečnice, spring areas, 440–490 m (309), 2.vi.2007, 32 ♂♂ 7 ♀♀; 22.vi.2007, 34 ♂♂ 10 ♀♀. RT Klanečnice, spring section, 650 m (311), 23.vi.2007, 5 ♂♂; 4.viii.2007, 1 ♂; 9.vii.2010, 1 ♂ 3 ♀♀. RT Klanečnice, 460–500 m (312), 29.vi.2005, 1 ♀; 15.vi.–12.vii.2010, 3 ♂♂, MT, CM. Svinárský potok, 560–590 m (314), 7.vi.–9.viii.2005, 3 ♀♀, MT, CJM. Svinárský potok, 390–420 m (320), 7.vii.2005, 1 ♂. LT Svinárský potok, spring area, 460 m (322), 23.vi.2007, 3 ♂♂ 1 ♀. LT Klanečnice, brook and spring area, 440–480 m (325), 15.vi.2010, 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Very common and abundant in spring areas and brooklets. **Red List status:** –.

Beraea pullata (Curtis, 1834)

Material examined. Hluboká, 340 m (11), 23.v.2010, 1 ♂. Kladenska, 390 m (22), 13.v.–3.vi.2008, 2 ♂♂, MT, CJM. Boršický potok, spring brook, 475 m (53), 30.v.2009, 14 ♂♂ 2 ♀♀. Velička, spring area, upper section, 850–900 m (58), 28.iv.–7.vi.2005, 1 ♂, MT, CJM. Velička, 700–750 m (59), 7.vi.2005, 4 ♂♂ 1 ♀. RT Velička, spring area, 500 m (67), 7.vi.2005, 5 ♂♂ 2 ♀♀. Velička, 470–480 m (68), 7.vi.2005, 1 ♂. LT Velička, brooklet and spring area, 520–540 m (80), 5.vi.2009, 2 ♂♂. LT Velička, 435 m (82), 12.v.–3.vi.2009, 2 ♂♂, MT, CJM. RT Velička, 450 m (84), 3.vi.2009, 1 ♀. Kazivec, 460–485 m (87), 30.v.2009, 1 ♂. LT Velička, 355–360 m (94), 6.iv.–2.vi.2009, 6 ♂♂ 5 ♀♀, MT, CJM. RT Mandát, spring area, 400–415 m (124), 22.iv.–14.v.2008, 1 ♂, MT, CJM. LT Rybnický potok, spring area, 440 m (134), 21.v.2005, 1 ♂; 6.vi.2005, 3 ♂♂ 1 ♀. Rybnický potok, 410–445 m (135), 6.vi.2005, 1 ♂; 9.v.–18.vi.2007, 5 ♂♂ 5 ♀♀, MT, CJM. Rybnický potok, 380–400 m (136), 5.–24.v.2010, 2 ♂♂, MT, CM. RT Liešťanský potok, 400 m (138), 6.vi.2005, 1 ♀. Radošínský potok, 540–570 m (139), 10.vi.2005, 2 ♂♂ 4 ♀♀. RT Zápechová, spring area, 550 m (140), 10.vi.2005, 1 ♂. Zápechová, 520–530 m (141), 10.vi.2005, 2 ♂♂. LT Václavský potok, spring area, 490 m (162), 23.v.2010, 4 ♂♂ 1 ♀. Havránkův potok, 350–360 m (173), 27.v.2010, 1 ♂. Rakové, 510 m (183), 11.vi.2005, 1 ♂ 2 ♀♀. LT Rakové, spring areas and brooklets, 600–670 m (184), 17.vi.2006, 3 ♂♂ 2 ♀♀; 11.v.–13.vii.2006, 8 ♂♂ 2 ♀♀, MT, CJM; 22.vi.2006, 2 ♂♂. LT Rakové, 500–510 m (185), 11.vi.2005, 1 ♂. Rakové, 440–450 m (186), 11.vi.2005, 2 ♂♂; 17.vi.2006, 2 ♂♂ 1 ♀. LT Brumovka, 500 m (187), 22.vi.2006, 1 ♂. LT Brumovka, spring areas and brooklets, 530–570 m (189), 22.v.1999, 3 ♀♀, P. Kment lgt.; 17.vi.2006, 4 ♂♂; 28.v.2007, 1 ♂, J. Ježek lgt. Dešňanský potok, spring area, brooklet, 530–570 m (194), 17.vi.2006, 3 ♂♂ 1 ♀. LT Brumovka, spring areas, 430–460 m (197), 29.iv.–3.vi.2006, 4 ♂♂ 1 ♀, MT, BO; 21.v.2006, 1 ♂; 11.v.–23.vi.2006, 16 ♂♂ 3 ♀♀, MT, CJM; 17.vi.2006, 1 ♂ 2 ♀♀. LT Brumovka, 400–430 m (198), 23.vi.2006, 1 ♂. Hrušovka, wetland, 520 m (204), 10.vi.2005, 1 ♀. LT Nedašovka, spring area, 630 m (207), 10.vi.2005, 1 ♀. Bukový potok, spring area, 600 m (226), 24.v.–4.vii.2010, 1 ♂ 2 ♀♀, MT, CM. Vlára, 285 m (236), 9.vi.2005, 1 ♀. Vlárka, 530–550 m (239), 17.vi.2010, 2 ♀♀. LT Drietomice, wetland and brooklet, 438 m (256), 29.iv.–17.vi.2007, 24 ♂♂ 50 ♀♀, MT, BO; 4.vi.2007, 2 ♀♀. LT Krátkovský potok, spring area, 485 m (262), 31.v.2008, 2 ♂♂. LT Hrnčarův potok, spring area and brooklet, 490 m (269), 31.v.2008, 6 ♂♂ 8 ♀♀. LT Žitkovský potok, spring areas, 460–520 m (275), 23.v.–25.vi.2006, 17 ♂♂ 11 ♀♀, MT, BO; 9.–29.v.2007, 1 ♂ 1 ♀, MT, CJM. LT Predpolomský potok, spring area and brooklet, 630–650 m (283), 4.vi.2007, 1 ♂. Hrubár, 650–670 m (286), 15.vi.2006, 1 ♂ 1 ♀, J. Bojková lgt. RT Hrubár, spring area, 640–650 m (288), 30.iv.–3.vii.2006, 16 ♂♂ 12 ♀♀, MT, BO. LT Hrubár, spring brook, 655–660 m (290), 1.vi.2008, 1 ♀. LT Soliskový potok, spring area, 590 m (293), 1.vi.2008, 2 ♂♂; 22.v.2010, 1 ♀. Zlatný potok, 430–450 m (304), 1.vi.2008, 2 ♂♂ 2 ♀♀. Hrubár, 365–370 m (305), 1.vi.2008, 1 ♀. LT Klanečnice, spring areas, 440–490 m (309), 2.vi.2007, 1 ♀. RT Klanečnice, spring section, 650 m (311), 2.vi.2007, 2 ♂♂. RT Klanečnice, 460–500 m (312), 25.v.–15.vi.2010, 1 ♀, MT, CM. Svinárský potok, 560–590 m (314), 7.–29.vi.2005, 1 ♂, MT, CJM. LT Svinárský potok, spring area, 630 m (317), 7.vi.2005, 1 ♂ 2 ♀♀; 29.vi.2005, 1 ♂. LT Klanečnice, spring area, 430 m (326), 15.vi.2010, 1 ♂.

Distribution and frequency in the Bílé Karpaty PLA: Very common and abundant in spring areas and brooklets. **Red List status:** –.

Beraemyia hrabei* Mayer, 1937*(EN)**

Material examined. RT Klanečnice, 460–500 m (312), 9.vii.2010, 1 ♀; 9.vii.–12.viii.2010, 1 ♂, MT, CM.

Distribution and frequency in the Bílé Karpaty PLA: Rare, collected only alongside a brook in the Záhumenice NM. **Red List status:** EN.

Comments. This species was known from the Czech Republic only from relatively old records from the Vsetínské vrchy Mts. in the past (SEDLÁK 1971). More recently, also some additional unpublished material from eastern Moravia has become available.

***Beraeodes minutus* (Linnaeus, 1761)**

Material examined. Kolelač, 335 m (10), 8.x.2008, 2 larvae; 11.v.2011, 1 ♀. Hluboká, 340 m (11), 23.v.2010, 1 ♀. Kladenka, 390 m (22), 13.v.–3.vi.2008, 4 ♀♀, MT, CJM. Kladenka, 245 m (26), 4.v.2009, 5 ♂♂ 1 ♀. LT Luhačovický potok, 330 m (29), 23.v.2010, 1 ♀. LT Velička, 355–360 m (94), 12.v.–25.vi.2009, 3 ♀♀, MT, CJM. Radějovka, 355–360 m (108), 25.v.–15.vi.2010, 4 ♀♀, MT, CM. Járkovec, 320–365 m (113), 10.v.–20.vi.2006, 1 ♂ 11 ♀♀, MT, CJM. Mandát, 350 m (123), 14.v.–4.vi.2008, 1 ♀, MT, CJM. Teplica, 345 m (137), 25.ix.2007, 32 larvae. Sviborka, 350–355 m (145), 24.ix.2009, 41 larvae. Vlára, 345 m (146), 25.v.2006, 21 ♂♂ 2 ♀♀. Lukšinka, 375 m (155), 23.v.2010, 4 ♂♂ 4 ♀♀. Lipovský potok, 370 m (158), 23.v.2010, 14 ♂♂ 6 ♀♀. Říka, 338 m (163), 25.v.2006, 2 ♀♀. Zelenský potok, 325–330 m (181), 25.ix.2009, 2 larvae. LT Brumovka, spring areas, 430–460 m (197), 29.iv.–23.v.2006, 3 ♀♀, MT, BO. Klanečnice, 450 m (308), 2.vi.2007, 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Quite frequent in submontane streams. **Red List status:** –.

***Ernodes articularis* (Pictet, 1834)**

Material examined. LT Olšava, spring areas and brooklets, 540–570 m (2), 19.vi.2007, 1 ♂ 1 ♀. Suchý potok, spring area, 600–650 m (5), 7.vii.2010, 1 ♀. RT Suchý potok, 450–520 m (6), 7.vii.2010, 1 ♂ 2 ♀♀. Suchý potok, 400–430 m (7), 7.vii.2010, 4 ♀♀. Kladenka, spring area, 460 m (21), 23.vi.2008, 1 ♂ 3 ♀♀. Kladenka, 390 m (22), 3.–23.vi.2008, 1 ♀, MT, CJM. LT Luhačovický potok, brook and spring area, 430 m (28), 24.vi.2008, 2 ♂♂ 3 ♀♀. LT Petrůvka, spring areas, 400 m (30), 3.–23.vi.2008, 1 ♂ 2 ♀♀, MT, CJM; 23.vi.2008, 3 ♀♀. LT Petrůvka, 410 m (31), 23.vi.2008, 2 ♂♂ 37 ♀♀. Gáborka, spring areas, 390–420 m (34), 27.vi.2010, 7 ♂♂ 8 ♀♀. Nivnička, spring area, 580 m (37), 26.vi.2010, 3 ♂♂. RT Okluky, brooklets, 530–540 m (48), 27.vi.2009, 1 ♂. RT Okluky, spring area, 525 m (50), 27.vi.2009, 1 ♂. Velička, spring area, upper section, 850–900 m (58), 3.viii.2004, 11 ♂♂ 3 ♀♀; 28.vi.2005, 6 ♂♂ 3 ♀♀; 4.vii.2005, 3 ♂♂ 3 ♀♀. Velička, 700–750 m (59), 28.vi.2005, 5 ♂♂ 3 ♀♀; 4.vii.2005, 6 ♀♀. LT Velička, spring areas, brooklets, 720–760 m (61), 4.vii.2005, 10 ♂♂ 5 ♀♀. LT Velička, 550–560 m (63), 28.vi.2005, 3 ♂♂. LT Velička, spring area, 570–620 m (64), 3.viii.2004, 4 ♂♂; 28.vi.2005, 106 ♂♂ 31 ♀♀; 4.vii.2005, 55 ♂♂ 26 ♀♀; 28.vii.2005, 3 ♂♂ 2 ♀♀; 7.vi.–9.viii.2005, 27 ♂♂ 51 ♀♀, MT, CJM. Velička, 530–540 m (65), 28.vi.2005, 5 ♂♂ 3 ♀♀; 4.vii.2005, 2 ♂♂ 7 ♀♀. LT Velička, spring area, 670 m (66), 23.vi.2009, 1 ♂. RT Velička, spring area, 500 m (67), 28.vi.2005, 95 ♂♂. LT Kamenný potok, 620–650 m (69), 29.vi.2005, 2 ♂♂. LT Kamenný potok, 510–550 m (70), 29.vi.2005, 23 ♂♂ 25 ♀♀. LT Velička, brooklet and spring area, 520–540 m (80), 23.vi.2009, 6 ♂♂ 11 ♀♀. LT Velička, 435 m (82), 3.–22.vi.2009, 2 ♂♂, MT, CJM. RT Velička, 450 m (84), 3.–22.vi.2009, 1 ♂, MT, CJM. LT Velička, left branch, 500 m (92), 25.vi.2009, 3 ♂♂. LT Velička, 355–360 m (94), 12.v.–25.vi.2009, 5 ♂♂ 2 ♀♀, MT, CJM. LT Hrubý potok, 550 m (98), 21.vi.2007, 2 ♂♂ 1 ♀. LT Járkovec, spring area, 450–470 m (112), 20.vi.2006, 7 ♂♂ 2 ♀♀; 11.vii.2006, 4 ♂♂ 1 ♀. Mandát, 350 m (123), 14.v.–4.vi.2008, 1 ♂, MT, CJM. RT Mandát, spring area, 400–415 m (124), 4.–26.vi.2008, 2 ♀♀, MT, CJM. RT Rybnický potok, 510 m (132), 5.vii.2005, 2 ♂♂ 5 ♀♀. LT Rybnický potok, spring area, 440 m (134), 6.vi.2005, 16 ♂♂ 33 ♀♀; 27.vi.2005, 1 ♂ 22 ♀♀. Rybnický potok, 410–445 m (135), 27.vi.2005, 1 ♂; 5.vii.2005, 1 ♀; 28.v.–18.vi.2007, 2 ♂♂ 3 ♀♀.

MT, CJM. Rybnický potok, 380–400 m (136), 14.vi.–13.vii.2010, 1 ♂ 1 ♀, MT, CM. RT Sviborka, 390–425 m (142), 24.vi.2008, 1 ♂ 1 ♀. RT Sviborka, 400–440 m (144), 24.vi.2008, 5 ♂♂ 11 ♀♀. RT Lukšinka, 420–435 m (154), 27.vi.2010, 1 ♂ 3 ♀♀. LT Lipovský potok, spring area, 500m (156), 27.vi.2010, 16 ♂♂ 17 ♀♀. RT Rokytka, left branch, 500 m (167), 14.vii.2009, 1 ♂. RT Zelenský potok, spring areas, 530–600 m (175), 16.vii.2009, 2 ♂♂ 1 ♀. Zelenský potok, 410 m (176), 16.vii.2009, 1 ♀. Vápenický potok, 600–650 m (179), 16.vii.2009, 1 ♂. LT Rakové, spring areas and brooklets, 600–670 m (184), 23.vii.2005, 3 ♂♂ 2 ♀♀; 13.vii.2006, 3 ♂♂ 6 ♀♀; 22.vi.–13.vii.2006, 2 ♂♂ 13 ♀♀, MT, CJM. LT Brumovka, spring areas and brooklets, 530–570 m (189), 17.vi.2006, 1 ♂; 14.vii.2006, 3 ♂♂; 1.vii.2010, 1 ♂, J. Bojková lgt. LT Brumovka, 450 m (191), 31.vii.2004, 1 ♂. RT Brumovka, spring area, 450 m (193), 23.vi.2006, 4 ♂♂ 10 ♀♀. Dešňanský potok, spring area, brooklet, 530–570 m (194), 17.vi.2006, 13 ♂♂ 2 ♀♀; 1.vii.2010, 1 ♀, J. Bojková lgt. LT Brumovka, spring areas, 430–460 m (197), 29.iv.–19.vii.2006, 7 ♂♂ 31 ♀♀, MT, BO; 17.vi.2006, 3 ♂♂ 2 ♀♀; 23.vi.2006, 31 ♂♂ 6 ♀♀; 23.v.–29.vi.2007, 8 ♂♂ 11 ♀♀, MT, BO. RT Nedašovka, spring area, 590–605 m (199), 13.vii.2006, 9 ♀♀. RT Nedašovka, spring area, 550 m (200), 1.viii.2004, 1 ♀. LT Nedašovka, 580–610 m (203), 18.vi.2010, 3 ♂♂ 3 ♀♀. LT Nedašovka, 600–610 m (205), 1.viii.2004, 2 ♂♂ 4 ♀♀; 14.vii.2006, 4 ♂♂ 2 ♀♀. LT Nedašovka, 490–570 m (206), 1.viii.2004, 1 ♂ 1 ♀. Hluboký potok, 480–500 m (209), 23.vii.2005, 1 ♂. Návojník, spring area, 650–700 m (211), 13.vii.2009, 1 ♂. RT Brumovka, spring area, 550 m (214), 17.vii.2009, 1 ♀. LT Bylnička, spring, 550 m (216), 13.vii.2009, 2 ♂♂. LT Bylnička, 450–550 m (218), 13.vii.2009, 3 ♂♂ 1 ♀. RT Vlára, source area, 420 m (222), 18.vi.2010, 2 ♂♂ 1 ♀. Hlubočský potok, 500–580 m (223), 24.vii.2005, 5 ♀♀. Bukový potok, spring area, 600 m (226), 24.v.–11.viii.2010, 19 ♂♂ 38 ♀♀, MT, CM; 4.vii.2010, 13 ♂♂ 3 ♀♀. LT Bukový potok, spring areas, 560 m (227), 4.vii.2010, 7 ♂♂ 3 ♀♀. RT Bukový potok, spring area, 430 m (229), 15.vii.2009, 4 ♂♂ 6 ♀♀. LT Bukový potok, spring area, 450–480 m (233), 15.vii.2009, 3 ♀♀. RT Vlára, 350 m (237), 12.vii.2006, 1 ♂. Vlárka, 530–550 m (239), 17.vi.2010, 5 ♂♂. RT Vlárka, spring area, 530–550 m (241), 17.vi.2010, 24 ♂♂ 9 ♀♀; 5.vii.2010, 7 ♂♂ 6 ♀♀. RT Vlárka, spring areas and brooks, 540–560 m (242), 5.vii.2010, 6 ♂♂ 6 ♀♀. RT Vlárka, 430–470 m (243), 16.vi.–11.viii.2010, 2 ♂♂ 7 ♀♀, MT, CM; 17.vi.2010, 29 ♂♂ 5 ♀♀; 5.vii.2010, 1 ♀. RT Vlárka, spring areas, 460–550 m (244), 5.vii.2010, 1 ♀. Drietomice, spring area, 590–620 m (247), 8.vii.2010, 4 ♂♂ 10 ♀♀. LT Drietomice, 620–650 m (249), 8.vii.2010, 5 ♂♂ 7 ♀♀. LT Drietomice, spring areas and brooks, 550–600 m (251), 4.vi.2007, 1 ♂ 1 ♀; 24.vi.2007, 5 ♂♂ 7 ♀♀. LT Drietomice, spring area, 540 m (254), 28.vi.–22.vii.2007, 1 ♀, MT, BO. LT Drietomice, wetland and brooklet, 438 m (256), 17.v.–28.vi.2007, 2 ♀♀, MT, BO; 24.vi.2007, 2 ♂♂ 1 ♀. LT Drietomice, spring area, 450 m (257), 20.vi.2007, 4 ♂♂ 2 ♀♀. LT Krátkovský potok, spring area, 485 m (262), 27.vi.2008, 4 ♂♂. RT Trstná, spring brook, 480–490 m (263), 27.vi.2008, 6 ♂♂ 2 ♀♀. Trstná, 450–480 m (264), 18.vi.2007, 2 ♂♂ 3 ♀♀. RT Trstná, spring area, 450–460 m (266), 18.vi.2007, 1 ♂ 6 ♀♀; 27.vi.2008, 1 ♂ 1 ♀. LT Hrnčářův potok, spring area and brooklet, 490 m (269), 31.v.2008, 11 ♂♂ 14 ♀♀; 27.vi.2008, 3 ♂♂ 6 ♀♀. LT Vlčí potok, spring area, 580 m (271), 7.vii.2010, 1 ♂ 3 ♀♀. LT Žitkovský potok, spring areas, 460–520 m (275), 25.vi.–19.vii.2006, 2 ♀♀, MT, BO; 19.vi.2007, 1 ♀; 29.v.–11.vii.2007, 2 ♂♂ 8 ♀♀, MT, CJM. RT Rudický potok, spring area, 640 m (277), 7.vii.2010, 1 ♂. RT Rudický potok, spring area, 540 m (278), 19.vi.2007, 2 ♂♂ 3 ♀♀. LT Predpolomský potok, spring area and brooklet, 630–650 m (283), 4.vi.2007, 2 ♂♂ 1 ♀; 24.vi.2007, 1 ♂ 3 ♀♀. LT Hrubár, spring area, 650–660 m (287), 3.vi.–22.vii.2007, 4 ♀♀, MT, BO; 25.vi.2008, 12 ♂♂ 18 ♀♀. RT Hrubár, spring area, 640–650 m (288), 5.vi.–19.vii.2006, 7 ♂♂ 13 ♀♀, MT, BO; 20.vi.2007, 3 ♂♂ 16 ♀♀; 25.vi.2008, 29 ♂♂ 36 ♀♀. LT Hrubár, spring brook, 655–660 m (290), 25.vi.2008, 4 ♂♂ 3 ♀♀; 28.vi.2008, 5 ♂♂ 2 ♀♀. Soliskový potok, 680–780 m (291), 28.vi.2008, 7 ♂♂ 3 ♀♀. LT Soliskový potok, spring area, 590 m (293), 1.vi.2008, 1 ♀; 28.vi.2008, 1 ♂ 5 ♀♀; 26.vi.2010, 21 ♂♂ 9 ♀♀. LT Klanečnice, spring areas, 440–490 m (309), 2.vi.2007, 22 ♂♂ 10 ♀♀. Klanečnice, 420 m (310), 2.vi.2007, 1 ♂. RT Klanečnice, spring section, 650 m (311), 23.vi.2007, 4 ♂♂ 7 ♀♀; 9.vii.2010, 1 ♀. RT Klanečnice, 460–500 m (312), 29.vi.2005, 1 ♀; 15.vi.–9.vii.2010, 1 ♂ 1 ♀, MT, CM. Svinárský potok, 560–590 m (314), 7.vii.2005, 2 ♀♀; 7.vi.–27.vii.2005, 7 ♀♀, MT, CJM. LT Svinárský potok, 580 m (315), 7.vii.2005, 2 ♂♂ 6 ♀♀. LT Svinárský potok, spring area, 630 m (317), 29.vi.2005, 43 ♂♂ 5 ♀♀. Klanečnice, 345–350 m (324), 15.vi.2010, 1 ♂. LT Klanečnice, brook and spring area, 440–480 m (325), 15.vi.2010, 2 ♂♂. LT Klanečnice, spring area, 430 m (326), 15.vi.2010, 2 ♂♂ 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Very common and abundant in spring habitats in the submontane and montane zones. **Red List status:** –.

Comments. In the Czech Republic, this crenobiontic species occurs locally in Bohemia and western Moravia but it is more widespread in the Carpathians in eastern Moravia.

Ernodes vicinus* (McLachlan, 1879)*(EN)**

Published records. KOMZÁK & CHVOJKA (2005): Velička, spring area, upper section, 850–900 m (58); LT Velička, spring area, 570–620 m (64).

Additional material examined. Suchý potok, spring area, 600–650 m (5), 7.vii.2010, 3 ♂♂ 1 ♀. RT Suchý potok, 450–520 m (6), 7.vii.2010, 1 ♂. Suchý potok, 400–430 m (7), 7.vii.2010, 1 ♂. LT Velička, 550–560 m (63), 28.vi.2005, 1 ♂. LT Velička, spring area, 570–620 m (64), 3.viii.2004, 1 ♂; 4.vii.2005, 5 ♂♂; 28.vi.–29.viii.2005, 54 ♂♂ 6 ♀♀, MT, CJM; 28.vii.2005, 4 ♂♂. RT Velička, spring area, 500 m (67), 28.vi.2005, 31 ♂♂. LT Járkovec, spring area, 450–470 m (112), 6.vii.2005, 4 ♂♂ 2 ♀♀; 11.vii.2006, 1 ♂ 3 ♀♀. LT Rybnický potok, spring area, 440 m (134), 27.vi.2005, 3 ♂♂; 21.vi.2007, 1 ♂. Rybnický potok, 410–445 m (135), 5.vii.2005, 3 ♂♂ 1 ♀. RT Zelenský potok, spring areas, 530–600 m (175), 16.vii.2009, 1 ♂ 1 ♀. LT Rakové, spring areas and brooklets, 600–670 m (184), 13.vii.2006, 1 ♂ 1 ♀. LT Brumovka, spring areas, 430–460 m (197), 23.vi.2006, 4 ♂♂ 1 ♀; 25.vi.–19.vii.2006, 1 ♂, MT, BO; 23.v.–22.vii.2007, 12 ♂♂ 19 ♀♀, MT, BO. RT Nedašovka, spring area, 590–605 m (199), 13.vii.2006, 2 ♂♂ 2 ♀♀. LT Nedašovka, 600–610 m (205), 14.vii.2006, 1 ♂. LT Bylnička, spring, 550 m (216), 13.vii.2009, 2 ♂♂ 1 ♀. Bukový potok, spring area, 600 m (226), 16.vi.–11.viii.2010, 103 ♂♂ 39 ♀♀, MT, CM; 4.vii.2010, 2 ♂♂. RT Bukový potok, spring area, 430 m (229), 15.vii.2009, 1 ♂ 4 ♀♀. LT Bukový potok, spring area, 450–480 m (233), 15.vii.2009, 1 ♂ 1 ♀. Vlářka, 530–550 m (239), 17.vi.2010, 3 ♂♂. RT Vlářka, spring area, 530–550 m (241), 5.vii.2010, 1 ♂. RT Vlářka, spring areas and brooks, 540–560 m (242), 5.vii.2010, 1 ♂ 2 ♀♀. RT Vlářka, 430–470 m (243), 17.vi.2010, 1 ♂; 5.vii.–11.viii.2010, 1 ♂, MT, CM. RT Vlářka, spring areas, 460–550 m (244), 5.vii.2010, 2 ♂♂. Drietomice, spring area, 590–620 m (247), 8.vii.2010, 1 ♂. LT Drietomice, 620–650 m (249), 8.vii.2010, 4 ♂♂ 1 ♀. RT Trstná, spring area, 450–460 m (266), 18.vi.2007, 1 ♂ 1 ♀; 27.vi.2008, 2 ♂♂ 2 ♀♀. LT Vlčí potok, spring area, 580 m (271), 7.vii.2010, 1 ♂. RT Klanečnice, 460–500 m (312), 15.vi.–9.vii.2010, 1 ♂, MT, CM. LT Svinárský potok, 580 m (315), 7.vii.2005, 8 ♂♂. Svinárský potok, 460 m (318), 7.vii.2005, 2 ♂♂.

Distribution and frequency in the Bílé Karpaty PLA: Quite frequent and abundant in submontane and montane spring areas. **Red List status:** EN.

Comments. This crenobiontic species was firstly recorded from Bohemia and Moravia only recently (CHVOJKA & NOVÁK 2001, KOMZÁK & CHVOJKA 2005). It is probably common in spring habitats in the Moravian Carpathians, while it is very rare elsewhere in the Czech Republic.

Family ODONTOCERIDAE***Odontocerum albicorne* (Scopoli, 1763)**

Material examined. Olšava, 350–380 m (8), 19.vi.2007, 1 ♂. Koménka, 275 m (19), 24.ix.2009, 1 larva. Petřůvka, 300 m (32), 1.viii.2010, 1 ♂. RT Okluky, 540 m (49), 29.vii.2009, 1 ♂. Velička, 700–750 m (59), 3.viii.2004, 4 ♂♂ 1 ♀. LT Velička, spring area, 570–620 m (64), 28.vii.2005, 1 ♂. Velička, 530–540 m (65), 3.viii.2004, 4 ♂♂ 1 ♀. Kamenný potok, 510 m (72), 29.vi.2005, 2 ♂♂. LT Velička, 435 m (82), 5.–24.viii.2009, 1 ♂, MT, CJM. Kazivec, 390–410 m (90), 2.viii.2004, 2 ♂♂. LT Velička, 355–360 m (94), 25.vi.–15.vii.2009, 2 ♂♂ 1 ♀, MT, CJM. Velička, 325–350 m (95), 2.viii.2004, 1 ♀, L. RT Hrubý potok, 400–500 m (100), 25.vii.2005, 1 ♂. Hrubý potok, 340–370 m (101), 26.vii.2005, 1 ♂, L. Rybnický potok, 410–445 m (135), 2.–22.viii.2007, 1 ♀, MT, CJM. Kochavecký potok, 410 m (178), 16.vii.2009, 1 ♀. Zelenský potok, 325–330 m (181), 25.ix.2009, 8 larvae. Brumovka, 340–355 m (196), 1.viii.2004, 1 ♂, L. LT Brumovka, spring areas, 430–460 m (197), 23.vi.–13.vii.2006, 1 ♀, MT, CJM. RT Nedašovka, 540 m (201), 1.viii.2004, 3 ♂♂. Návojník, 410 m (213), 14.vii.2006, 1 ♂. Bukový potok, spring area, 600 m (226), 4.vii.–11.viii.2010, 1 ♀, MT, CM. Vlářka, 285 m (236), 14.vii.2006, 1 ♀, L. RT Vlářka, 350 m (237), 12.vii.2006, 1 ♂. Vlářka, 290–320 m (246), 24.vii.2005, 1 ♂. LT Drietomice, spring areas and brooks, 550–600 m (251), 5.viii.2007, 1 ♂. LT Drietomice, 440 m (253), 8.vii.2010, 1 ♂. LT Drietomice, 435–440 m (255), 5.viii.2007, 1 ♂. Drietomice, 360–390 m (258), 5.viii.2007, 1 ♂; 8.vii.2010, 1 ♂. RT Krátkovský potok, 510 m (260), 27.vi.2008, 1 ♂; 10.viii.2008, 1 ♂ 1 ♀. Krátkovský potok, 420 m (267), 5.viii.2007, 3 ♂♂ 2 ♀♀. Hrnčářův potok, 470–485 m (268), 10.viii.2008, 9 ♂♂ 3 ♀♀. Vlčí potok, 440 m (272), 10.viii.2008, 1 ♂. Krátkovský potok, 360 m (274),

5.v.2009, 3 larvae. Žitkovský potok, 440–450 m (276), 11.vii.2007, 1 ♀. LT Hrubár, spring area, 650–660 m (287), 22.vii.–12.viii.2007, 1 ♀, MT, BO. Soliskový potok, 580–590 m (292), 10.viii.2008, 3 ♂♂ 1 ♀. LT Hrubár, 440 m (297), 31.vii.2010, 2 ♂♂ 1 ♂ pupa. Zlatný potok, 550–590 m (299), 11.viii.2008, 1 ♂. Klanečnice, 450 m (308), 4.viii.2007, 1 ♂. Svinárský potok, 560–590 m (314), 27.vii.–20.ix.2005, 5 ♂♂ 4 ♀♀, MT, CJM.

Distribution and frequency in the Bílé Karpaty PLA: Frequent in brooks and streams in the submontane and montane zones up to 750 m a.s.l. **Red List status:** –.

Family LEPTOCERIDAE

Adicella filicornis (Pictet, 1834)

Material examined. Pivný potok, spring brooks, 550–560 m (39), 26.vi.2010, 8 ♀♀. LT Velička, spring area, 570–620 m (64), 4.vii.2005, 1 ♀. LT Velička, brooklet and spring area, 520–540 m (80), 5.vi.2009, 2 ♂♂. LT Velička, brooklets, 400 m (93), 25.vi.2009, 1 ♀. RT Hrubý potok, spring, 620 m (96), 14.vi.2010, 7 ♂♂ 3 ♀♀. RT Rybnický potok, 480 m (133), 21.vi.2007, 1 ♀. LT Rakové, spring areas and brooklets, 600–670 m (184), 23.vii.2005, 1 ♂; 22.vi.2006, 9 ♂♂ 2 ♀♀; 13.vii.2006, 4 ♂♂ 3 ♀♀; 22.vi.–13.vii.2006, 1 ♂ 5 ♀♀, MT, CJM. LT Brumovka, spring areas and brooklets, 530–570 m (189), 17.vi.2006, 3 ♂♂ 1 ♀; 14.vii.2006, 1 ♀. Dešňanský potok, spring area, brooklet, 530–570 m (194), 1.vii.2010, 1 ♀, J. Bojková lgt. LT Brumovka, spring areas, 430–460 m (197), 17.vi.2006, 1 ♀; 23.vi.–13.vii.2006, 1 ♀, MT, CJM. RT Nedašovka, spring area, 590–605 m (199), 13.vii.2006, 3 ♀♀. LT Nedašovka, 580–610 m (203), 18.vi.2010, 1 ♂ 4 ♀♀. Bukový potok, spring area, 600 m (226), 16.vi.–11.viii.2010, 5 ♀♀, MT, CM. LT Drietomice, spring areas and brooks, 550–600 m (251), 4.vi.2007, 3 ♂♂ 2 ♀♀; 24.vi.2007, 1 ♀. LT Hrnčarův potok, spring area and brooklet, 490 m (269), 31.v.2008, 3 ♂♂ 5 ♀♀; 27.vi.2008, 1 ♀; 10.viii.2008, 1 ♀; 1.vii.2010, 8 ♂♂ 1 ♀, J. Bojková lgt. LT Žitkovský potok, spring areas, 460–520 m (275), 25.vi.–19.vii.2006, 2 ♀♀, MT, BO; 9.–29.v.2007, 1 ♀, MT, CJM. LT Predpolomský potok, spring area and brooklet, 630–650 m (283), 5.viii.2007, 1 ♀. LT Hrubár, spring area, 650–660 m (287), 25.vi.2008, 1 ♂ 2 ♀♀. LT Hrubár, spring brook, 655–660 m (290), 25.vi.2008, 1 ♂. LT Soliskový potok, spring area, 590 m (293), 1.vi.2008, 13 ♂♂ 4 ♀♀. Svinárský potok, 560–590 m (314), 29.vi.–27.vii.2005, 1 ♀, MT, CJM.

Distribution and frequency in the Bílé Karpaty PLA: Frequent in spring areas and tricklets up to ca. 670 m a.s.l. **Red List status:** –.

Athripsodes albifrons (Linnaeus, 1758)

Material examined. Vlára, 285 m (236), 24.vii.2005, 1 ♂; 12.vii.2006, 31 ♂♂ 2 ♀♀; 14.vii.2006, 57 ♂♂ 106 ♀♀, L; 15.vii.2009, 5 ♂♂ 7 ♀♀.

Distribution and frequency in the Bílé Karpaty PLA: Abundant in the lowermost section of the Vlára river, which fits the habitat requirements of this species. **Red List status:** –.

Athripsodes aterrimus (Stephens, 1836)

Material examined. Lom Rasová NM (14), 18.vi.2007, 2 ♂♂; 31.v.2008, 3 ♂♂.

Distribution and frequency in the Bílé Karpaty PLA: Preferring densely-vegetated standing waters; collected only in pools of the Lom Rasová NM. **Red List status:** –.

***Athripsodes bilineatus* (Linnaeus, 1758)**

Published records. OBR (1969): Radějovka, 270 m (117); Kuželovský potok, 204–212 m (106).

Additional material examined. Kolelač, 335 m (10), 1.viii.2010, 4 ♂♂ 1 ♀. Luhačovický potok, 325 m (27), 1 ♂. Lubná, 325 m (42), 4.viii.2007, 12 ♂♂ 3 ♀♀. Velička, 470–480 m (68), 3.viii.2004, 1 ♂. Kamenný potok, 510 m (72), 7.vii.2005, 1 ♂. Velička, 400–420 m (83), 26.vii.2005, 8 ♂♂ 7 ♀♀. Kazivec, 390–410 m (90), 2.viii.2004, 10 ♂♂ 1 ♀. LT Velička, 355–360 m (94), 2.vi.–24.viii.2009, 6 ♀♀, MT, CJM. Velička, 325–350 m (95), 2.viii.2004, 4 ♂♂ 4 ♀♀, L; 4.vii.2005, 1 ♂ 3 ♀♀. Hrubý potok, 340–370 m (101), 25.vii.2005, 22 ♂♂ 16 ♀♀; 26.vii.2005, 1 ♂, L. Radějovka, 355–360 m (108), 15.vi.–14.vii.2010, 3 ♀♀, MT, CM. Járkovec, 320–365 m (113), 29.v.–21.viii.2005, 7 ♂♂ 9 ♀♀, MT, CJM; 10.vii.2006, 5 ♂♂ 3 ♀♀. Radějovka, 270 m (117), 26.vi.2008, 1 ♂ 1 ♀. Radějovka, 195 m (118), 12.vii.2006, 1 ♂ 2 ♀♀. Mandát, 360 m (121), 15.vii.2008, 2 ♂♂ 1 ♀. Mandát, 350 m (123), 4.vi.–15.vii.2008, 3 ♂♂ 7 ♀♀, MT, CJM; 26.vi.2008, 3 ♂♂ 3 ♀♀. Mandát, 265 m (125), 27.vi.2008, 2 ♂♂. Sudoměřický potok, 220 m (127), 27.vii.2005, 1 ♂; 19.vi.2006, 2 ♂♂ 1 ♀; 12.vii.2006, 3 ♂♂ 3 ♀♀; 27.vi.2008, 9 ♂♂. Sudoměřický potok, 210 m (128), 12.vii.2006, 1 ♂ 1 ♀; 27.vi.2008, 2 ♂♂. Sudoměřický potok, 190 m (129), 27.vii.2005, 5 ♂♂ 2 ♀♀. Rybnický potok, 380–400 m (136), 5.vii.2005, 5 ♂♂; 14.vi.–10.viii.2010, 3 ♂♂ 8 ♀♀, MT, CM. Sviborka, 350–355 m (145), 31.vii.2004, 2 ♂♂ 3 ♀♀. Vlára, 345 m (146), 31.vii.2004, 9 ♂♂ 10 ♀♀. Rokytenka, 370 m (166), 14.vii.2009, 3 ♂♂. Rokytenka, 330 m (172), 14.vii.2009, 11 ♂♂ 10 ♀♀. Zelenský potok, 325–330 m (181), 16.vii.2009, 7 ♂♂ 1 ♀. Brumovka, 340–355 m (196), 31.vii.2004, 4 ♂♂. LT Brumovka, 400–430 m (198), 13.vii.2006, 1 ♀, L. Vlára, 285 m (236), 24.vii.2005, 1 ♀; 12.vii.2006, 5 ♂♂ 6 ♀♀; 14.vii.2006, 4 ♀♀, L; 15.vii.2009, 8 ♂♂ 8 ♀♀. Vlárka, 290–320 m (246), 24.vii.2005, 1 ♀. Žitkovský potok, 440–450 m (276), 19.vi.2007, 2 ♂♂ 3 ♀♀; 11.vii.2007, 12 ♂♂ 4 ♀♀. Žitkovský potok, 360–380 m (281), 11.vii.2007, 1 ♂ 1 ♀. Hrubár, 435 m (295), 31.vii.2010, 2 ♂♂ 1 ♀. Hrubár, 365–370 m (305), 28.vi.2008, 3 ♂♂ 4 ♀♀; 11.viii.2008, 2 ♀♀. Klanečnice, 450 m (308), 22.vi.2007, 1 ♂ 2 ♀♀; 4.viii.2007, 2 ♂♂. RT Klanečnice, 460–500 m (312), 15.vi.–12.viii.2010, 1 ♂ 2 ♀♀, MT, CM. Svinárský potok, 390–420 m (320), 7.vii.2005, 1 ♂ 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Widespread and common in submontane and colline streams. **Red List status:** –.

***Athripsodes cinereus* (Curtis, 1834)**

Material examined. Velička, 205 m (103), 27.vii.2005, 1 ♂, L. Rybnický potok, 410–445 m (135), 18.vi.–9.vii.2007, 1 ♀, MT, CJM. Vlára, 285 m (236), 12.vii.2006, 1 ♀; 14.vii.2006, 1 ♂ 1 ♀, L; 15.vii.2009, 2 ♀♀. Reservoir E Žitková (280), 11.vii.2007, 2 ♂♂.

Distribution and frequency in the Bílé Karpaty PLA: Found only infrequently. **Red List status:** –.

Comments. Generally common in streams, as well as in standing waters at lower and medium altitudes in the Czech Republic.

***Ceraclea albimacula* (Rambur, 1842)**

Material examined. Velička, 205 m (103), 27.vii.2005, 3 ♂♂ 1 ♀, L. Vlára, 285 m (236), 24.vii.2005, 1 ♂; 14.vii.2006, 26 ♂♂ 19 ♀♀, L; 15.vii.2009, 1 ♂.

Distribution and frequency in the Bílé Karpaty PLA: It prefers streams of lower altitudes and was found only in the lowermost sites in the Vlára and Velička streams. **Red List status:** –.

***Ceraclea dissimilis* (Stephens, 1836)**

Material examined. Velička, 205 m (103), 27.vii.2005, 9 ♂♂ 5 ♀♀, L. Vlára, 285 m (236), 14.vii.2006, 167 ♂♂ 61 ♀♀, L.

Distribution and frequency in the Bílé Karpaty PLA: Abundant only in the lower reach of streams in the colline zone. **Red List status:** –.

***Leptocerus interruptus* (Fabricius, 1775) (CR)**

Published record. OBR (1969): Vlára, 285 m (236).

Distribution and frequency in the Bílé Karpaty PLA: There is a single old record from the lower stretch of the Vlára river. The species has not been confirmed at this site during our recent survey. **Red List status:** CR.

Comments. Very rare in streams in the Czech Republic, not recorded in Moravia in recent years.

***Mystacides azurea* (Linnaeus, 1761)**

Material examined. Pond S Komňa (17), 22.v.2010, 1 ♀. Luhačovický potok, 285 m (33), 27.vi.2010, 1 ♂ 1 ♀; 9.x.2010, 3 ♂♂. Velička, 400–420 m (83), 16.ix.2009, 1 ♂. Velička, 325–350 m (95), 4.vii.2005, 1 ♂. Velička, 205 m (103), 15.ix.2009, 4 ♂♂ 2 ♀♀. Sudoměřický potok, 190 m (129), 27.vii.2005, 1 ♂. Vlára, 345 m (146), 31.vii.2004, 2 ♂♂. Říka, 375 m (152), 27.ix.2009, 1 ♂. Hajnice pond (171), 14.vii.2009, 1 ♂ 1 ♀. Vlára, 285 m (236), 12.vii.2006, 2 ♂♂. Krátkovský potok, 420 m (267), 5.viii.2007, 1 ♂.

Distribution and frequency in the Bílé Karpaty PLA: Uncommon in running and standing waters in the colline and submontane zones. **Red List status:** –.

***Mystacides longicornis* (Linnaeus, 1758)**

Material examined. Pond S Lipov (105), 3.viii.2004, 1 ♂, L.

Distribution and frequency in the Bílé Karpaty PLA: Known from a single record. **Red List status:** –.

Comments. Generally preferring standing waters of lower altitudes.

***Mystacides nigra* (Linnaeus, 1758)**

Material examined. Bojkovice reservoir (12), 23.v.2010, 3 ♂♂. Kolelač, 295 m (13), 26.vi.2010, 1 ♂. Lom Rasová NM (14), 21.v.2006, 7 ♂♂ 3 ♀♀; 15.vii.2006, 1 ♂ 2 ♀♀; 23.vi.2007, 1 ♂ 1 ♀, L; 10.viii.2008, 1 ♂. Pond S Komňa (17), 22.v.2010, 3 ♂♂. Kladenka, 265 m (24), 15.vii.2009, 2 ♂♂. Luhačovický potok, 325 m (27), 1.viii.2010, 1 ♀. Luhačovický potok, 285 m (33), 1.viii.2010, 1 ♀. Lubná reservoir (43), 10.vii.2007, 12 ♂♂ 1 ♀. Velička, 205 m (103), 20.v.2005, 1 ♂. Pond S Lipov (105), 3.viii.2004, 3 ♂♂ 2 ♀♀, L. Kuželovský potok, 204–212 m (106), 16.vii.1958, 1 ♀, S. Obr lgt. Radějovka, 315 m (110), 4.viii.2004, 14 ♂♂ 1 ♀. Radějovka, 270 m (117), 20.vi.2006, 1 ♂; 26.vi.2008, 1 ♂ 1 ♀; 14.vii.2008, 3 ♂♂. Radějovka, 195 m (118), 12.vii.2006, 1 ♂. Pond, Kútky (122), 26.vi.2008, 2 ♂♂. Mlýnky reservoir (126), 27.vi.2008, 7 ♂♂. Sudoměřický potok, 220 m (127), 12.vii.2006, 1 ♂ 1 ♀. Sudoměřický potok, 210 m (128), 12.vii.2006, 1 ♂.

Caddis flies (Trichoptera)

Pond N Slavičín (160), 23.v.2010, 7 ♂♂ 1 ♀. Rokytenka, 330 m (172), 14.vii.2009, 5 ♂♂ 5 ♀♀. Ponds SE Valašské Klobouky (192), 31.vii.2004, 2 ♂♂ 1 ♀. Brumovka, 340–355 m (196), 31.vii.2004, 1 ♂ 1 ♀. Vlára, 285 m (236), 24.vii.2005, 24 ♂♂ 5 ♀♀; 12.vii.2006, 4 ♂♂ 1 ♀. Reservoir E Žitková (280), 11.vii.2007, 4 ♂♂ 2 ♀♀. Hrubár, 365–370 m (305), 28.vi.2008, 2 ♂♂. Klanečnice, 450 m (308), 22.vi.2007, 1 ♂ 1 ♀.

Distribution and frequency in the Bílé Karpaty PLA: Quite common in streams and standing waters up to *ca.* 550 m a.s.l. **Red List status:** –.

Oecetis lacustris (Pictet, 1834)

Material examined. Lom Rasová NM (14), 23.vi.2007, 14 ♂♂, L; 31.v.2008, 4 ♂♂ 2 ♀♀.

Distribution and frequency in the Bílé Karpaty PLA: A limnobiontic species, rare in the area (found only in a pool in an abandoned quarry). **Red List status:** –.

Comments. Generally common elsewhere in the Czech Republic.

Oecetis ochracea (Curtis, 1825)

Material examined. Velička, 205 m (103), 27.vii.2005, 1 ♀, L.

Distribution and frequency in the Bílé Karpaty PLA: Only a single specimen was recorded in the area. **Red List status:** –.

Comments. Generally common in standing waters at lower and medium altitudes in the Czech Republic.

Oecetis tripunctata (Fabricius, 1793)

(CR)

Material examined. Radějovka, 270 m (117), 26.vi.2008, 1 ♂.

Distribution and frequency in the Bílé Karpaty PLA: Only a single specimen was collected in the stretch of the Radějovka stream with pools. **Red List status:** CR.

Comments. A very rare species in the Czech Republic (CHVOJKA & NOVÁK 2001), recorded for the first time for Moravia only recently (CHVOJKA & KOMZÁK 2008). It may be, however, relatively frequent in the lower stretch of the Morava and Dyje rivers.

Discussion and conclusions

Altogether 123 species of Trichoptera have been found in the Bílé Karpaty PLA to date. This number represents almost 48% of the total number of species of Trichoptera known in the Czech Republic and it is comparable to other montane regions in the Czech Republic for which detailed surveys of Trichoptera have been made (e.g. the Šumava National Park: 124 species, NOVÁK 1996; the Jizerské hory PLA: 110 spp., CHVOJKA 2008; the Orlické hory PLA: 111 spp., MACEK *et al.* 2005).

During our survey in the Bílé Karpaty PLA, several species were discovered for the first time for the territory of the Czech Republic (*Synagapetus armatus*, *S. dubitans*, *Hydroptila lotensis*, and *H. vichtaspa*) or Moravia (*Rhyacophila pubescens*, *Hydroptila angulata*, *H. angustata*, *Hydropsyche fulvipes*, *Agrypnia varia*, and *Ernodes vicinus*); these records have already been reported in detail by KOMZÁK & CHVOJKA (2005), CHVOJKA & KOMZÁK (2008), CHVOJKA *et al.* (2009), and KOMZÁK & KROČA (2011). From the biogeographical viewpoint, the occurrence of the Ponto-Mediterranean species *Hydroptila vichtaspa*, distributed from Iran throughout most of Anatolia and southern Europe, in central Europe is interesting. Several Carpathian species, namely *Synagapetus armatus*, *Chaetopteryx polonica*, and *Potamophylax carpathicus*, reach their westernmost limits of distribution in the Bílé Karpaty Mts. and thus also represent noteworthy biogeographical elements. While *S. armatus* was found only in the north-eastern part of the Bílé Karpaty PLA (Chmelovská hornatina Mts.), *C. polonica* extends to its central part (Lopenická hornatina Mts.), and *P. carpathicus* even to the south-western part (Javořinská hornatina Mts.). Differences in distributions of other caddisfly species in the Bílé Karpaty PLA probably largely reflect their altitude and habitat requirements.

From the viewpoint of nature conservation, the occurrence of many rare species in the Bílé Karpaty PLA is important. Seven species (*Agapetus delicatulus*, *Allotrichia pallicornis*, *Hydroptila angustata*, *H. occulta*, *H. vichtaspa*, *Leptocerus interruptus*, and *Oecetis tripunctata*) are classified as critically endangered, three species (*Hydropsyche fulvipes*, *Beraemyia hrabei*, and *Ernodes vicinus*) as endangered, and 11 species (*Rhyacophila philopotamoides*, *Synagapetus armatus*, *S. moselyi*, *Hydroptila vectis*, *Holocentropus stagnalis*, *Polycentropus irroratus*, *Limnephilus fuscicornis*, *Chaetopteryx polonica*, *Potamophylax carpathicus*, *Stenophylax vibex*, and *Lithax obscurus*) as vulnerable in the national Red List of threatened invertebrates (CHVOJKA *et al.* 2005). Another species rarely recorded in the area, *Synagapetus dubitans*, was discovered for the Czech Republic only recently (CHVOJKA *et al.* 2009); for this reason it has not yet been included in the Red List even though it is probably threatened as well (the Bílé Karpaty PLA is the only region in which this species is known to occur in the Czech Republic). *Leptocerus interruptus* was collected in the Bílé Karpaty PLA only in 1958 (OBR 1969) and has not recently been confirmed in the Vlára river; its disappearance here may probably be attributed to deteriorating water quality in the second half of the 20th century.

The Bílé Karpaty Mts. are part of the flysch zone of the Outer Western Carpathians, an area characterized by generally unfavourable hydrological conditions (because of the

limited occurrence of ground water, springs of mostly small and unstable well capacity, and watercourses with high discharge fluctuations) and also by common tufa deposits in springs and brooks (due to the considerable amount of calcium carbonate in the Magura flysch layers) (MACKOVČIN & JATIOVÁ 2002, PECHANEC & JONGEPIEROVÁ 2008). The calcareous spring areas and brooks in the area are fairly unique habitats for Trichoptera in the context of the Czech Republic, characterized by abundant populations of the calciphilous species *Rhyacophila pubescens* and *Tinodes unicolor*. Springs in the Bílé Karpaty Mts. are generally valuable habitats, with many crenophilous species of Trichoptera, including some rare species of Glossosomatidae and Beraeidae. Despite the high discharge fluctuations and unstable substratum, the streams of the Bílé Karpaty Mts. are inhabited by species-rich caddis fly taxocenoses. In brooks, e.g. *Rhyacophila philopotamoides* and *Hydropsyche fulvipes* are frequently abundant, while they are quite rare elsewhere in the Czech Republic. *Agapetus delicatulus* is currently known from only two colline streams in the Bílé Karpaty PLA in the Czech Republic.

In conclusion, the caddis fly fauna of the Bílé Karpaty PLA is quite diverse and includes a high proportion of rare and threatened species, some of which are even common and abundant in this area, unlike elsewhere in the Czech Republic. In this respect, the Bílé Karpaty PLA undoubtedly represents a region of great interest for the conservation of Trichoptera.

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Souhrn

Chrostíci (Trichoptera) Chráněné krajinné oblasti a biosférické rezervace Bílé Karpaty.

V letech 2004–2010 byl uskutečněn intenzivní faunistický výzkum chrostíků (Trichoptera) na území Chráněné krajinné oblasti a biosférické rezervace Bílé Karpaty. Po celém území oblasti bylo celkem sledováno 326 lokalit, zahrnujících různé typy vodních biotopů. Celkem bylo nalezeno 121 druhů chrostíků patřících do 17 čeledí. Mezi zjištěnými chrostíky je řada vzácných druhů, klasifikovaných v Červeném seznamu ohrožených druhů bezobratlých České republiky v různém stupni ohrožení, a to jmenovitě sedm kriticky ohrožených druhů

(*Agapetus delicatulus*, *Allotrichia pallicornis*, *Hydroptila angustata*, *H. occulta*, *H. vichtaspa*, *Oecetis tripunctata*), tři ohrožené (*Hydropsyche fulvipes*, *Beraemyia hrabei*, *Ernodes vicinus*) a 11 zranitelných (*Rhyacophila philopotamoides*, *Synagapetus armatus*, *S. moselyi*, *Hydroptila vectis*, *Holocentropus stagnalis*, *Polycentropus irroratus*, *Limnephilus fuscicornis*, *Chaetopteryx polonica*, *Potamophylax carpathicus*, *Stenophylax vibex*, *Lithax obscurus*). Při výzkumu vodního hmyzu provedeném v roce 1958 Stanislavem Obrem, jehož materiál je v této práci rovněž vyhodnocen, byly v Bílých Karpatech nalezeny ještě další dva druhy (*Limnephilus vittatus* a *Leptocerus interruptus*), jejichž výskyt se však nepodařilo v současnosti potvrdit. Celkem tak bylo z CHKO a BR Bílé Karpaty doloženo 123 druhů chrostíků, což představuje téměř 48 % z celkového počtu druhů řádu Trichoptera, vyskytujících se v České republice. Z faunistického hlediska patří k zajímavým nálezům výskyt druhu *Hydroptila vichtaspa*. Jedná se o jediné naleziště tohoto pontomediterránního druhu ve střední Evropě. Pro karpatské druhy *Synagapetus armatus*, *Chaetopteryx polonica* a *Potamophylax carpathicus* představují Bílé Karpaty nejzápadnější oblast jejich výskytu. V potocích s pěnovcovými usazeninami se v Bílých Karpatech hojně vyskytují kalcifilní druhy *Rhyacophila pubescens* a *Tinodes unicolor*, jinak známé v ČR pouze z několika málo dalších lokalit. K velmi cenným biotopům v CHKO Bílé Karpaty z hlediska fauny chrostíků patří především prameniště, kde se vyskytuje řada vzácných druhů z čeledí Glossosomatidae a Beraeidae.

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Moth flies (Diptera: Psychodidae) of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic)

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JEŽEK J. & OMELKOVÁ M. 2012: Moth flies (Diptera: Psychodidae) of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic). In: MALENOVSKÝ I., KMENT P. & KONVIČKA O. (eds.): Species inventories of selected insect groups in the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic). *Acta Musei Moraviae, Scientiae biologicae* (Brno) **96(2)** (2011): 763–802. – An account of the family Psychodidae in the Bílé Karpaty Protected Landscape Area (south-eastern Moravia, Czech Republic) is provided. In the course of a survey of 78 localities in 2005–2010 in the Moravian part of the White Carpathian Mts., a total of 39 genera and 108 species of moth flies were recorded, including many species considered threatened or rare in the Czech Republic at national level (13 species are classified as critically endangered, nine as endangered and four as vulnerable in the Red List of threatened invertebrates of the Czech Republic, and 28 additional species are known to occur only sparsely in the country). *Psychomormia vaillantii* (Wagner, 1977) and *Apsycha pusilla* (Tonnoir, 1922) are new for the fauna of Moravia and *Philosepedon perdecorum* Omelková et Ježek, 2012 and *Pneumia kabelaki* Omelková et Ježek, 2012 have been described from Kněždubský háj forest and Sidonie nature reserve respectively as new for science in parallel papers. A brief general account of distribution and ecology is provided for all the taxa recorded.

Key words. Diptera, Psychodidae, faunistics, biogeography, new records, species conservation, White Carpathians, Moravia, Czech Republic

Introduction

The family Psychodidae (moth flies) is taxonomically one of the most difficult groups of nematocerous Diptera, relatively well-represented in the Palaearctic region with almost 500 known species (WAGNER 1990) of which 172 occur in the Czech Republic (JEŽEK 2009a, JEŽEK *et al.* 2012). Adult moth flies (size 2–3 mm) occur in wet, shaded habitats in the neighbourhood of springs, water reservoirs, and especially small bodies of running water. Generally, the adults have not been observed to feed in the wild; however, females of the Sycoracinae are known to suck the blood of certain amphibians. The larvae of Psychodidae often develop in decaying organic matter and leaf packs in peat-forming spring fens and mires (genera *Peripsychoda*, *Clytocerus*, *Pneumia*, and *Ulomyia*) or on gravel and stony fractions of substrate with moss polsters in tufa-forming fens (subtribe Mormiina, and genera *Berdeniella* and *Pericoma*). Some larvae are associated with wet mosses (*Mormia*, *Pericoma*, *Tonnoiriella*), mollusc shells (*Philosepedon*), sandy sediments (*Parajungiella*), fungi (*Chodopsycha*), or are found in the slime film covering stones in streams (*Berdeniella* and *Parabazarella*), rotten parts of

fallen trees (*Trichomyia*), dendrothelmae (*Sciria*), and forest wallows (*Logima*); some Psychodini are coprophilous and urinophilic (OMELKOVÁ *et al.* 2006, 2007, 2008).

The Bílé Karpaty Mts. [White Carpathians], situated in the south-eastern part of the Czech Republic along the borders with Slovakia, form the western edge of the Western Carpathian flysch belt. The area is known for the presence of many calcareous spring mires and other wetland habitats (POULÍČKOVÁ *et al.* 2005, HÁJEK *et al.* 2006) that are generally rich in species of Psychodidae. However, until recently, the psychodid fauna of the White Carpathians as well as of the whole of south-eastern Moravia was largely unknown, except for eight species collected in the vicinity of the town of Uherské Hradiště (JEŽEK 1983, 1985, 1990a, b). To fill this gap, we undertook intensive field sampling in 2005–2010 in the Czech (Moravian) part of the White Carpathians, an area falling largely within the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (abbreviated to Bílé Karpaty PLA hereafter). We present the results of our faunistic investigation in this paper, the first complete list of the Psychodidae of the region. Some partial results relevant to the faunistics and taxonomy of the Psychodidae of the White Carpathians deriving from the same project have already been included in papers by JEŽEK (2006a, 2009b), JEŽEK & OMELKOVÁ (2007), OMELKOVÁ *et al.* (2008), and OMELKOVÁ & JEŽEK (2012a,b).

Material and methods

Many thousands of specimens of moth flies were collected at a total of 78 localities situated mostly in the Bílé Karpaty PLA (as well as in a few adjacent sites outside the administrative borders of the Protected Landscape Area, e.g. in the environs of Horní Lideč). Most of the material was collected in the period 2005–2010 by a variety of methods, mainly by using Malaise traps, frequently by sweep-netting and rarely with yellow pan traps (filled with water with a few drops of detergent added, exposed in the field for five days). The Malaise traps were emptied at about three-week intervals (only the dates of sample removal are given for each record in the list of material examined). Captured moth flies were preserved in 75% ethanol and selected specimens were later mounted on slides in Canada balsam (altogether nearly 1130 specimens were mounted to document each species for the different localities and sampling dates). The material is deposited in the collection of the National Museum, Prague, with some alcohol samples in the private collection of Markéta Omelková, Brno as well. The material was identified by the authors of the paper. Classification and nomenclature follow JEŽEK (2009a). Conservation status for individual species is given according to the Red List of threatened invertebrates of the Czech Republic (JEŽEK 2005). A general natural history of the whole area under study may be found in KUČA *et al.* (1992), MACKOVČIN & JATIOVÁ (2002), JONGEPIEROVÁ (2008), and KONVIČKA *et al.* (2012).

The following abbreviations are used in the paper: NM – Nature Monument, NNR – National Nature Reserve, NR – Nature Reserve, PLA – Protected Landscape Area (all of these are the various categories and terms specified by the Czech system of legally protected natural areas); MT – Malaise trap, YPT – yellow pan traps, SW – sweep-

netting; C – P. Chvojka leg., J – J. Ježek leg. & det., K – P. Komzák leg., M – J. Macek leg., O – M. Omelková leg. & det. (e.g. JCM – J. Ježek, P. Chvojka & J. Macek leg., J. Ježek det.; CM – P. Chvojka & J. Macek leg., J. Ježek det.); CR – critically endangered species, EN – endangered species, VU – vulnerable species (the latter three all categories derived from the Red List of threatened invertebrates of the Czech Republic, *cf.* JEŽEK 2005).

List of collecting sites

Each entry in the list of collecting sites is arranged as follows: number of locality, name of the nearest village or town, local name of the collecting site or name of a small-scale protected area (reserve) if appropriate, code of the field (in parentheses) in the faunistic and floristic grid mapping system of central Europe (EHRENDORFER & HAMANN 1965, ZELENÝ 1972, PRUNER & MÍKA 1996; each basic field divided into 16 subfields, *cf.* KONVIČKA *et al.* 2012), GPS coordinates (specified for the Malaise traps and small, well-defined localities only), altitude, and habitat.

1. Luhačovice, Gáborka brook (6872d3), 420 m a.s.l.; beech forest, pound lock.
2. Luhačovice, Obětová hora hill (6872d3), 511 m a.s.l.; forest road with wet side ditches.
3. Petrůvka, U Petrůvky NM (6872d4), 49°06'35"N 17°48'39"E, 430 m a.s.l.; meadow on a slope above a forest brook.
4. Lipová (near Slavičín) – source 1 km NW of village (6873c1), 472 m a.s.l.; spring, forest margin.
5. Nevšová, Lazy – along Nevšovka brook (6873c1), 406–430 m a.s.l.; meadows.
6. Nevšová, Uhliska hill – 1 km W of the hilltop (6873c1), 459 m a.s.l.; forest margin, swamps.
7. Haluzice – 2 km W of village (6873c2), 490 m a.s.l.; spring area, slough, pine grove, pedestrian path.
8. Lipová (near Slavičín) (6873c4), 49°07'24"N 17°52'38"E, 397–415 m a.s.l.; polluted brook in the SE part of the village.
9. Brumov-Bylnice, Hložec – between Hložec and Brumov-Bylnice (6873d4), 410 m a.s.l.; alluvium, forest brook.
10. Brumov-Bylnice, Kulajka (6873d4), 370 m a.s.l.; erosive furrow in beech forest, rill.
11. Lačnov, Seninka brook – NE of Lačnov (6874a1), 475 m a.s.l.; forest margin, meadows, dried marshes.
12. Horní Lideč, Lačnovské rybníky ponds (6874a4), 475 m a.s.l.; camping ground, dried gutters.
13. Valašské Příkazy (6874a4), 450 m a.s.l.; brook, meadows, fields.
14. Študlov, Požár hill (6874b3), 791 m a.s.l.; forest stream with water splash, spring areas.
15. Valašské Klobouky, Javorůvky NR (6874c1), 49°08'05"N 18°02'05"E, 520–590 m a.s.l.; meadows, small forest brooks, spring areas, slope treeless tufa fens.
16. Valašské Klobouky, Královec hill – NW of the hilltop (6874c1), 655 m a.s.l.; small brook, alluvium, meadows, forest margin, timbered chapel.
17. Valašské Klobouky (6874c1), 430 m a.s.l.; small ponds, swamps and drainages near railway station, forest.
18. Návojná, Hluboké údolí valley (6874c2), 418 m a.s.l.; forest brook with water splash, well, swamps.
19. Poteč, Ploščiny NR (6874c2), 49°08'40"N 18°03'46"E, 630 m a.s.l.; slope spring area, wet meadows.
20. Valašské Klobouky, Bílé potoky NR (6874c3), 49°06'56"N 18°01'38"E, 420 m a.s.l.; slope meadow spring areas, calcareous fens with tufa formation, rills, forest margins.
21. Brumov-Bylnice, Hložec (6874c3), 395 m a.s.l.; forest brook.
22. Návojná – 0.5 km N of village (6874c4), 439 m a.s.l.; brook and swamps.

23. Nedašov, Jalovcová stráň NR (6874d3), 400 m a.s.l.; small brook, pastures with scattered shrubs on slopes.
24. Nedašov, Kaňoury NM (6874d3), 660 m a.s.l.; small brook, spring, slopes with shrubs.
25. Nedašov, Lapač (6874d3), 625 m a.s.l.; meadow spring area, forest edge.
26. Petrůvka, Kladenka brook (6972b2), 49°05'50"N 17°48'53"E, 390 m a.s.l.; alluvium, forest, meadows.
27. Záhorovice, Valy hill (6972d3); 430 m a.s.l.; forest spring fen.
28. Bojkovice, Bažantnice pond – between Bojkovice and Komňa (6972d4), 294 m a.s.l.; small pond and brook with a pound lock.
29. Nevšovka brook, between Slavičín and Rudimov (6973a1), 420–440 m a.s.l.; alluvium, meander (1 km W of Slavičín).
30. Štítná nad Vláří-Popov, Havránkův potok brook (6973b2); 313–470 m a.s.l.; alluvium.
31. Brumov-Bylnice, Bylnička brook – between Díly and Dolní Duboviny (6974a2), 475 m a.s.l.; forest headwaters, beech forest.
32. Brumov-Bylnice, Lazy NR (6974a3), 375 m a.s.l.; small forest rill.
33. Brumov-Bylnice, Bylničky – Heriánův láz (6974a4), 450 m a.s.l.; meadow spring area in beech forest, small well (overshaded by roof), swampy soil, spring fen.
34. Svatý Štěpán, Hluboče NM – Hlubočská stráň slope, Hlubočský potok brook (6974a4), 430–490 m a.s.l.; slope spring area.
35. Sidonie, Sidonie NR (6974a4), 49°03'04"N 18°04'17"E, 450 m a.s.l.; beech forest.
36. Sidonie, Kopanice (6974b3), 49°02'22"N 18°04'11"E, 440 m a.s.l.; beech forest, brook, wet game path.
37. Svatý Štěpán, Chladný vrch NM (6974c1), 49°01'34"N 18°00'32"E, 595 m a.s.l.; forest swamps, crib and small pond.
38. Svatý Štěpán, Pláňava (6974c1), 575 m a.s.l.; beech forest, swamps.
39. Sidonie – near Hostinec u Pekařů Inn (6974c2), 375 m a.s.l.; outflow of small pound lock, cascades, rotten wood.
40. Sidonie, Mlýn (6974c2), 49°02'00"N 18°03'37"E, 350 m a.s.l.; forest margin, seepage water.
41. Sidonie, Vlárský průsmyk pass – junction of Vlárka brook and Vlára river (6974c2), 272 m a.s.l.; alluvium, rotten hay.
42. Horní Němčí, Dubníček (7071d2), 48°55'42"N 17°38'50"E, 478 m a.s.l.; swampy pastures, spring areas, pastoral huts, cowpats.
43. Horní Němčí (7071d2), 350 m a.s.l.; pond, polluted water.
44. Horní Němčí, Luh – Okluky brook valley (7071d4), 350–610 m a.s.l.; deep valley with steep shrubby slopes.
45. Březová, Kalábová NM (7072c2), 518–550 m a.s.l.; forest spring areas, slope treeless calcareous fens with tufa formation, wallow, crib.
46. Lopeník, Hrubý Mechnáč (7072d2), 48°56'27"N 17°48'04"E, 716 m a.s.l.; meadow spring areas, slope treeless calcareous fens with tufa formation, pastures.
47. Žitková, Hutě NR (7073a2), 48°59'24"N 17°54'21"E, 460 m a.s.l.; swampy meadows with scattered reed, slope spring areas, rotten hay, brook.
48. Starý Hrozenkov, Lozky – 1.5 km NW of Starý Hrozenkov (7073a3), 420 m a.s.l.; meadow slope spring area, small brook, pastures.
49. Vyškovec, Chmelínek NM (7073c1), 48°56'26"N 17°51'17"E, 384 m a.s.l.; slope spring fen, wet meadows near a road, brook.
50. Vyškovec, Drietomice brook – SE of Vyškovec (7073c1), 510 m a.s.l.; forest valley, brook, slope spring area.
51. Sudoměřice nad Moravou – Sudoměřický potok brook (7169b3), 202–239 m a.s.l.; alluvium.
52. Radějov, Žerotín NM (7169b4), 48°51'44"N 17°19'42"E, 304 m a.s.l.; dry meadow on a hilltop.
53. Kněždub, Čertoryje NNR – Járkovec brook (7170a4), 48°51'22"N 17°24'29"E, 320 m a.s.l.; shallow swampy valley, shrubs.

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54. Kněždub, Čertoryje NNR (7170a4), 48°51'35"N 17°24'17"E, 340 m a.s.l.; meadows with scattered trees.
55. Kněždub, Kejda pond (7170a4), 340 m a.s.l.; outflow and inflow, swamps.
56. Radějov, Lučina (7170a4), 323 m a.s.l.; stone-block water chanel.
57. Kněždub – between Šumárník and Výzkum hills (7170a4); forest swamps, rotten wood.
58. Kněždub, Traviska – along Radějovka brook (7170a4), 323 m a.s.l.; alluvium.
59. Kněždub, Čertoryje NNR – Radějovka brook (7170b3), 48°51'31"N 17°25'50"E, 355–360 m a.s.l.; alluvium of a meandering stream.
60. Radějov, Kútky NR – Mandát brook (7170c2), 48°49'43"N 17°22'47"E, 350 m a.s.l.; small pond, forest margin, wind-thrown tree.
61. Radějov, Kútky NR (7170c2), 48°50'05"N 17°23'05"E, 415 m a.s.l.; wet meadows, pastures of fallow deers.
62. Velká nad Veličkou, Zahrady pod Hájem NNR (7171a1), 48°53'04"N 17°31'59"E and 48°53'09"N 17°32'00"E, 385 m a.s.l.; remnants of species-rich meadows, shrubs.
63. Javorník, Jazevčí NNR (7171a4), 48°52'12"N 17°33'55"E, 360 m a.s.l.; brook (left tributary of Velička stream), forest margin.
64. Javorník, Jazevčí NNR (7171a4), 48°52'09"N 17°33'24"E, 415 m a.s.l.; species-rich meadows on slopes with small woods.
65. Nová Lhota, Hryzlácké Mlýny (7171b1), 48°53'10"N 17°36'08"E, 450 m a.s.l.; meadows and pastures with scattered trees.
66. Suchov, Kazivec brook – E of village (7171b1), 460 m a.s.l.; alluvium, forest.
67. Nová Lhota, Vápenky – left tributary of Velička brook (7171b3), 48°52'16"N 17°36'58"E, 435 m a.s.l.; alluvium with shrubs, country cottage colony.
68. Nová Lhota, Vápenky – Hubertova chata hut (7171b4), 48°51'43"N 17°39'07"E, 563 m a.s.l.; beech forest, slope spring area.
69. Javorník, Machová NR (7171c1), 48°49'37"N 17°31'41"E, 460 m a.s.l.; meadows on slopes.
70. Javorník, Machová NR – Rybnický potok brook (7171c1), 48°49'41"N 17°32'32"E, 400 m a.s.l.; alluvium.
71. Javorník, Filipovské údolí valley – between Liščí bouda hunting lodge and Megovka hostel (7171c2), 379 m a.s.l.; brook, small bridge, swampy area in beech forest.
72. Javorník, Machová NR – Rybnický potok brook (7171c2), 425 m a.s.l., 48°49'59"N 17°32'05"E; alluvium of forest brook, marshes.
73. Javorník, Machová NR (7171c3), 48°49'21"N 17°31'20"E, 445 m a.s.l.; species-rich meadows, forest margin.
74. Strání, Záhumenice NM (7172a1), 48°53'48"N 17°41'12"E, 460 m a.s.l.; forest brook.
75. Březová, Janáčkův pramen spring (7172a2/7072c4), 550 m a.s.l.; forest margin, slope spring areas.
76. Strání, Svinárský potok brook (7172a3), 48°52'00"N 17°40'37"E, 510 m a.s.l.; beech forest, boulder stream bed.
77. Strání, Javorina NNR – peak (7172a3), 48°51'23"N 17°40'09"E, 935 m a.s.l.; mountain meadow.
78. Strání, Javorina NNR – source of Velička brook (7172a3), 48°51'30"N 17°40'16"E, 500–800 m a.s.l.; rapid slope rubble spring area.

Annotated list of species

All material examined for each species is listed; individual records are ordered according to the number of the collecting site. Each record is arranged as follows: name of the collecting site and its number (in parentheses), date(s) of collection(s), number of specimens, collecting method, and collector(s). Published data are cited in a shortened form including the name of the collecting site and its number (in parentheses); additional information may be found in the original papers.

Apsycha pusilla (Tonnoir, 1922)

Material examined. Strání, Záhumenice NM (74), 25.v.2010, 1 ♂, MT, MC.

Comments. A Holarctic species, known from Austria, Great Britain, Italy, Czech Republic (Bohemia), Poland, Lithuania, and many records from the USA (JEŽEK 2007, 2009b). It lives in farms and forest swampy areas, being coprophilous or coprobiontic. Scarce in the Czech Republic, recorded here for the first time for Moravia.

Atrichobrunettia (Mirousiella) graeca Ježek et Goutner, 1993 (VU)

Material examined. Radějov, Kútky NR – Mandát brook (60), 4.vi.2008, 1 ♂, MT, JCM. Nová Lhota, Vápenky (67), 3.vi.2009, 1 ♂, MT, JCM.

Comments. Known only from Greece, Albania, Czech Republic, Great Britain, and Ireland. It occurs in shaded habitats of forests or shrubby alluvium of small streams in hilly terrains. A vulnerable species in the Czech Republic.

Berdeniella kocii Ježek, 2006

Material examined. Lopeník, Hrubý Mechnáč (46), 28.viii.2008, 1 ♂, SW, J. Žitková, Hutě NR (47), 11.vi.2010, 3 ♂♂, SW, O.

Comments. A rare species, described on the basis of 60 males from several localities in the Jeseníky Mts. and subsequently found in the Czech Republic also in the Jizerské hory Mts.; otherwise known in Europe only from Slovakia (JEŽEK 2009c). Generally, it seems to be distributed in hilly and mountain areas and associated with rivers, streams, meadow brooks, pasture drains and forest swamps, as well as wet avalanche scars. Probably a threatened species in the Czech Republic which requires a further monitoring.

Berdeniella matthesi (Jung, 1954)

Material examined. Študlov, Požár hill (14), 6.vi.2006, 1 ♂, SW, J. Vyškovec, Chmelinec NR (49), 5.viii.2007, 1 ♂, MT, K. Nová Lhota, Vápenky – Hubertova chata hut (68), v.2005, 1 ♂, MT, JCM. Strání, Javorina NNR (78), 4.v.2005, 1 ♂, MT, JCM.

Comments. A locally common species in Europe; the knowledge on its distribution is, however, quite poor: so far it has been collected in Austria, Germany, Italy, Czech

Republic, and Slovakia, usually in hilly areas or mountains in shaded swamps with flocculated iron.

***Berdeniella unispinosa* (Tonnoir, 1919)**

Material examined. Valašské Klobouky, Bílé potoky NR (20), 30.vii.2006, 1 ♂, MT, O.

Comments. A European species, widespread from France to Poland and Slovakia, with the southern limit of the distribution in the Apennines and the Balkans. It prefers higher altitudes and is quite common in border mountains of the Czech Republic, associated here with forest spring areas, brooks, streams, and wet avalanche scars.

***Berdeniella vimmeri* Ježek, 1995**

Material examined. Študlov, Požár hill (14), 6.vi.2006, 1 ♂, SW, J. Valašské Klobouky, Javorůvky NR (15), 31.vii.2004, 1 ♂, SW, C. Sidonie, Sidonie NR (35), 5.v.2010, 1 ♂, MT, MC. Nová Lhota, Vápenky (67), 12.v.2009, 1 ♂, MT, JCM. Nová Lhota, Vápenky – Hubertova chata hut (68), v.2005, 1 ♂, MT, JCM. Strání, Svinárský potok brook (76), 29.viii.2005, 1 ♂, MT, JCM. Strání, Javorina NNR (78), 4.v.2005, 1 ♂, MT, JCM.

Comments. Probably a central European species; known largely from border mountain regions of the Czech Republic (Bohemia, Moravia, and Silesia), locally common. Originally, it was described from the vicinity of Prague; later it was also published from Slovakia (JEŽEK 2009b). It inhabits banks of forest streams, brooks, and spring areas.

***Chodopsycha buxtoni* (Withers, 1988)**

Material examined. Javorník, Jazevčí NNR (63), 25.vi.2009, 1 ♂, MT, JCM. Nová Lhota, Hryzlácké Mlýny (65), 22.vi.2009, 1 ♂, MT, JCM.

Comments. Known only from Great Britain, Czech Republic, and Slovakia (JEŽEK 2003, ŠEVČÍK 2006). Associated with fungi. Scarce in the Czech Republic.

***Chodopsycha lobata* (Tonnoir, 1940)**

Material examined. Petrůvka, U Petrůvky NM (3), 3.vi.2008, 1 ♀, MT, JCM. Valašské Klobouky, Bílé potoky NR (20), 25.vi. and 23.viii.2006, 17.vi.2007, 6 ♂♂, MT, O. Petrůvka, Kladenka brook (26), 3.vi.2008, 1 ♀, MT, JCM. Svatý Štěpán, Chladný vrch NM (37), 16.vi.2010, 1 ♀, MT, MC. Lopeník, Hrubý Mechnáč (46), 22.ix.2006, 1 ♂, MT, O. Žitková, Hutě NR (47), 22.ix.2006, 1 ♂, MT, O. Radějov, Žerotín NM (52), 5.viii.2008, 1 ♀, MT, JCM. Kněždub, Čertoryje NNR (54), 31.vii.2006, 1 ♀, MT, JCM. Radějov, Kútky NR – Mandát brook (60), 4.vi.2008, 1 ♀, MT, JCM. Radějov, Kútky NR (61), 26.vi.2008, 1 ♀, MT, JCM. Velká nad Veličkou, Zahrady pod Hájem NNR (62), 25.vi.2009, 1 ♂ 1 ♀, MT, JCM. Javorník, Jazevčí NNR (63), 25.vi. and 15.vii.2009, 2 ♀♀, MT, JCM. Javorník, Jazevčí NNR (64), 25.vi.2009, 1 ♂, MT, JCM. Nová Lhota, Hryzlácké Mlýny (65), 22.vi.2009, 1 ♀, MT, JCM. Javorník, Machová NR (69), 14.vi.2010, 1 ♂, MT, MC. Javorník, Machová NR – Rybnický potok brook (70), 24.v.2010, 1 ♂, MT, MC. Javorník, Machová NR (73), 9.vii.2007, 1 ♀, MT, JCM. Strání, Záhumenice NM (74), 25.v. and 15.vi.2010, 1 ♂ 1 ♀, MT, MC. Strání, Svinárský potok brook (76), 29.viii.2005, 1 ♀, MT, JCM. Strání, Javorina NNR – peak (77), 3.vi.2009, 1 ♂, MT, JCM.

Comments. A common species with a European and Transcaucasian distribution. Present in lowlands as well as in hills and mountains; associated with fungi.

Clytocyclus (Boreoclytocyclus) dalii (Eaton, 1893)

Material examined. Luhačovice, Gáborka brook (1), 30.vii.2007, 1 ♂, SW, J. Poteč, Ploštiny NR (19), 6.vi.2006, 1 ♂, SW, J. Nedašov, Lapač (25), 14.viii.2007, 1 ♂, SW, J. Sidonie, Sidonie NR (35), 5.v. and 25.v.2010, 2 ♂♂, MT, MC. Lopeník, Hrubý Mechnáč (46), 28.viii.2008, 1 ♂, SW, J. Nová Lhota, Vápenky – Hubertova chata hut (68), v.2005, 1 ♂, MT, JCM. Javorník, Filipovské údolí valley (71), 1.viii.2007, 1 ♂, SW, J. Strání, Svinárský potok brook (76), 29.viii.2005, 1 ♂, MT, JCM. Strání, Javorina NNR (78), 4.v.2005, 1 ♂, MT, JCM.

Comments. A European species, known from Belgium, Czech Republic, Denmark, Great Britain, Hungary, Ireland, Slovakia, and Slovenia. It occurs quite rarely in outflows of upland peat-bogs, forest spring areas and inundated meadows. Its biology is unknown.

Clytocyclus (Boreoclytocyclus) longicorniculatus Krek, 1987

Published records. JEŽEK (2009b): Lačnov, Seninka brook (11); Horní Lideč, Lačnovské rybníky ponds (12); Nedašov, Lapač (25); Petrůvka, Kladenka brook (26); Lopeník, Hrubý Mechnáč (46); Javorník, Machová NR – Rybnický potok brook (72). OMEJKOVÁ *et al.* (2008): Javorník, Machová NR (72).

Additional material examined. Kněždub, Čertoryje NNR – Radějovka brook (59), 5.v. and 25.v.2010, 2 ♂♂, MT, MC. Nová Lhota, Hryzlácké Mlýny (65), 12.v.2009, 1 ♂, MT, JCM. Nová Lhota, Vápenky (67), 12.v. and 3.vi.2009, 2 ♂♂, MT, JCM. Javorník, Machová NR – Rybnický potok brook (70), 24.v.2010, 1 ♂, MT, MC. Strání, Záhumenice NM (74), 15.vi.2010, 1 ♂, MT, MC.

Comments. Until recently, this species has been known only from Bosnia and Herzegovina. It seems, however, that it was probably generally overlooked in the course of routine identifications of alcohol samples and mistaken for *C. ocellaris* in the past. Besides the Bílé Karpaty Mts., it has been recently collected in the Czech Republic in southern Bohemia and also in Poland. The larvae are unknown but probably inhabit similar habitats as those of *C. ocellaris*. *Clytocyclus longicorniculatus* still awaits a detailed evaluation of its conservation status in the Czech Republic.

Clytocyclus (Boreoclytocyclus) ocellaris (Meigen, 1804)

Material examined. Haluzice (7), 22.vi.2005, 1 ♂, SW, J. Lačnov, Seninka brook (11), 15.viii.2007, 1 ♂, SW, J. Horní Lideč, Lačnovské rybníky ponds (12), 15.viii.2007, 1 ♂, SW, J. Študlov, Požár hill (14), 6.vi.2006, 1 ♂, SW, J. Valašské Klobouky, Javorůvky NR (15), 20.vi.2005, 1 ♂, SW, J. Poteč, Ploštiny NR (19), 6.vi.2006, 1 ♂, SW, J. Valašské Klobouky, Bílé potoky NR (20), 25.vi.2006, 12.viii. and 12.ix.2007, 3 ♂♂, MT, O. Petrůvka, Kladenka brook (26), 3.vi.2008, 1 ♂, MT, JCM. Brumov-Bylnice, Bylničky – Heriánův láz (33), 17.vi.2008, 1 ♂, SW, J. Svatý Štěpán, Chladný vrch NM (37), 24.v.2010, 1 ♂, MT, MC. Sidonie, Mlýn (40), 30.v.2007, 1 ♂, SW, J. Lopeník, Hrubý Mechnáč (46), 19.vii., 23.viii., 22.ix.2006 and 12.viii.2007, 4 ♂♂, MT, O; 7.viii. and 28.viii.2008, 2 ♂♂, SW, J. Žitková, Hutě NR (47), 25.vi.2006, 1 ♂, MT, O; 31.vii.2007, 1 ♂, SW, J. Starý Hrozenkov, Lozky (48), 29.vi.2006, 1 ♂, SW, J. Kněždub, Čertoryje NNR – Járkovec brook (53), 29.v.2006, 1 ♂, MT, JCM. Kněždub, Kejda pond (55), 21.ix.2005, 1 ♂, SW, J. Kněždub, Čertoryje NNR – Radějovka brook (59), 5.v. and 25.v.2010, 2 ♂♂, MT, MC. Radějov, Kútky NR – Mandát brook (60), 4.vi.2008, 1 ♂, MT, JCM. Nová Lhota, Vápenky (67), 12.v., 3.vi. and 15.vii.2009, 3 ♂♂, MT, JCM. Nová Lhota, Vápenky – Hubertova chata hut (68), v.2005, 1 ♂, MT, JCM. Javorník, Machová NR – Rybnický potok brook (70), 24.v.2010, 1 ♂, MT, MC. Javorník, Filipovské údolí valley (71), 1.viii.2007, 1 ♂, SW, J. Javorník, Machová NR – Rybnický potok brook (72), 2.viii.2007, 1 ♂, SW, J. Strání, Záhumenice NM (74), 12.viii.2010, 1 ♂, MT, MC.

Comments. A very common species, known largely from central and western Europe (including the British Isles), with limits of distribution in Finland, Lithuania, the Apennines and the Balkan Peninsula. Its larvae inhabit spring areas, alluvium of streams and the littoral zone of water reservoirs.

***Clytocerus (Boreoclytocerus) splendidus* Ježek et Hájek, 2007**

Published records. JEŽEK & HÁJEK (2007): Valašské Klobouky (17), two male paratypes. OMELKOVÁ *et al.* (2008): Valašské Klobouky, Javorůvky NR (15).

Additional material examined. Lopeník, Hrubý Mechnáč (46), 7.viii.2008, 1 ♂, SW, J. Kněždub, Čertoryje NNR – Radějovka (59), 25.v.2010, 1 ♂, MT, MC.

Comments. So far known only from the Czech Republic (both Bohemia and Moravia; the occurrence in Moravia was erroneously omitted in the check list by JEŽEK 2009a) and Poland. A scarce species of hills and mountains; it inhabits water reservoirs, ponds, forest pools, swamps, muddy wallows with flocculated iron, brooks, rills, and wet meadows. Biology unknown.

***Clytocerus (Boreoclytocerus) tetracorniculatus* Wagner, 1977 (CR)**

Published records. JEŽEK & OMELKOVÁ (2007), OMELKOVÁ *et al.* (2008): Žitková, Hutě NR (47).

Comments. A very rare species, known only from Germany, Czech Republic and Finland. The adults were collected in hilly areas in slope treeless tufa-forming fens, marshes and inundated meadows. Critically endangered in the Czech Republic.

***Coprosychoda brevicornis* (Tonnoir, 1940)**

Material examined. Petrůvka, U Petrůvky NM (3), 3.vi.2008, 1 ♀, MT, JCM. Valašské Klobouky, Bílé potoky NR (20), 12.viii.2007, 5 ♂♂, MT, O. Sidonie, Sidonie NR (35), 5.v.2010, 1 ♂, MT, MC. Svatý Štěpán, Chladný vrch NM (37), 16.vi.2010, 1 ♂, MT, MC. Březová, Kalábová NM (45), 22.x.2007, 1 ♂ MT, O. Lopeník, Hrubý Mechnáč (46), 22.vii. and 22.x.2007, 8 ♂♂, MT, O. Vyškovec, Chmelínek NR (49), 29.iv., 22.vii. and 21.x.2007, 7 ♂♂, MT, O. Vyškovec, Drietomice brook (50), 12.viii. and 22.x.2007, 7 ♂♂, MT, O. Radějov, Kútky NR – Mandát brook (60), 4.vi.2008, 1 ♀, MT, JCM. Javorník, Jazevčí NNR (64), 25.vi.2009, 1 ♀, MT, JCM. Nová Lhota, Vápenky (67), 12.v.2009, 1 ♀, MT, JCM. Strání, Záhumenice NM (74), 5.v., 25.v. and 15.vi.2010, 2 ♂♂ 1 ♀, MT, MC.

Comments. A common saprophagous species with a western Palaearctic distribution; known from the Czech Republic, Denmark, France, Germany, Great Britain, Ireland, the Netherlands, Norway, Russia, Slovakia, Sweden, and Turkey.

***Feuerborniella obscura* (Tonnoir, 1919)**

Material examined. Návojná, Hluboké údolí valley (18), 31.v.2007, 1 ♂, SW, J. Valašské Klobouky, Bílé potoky NR (20), 25.vi.2006, 1 ♂ MT, O. Návojná (22), 31.v.2007, 1 ♀, SW, J. Petrůvka, Kladenka brook (26), 3.vi.2008, 1 ♀, MT, JCM. Sidonie, Sidonie NR (35), 25.v.2010, 1 ♂, MT, MC. Svatý Štěpán, Chladný vrch NM (37), 16.vi.2010, 1 ♂, MT, MC. Sidonie (39), 30.v.2007, 1 ♂, SW, J. Sidonie, Mlýn (40), 30.v.2007, 1 ♂, SW,

J. Radějov, Kútky NR – Mandát brook (60), 4.vi.2008, 1 ♂, MT, JCM. Javorník, Jazevčí NNR (63), 25.vi.2009, 1 ♂, MT, JCM. Nová Lhota, Vápenky (67), 22.vi.2009, 1 ♂, MT, JCM. Strání, Záhumenice NM (74), 15.vi.2010, 1 ♀, MT, MC.

Comments. A common European species, distributed in central Europe, along the Atlantic coast, in the British Isles and reaching the Apennines and the Balkans in the south. It is known from habitats with sprayed moss polsters, spring areas and stream meanders across a wide range of altitudes.

Jungiella (Jungiella) hygrophila Ježek, 1987

Material examined. Petrůvka, U Petrůvky NM (3), 3.vi.2008, 1 ♂, MT, JCM. Nevšová, Lazy (5), 22.vi.2005, 1 ♂, SW, J. Nevšová, Uhliska hill (6), 22.vi.2005, 1 ♂, SW, J. Valašské Příkazy (13), 6.vi.2006, 1 ♂, SW, J. Návojná, Hluboké údolí valley (18), 31.v.2007, 1 ♂, SW, J. Valašské Klobouky, Bílé potoky NR (20), 23.v.2006, 1 ♂, MT, O. Návojná (22), 31.v.2007, 1 ♂, SW, J. Brumov-Bylnice, Bylničky – Heriánův láz (33), 17.vi.2008, 1 ♂, SW, J. Svatý Štěpán, Chladný vrch NM (37), 16.vi.2010, 1 ♂, MT, MC. Sidonie (39), 30.v.2007, 1 ♂, SW, J. Sidonie, Mlýn (40), 30.v.2007, 1 ♂, SW, J. Lopeník, Hrubý Mechnáč (46), 25.vi. 2006, 1 ♂, MT, O. Nová Lhota, Vápenky (67), 3.vi.2009, 1 ♂, MT, JCM.

Comments. Probably a central European species, uncommon (with so far only few localities known in the Czech Republic – Bohemia and Moravia – and Poland); collected in shaded spring areas or near brooks, sometimes together with *J. soleata* and *J. valachica*. Biology unknown.

Jungiella (Jungiella) jadarica Krek, 1979

Published record. JEŽEK (2009b): Petrůvka, Kladenka brook (26).

Comments. An extremely rare species, described from two males collected in southern Europe (Bosnia and Herzegovina). The recent material from the Bílé Karpaty PLA published by JEŽEK (2009b) and cited above (5 males) confirms the validity of the species which has not been registered elsewhere so far. Biology unknown.

Jungiella (Jungiella) laetabilis Krek, 1971

Published records. JEŽEK (2009b): Petrůvka, Kladenka brook (26); Radějov, Kútky NR – Mandát brook (60).

Comments. Only the male holotype from montane bogs in the vicinity of Sarajevo in Bosnia and Herzegovina has been available until the recent findings of specimens in the Czech Republic which confirmed the validity of this species (JEŽEK 2009b). Biology unknown. Probably a scarce species in the Czech Republic.

Jungiella (Jungiella) septentrionalis Krek, 1979

Published record. JEŽEK (2009b): Petrůvka, Kladenka brook (26).

Additional material examined. Valašské Klobouky, Bílé potoky NR (20), 3.vi.2007, 1 ♂, MT, O.

Comments. An extremely rare species, previously known only from the original description (based on two males from Bosnia and Herzegovina). One of the specimens recently collected in the Czech Republic (the České Švýcarsko National Park in Bohemia and the Bílé Karpaty PLA) may be suitable for designating a neotype (Krek collection of moth flies, deposited at the University of Sarajevo, was destroyed during the military conflicts in former Yugoslavia). Apparently a species of interest from the nature conservation viewpoint, scarce in the country. Its biology remains largely unknown; the adults were collected near brooks at higher altitudes.

***Jungiella (Jungiella) soleata* (Walker, 1856)**

Material examined. Nevšová, Uhliska hill (6), 22.vi.2005, 1 ♂, SW, J. Haluzice (7), 22.vi.2005, 1 ♂, SW, J. Brumov-Bylnice, Hložec (9), 21.vi.2005, 1 ♂, SW, J. Valašské Příkazy (13), 6.vi.2006, 1 ♂, SW, J. Študlov, Požár hill (14), 6.vi.2006, 1 ♂, SW, J. Valašské Klobouky, Javorůvky NR (15), 28.v.2007, 1 ♂, SW, J. Valašské Klobouky, Královec hill (16), 28.v.2007, 1 ♂, SW, J. Návojná, Hluboké údolí valley (18), 31.v.2007, 2 ♂♂, SW, J. Petrůvka, Kladenska brook (26), 3.vi.2008, 1 ♂, MT, JCM. Štítná nad Vláří-Popov, Havránkův potok brook, 21.vi.2005, 1 ♂, SW, J; Brumov-Bylnice, Bylničky – Heriánův láz (33), 17.vi.2008, 1 ♂, SW, J. Svatý Štěpán, Chladný vrch NM (37), 7.vi.2006 and 16.vi.2010, 2 ♂♂, SW, J and MT, MC. Sidonie (39), 30.v.2007, 1 ♂, SW, J. Sidonie, Mlýn (40), 30.v.2007, 1 ♂, SW, J. Nová Lhota, Vápenky (67), 12.v.2009, 1 ♂, MT, JCM. Strání, Záhumenice NM (74), 15.vi.2010, 1 ♂, MT, MC.

Comments. A common species distributed almost throughout Europe, including the British Isles, also known from northern Iran. It was collected from lowlands to mountains in shaded habitats with decaying organic matter.

***Jungiella (Jungiella) valachica* (Vaillant, 1963)**

Material examined. Nevšová, Uhliska hill (6), 22.vi.2005, 1 ♂, SW, J. Valašské Příkazy (13), 6.vi.2006, 1 ♂, SW, J. Návojná, Hluboké údolí valley (18), 31.v.2007, 2 ♂♂, SW, J. Návojná (22), 31.v.2007, 1 ♂, SW, J. Petrůvka, Kladenska brook (26), 3.vi.2008, 1 ♂, MT, JCM. Brumov-Bylnice, Bylničky – Heriánův láz (33), 17.vi.2008, 2 ♂♂, SW, J. Sidonie, Kopanice (36), 30.v.2007, 1 ♂, SW, J. Svatý Štěpán, Chladný vrch NM (37), 7.vi.2006 and 16.vi.2010, 2 ♂♂, SW, J and MT, MC. Sidonie (39), 30.v.2007, 1 ♂, SW, J. Lopeník, Hrubý Mechnáč (46), 3.vii.2006, 2 ♂♂, MT, O. Javorník, Jazevčí NNR (63), 25.vi.2009, 1 ♂, MT, JCM. Nová Lhota, Vápenky (67), 3.vi., 22.vi. and 15.vii.2009, 3 ♂♂, MT, JCM.

Comments. Quite sporadic, known from Poland, Czech Republic, Austria, Switzerland, and countries in the Balkan Peninsula. It inhabits similar habitats as *J. soleata*.

***Jungiella (Psychocha) acuminata* (Szabó, 1960)**

Material examined. Valašské Klobouky (17), 20.vi.2005, 1 ♂, SW, J. Štítná nad Vláří-Popov, Havránkův potok brook, 21.vi.2005, 1 ♂, SW, J. Brumov-Bylnice, Bylnička brook (31), 23.vi.2005, 1 ♂, SW, J. Brumov-Bylnice, Lazy NR (32), 22.vi.2005, 1 ♂, SW, J. Horní Němčí (43), 28.vi.2006, 1 ♂, SW, J. Horní Němčí, Luh (44), 28.vi.2006, 1 ♂, SW, J. Nová Lhota, Vápenky (67), 15.vii.2009, 1 ♂, MT, JCM.

Comments. A European species, so far known only from the Great Britain, France, Czech Republic, and Hungary. It occurs in habitats with decaying organic matter (ponds, shaded brooks, and wet meadows).

***Jungiella (Psychocha) hassiaca* Wagner, 1993**

Material examined. Javorník, Jazevčí NNR (64), 25.vi.2009, 2 ♂♂, MT, JCM. Nová Lhota, Vápenky (67), 22.vi.2009, 1 ♂, MT, JCM.

Comments. An extremely rare species known only from Germany (Hesse) and the Czech Republic (the Podyjí National Park, České Švýcarsko National Park and Bílé Karpaty PLA). Apparently a scarce and noteworthy species from the nature conservation viewpoint, which needs a more detailed monitoring in future.

***Jungiella (Psychocha) laminata* (Szabó, 1960) (CR)**

Published records. OMEJKOVÁ *et al.* (2008): Brumov-Bylnice, Bylničky (33); Horní Němčí (43).

Additional material examined. Nevšová, Lazy (5), 22.vi.2005, 1 ♂, SW, J. Haluzice (7), 22.vi.2005, 1 ♂, SW, J. Lipová (8), 22.vi.2005, 1 ♂, SW, J. Valašské Klobouky (17), 20.vi.2005, 1 ♂, SW, J. Bojkovice, Bažantnice pond (28), 27.vi.2006, 1 ♂, SW, J. Nevšovka brook (29), 2.vi.2005, 1 ♂, SW, J. Štítná nad Vláří-Popov, Havránkův potok brook, 21.vi.2005, 1 ♂, SW, J. Brumov-Bylnice, Lazy NR (32), 23.vi.2005, 1 ♂, SW, J. Nová Lhota, Vápenky (67), 15.vii.2009, 1 ♂, MT, JCM.

Comments. A very rare central European species, known only from the Czech Republic, Germany, Hungary, and Serbia. It occurs in habitats with sandy sediments, especially brook floodplains and ponds. Critically endangered in the Czech Republic.

***Jungiella (Psychocha) procera* Krek, 1971**

Material examined. Nevšová, Uhliska hill (6), 22.vi.2005, 1 ♂, SW, J. Haluzice (7), 22.vi.2005, 1 ♂, SW, J. Brumov-Bylnice, Hložec (9), 21.vi.2005, 1 ♂, SW, J. Brumov-Bylnice, Kulajka (10), 21.vi.2005, 1 ♂, SW, J. Študlov, Požár hill (14), 6.vi.2006, 1 ♂, SW, J. Valašské Klobouky, Javorůvky NR (15), 20.vi.2005 and 28.v.2007, 2 ♂♂, SW, J. Návojná, Hluboké údolí valley (18), 31.v.2007, 2 ♂♂, SW, J. Valašské Klobouky, Bílé potoky NR (20), 5.vi.2006, 1 ♂, SW, J.; same site but 17.vi.2007, 3 ♂♂, MT, O. Brumov-Bylnice, Hložec (21), 21.vi.2005, 1 ♂, SW, J. Návojná (22), 31.v.2007, 1 ♂, SW, J. Petřůvka, Kladenka brook (26), 3.vi.2008, 1 ♂, MT, JCM. Štítná nad Vláří-Popov, Havránkův potok brook, 21.vi.2005, 1 ♂, SW, J. Brumov-Bylnice, Bylnička brook (31), 23.vi.2005, 1 ♂, SW, J. Svatý Štěpán, Hluboče NM (34), 18.vi.2008, 2 ♂♂, SW, J. Sidonie, Kopanice (36), 30.v.2007, 1 ♂, SW, J. Sidonie (39), 30.v.2007, 1 ♂, SW, J. Sidonie, Mlýn (40), 30.v.2007, 1 ♂, SW, J. Sidonie, Vlárský průsmyk pass (41), 30.v.2007, 1 ♂, SW, J. Horní Němčí, Luh (44), 28.vi.2006, 1 ♂, SW, J. Kněždub, Čertoryje NNR – Járkovec brook (53), 29.v.2006, 1 ♂, MT, JCM. Radějov, Kútky NR – Mandát brook (60), 4.vi.2008, 1 ♂, MT, JCM. Javorník, Jazevčí NNR (63), 25.vi. and 15.vii.2009, 2 ♂♂, MT, JCM. Nová Lhota, Hryzlácké Mlýny (65), 22.vi.2009, 1 ♂, MT, JCM. Nová Lhota, Vápenky (67), 3.vi. and 22.vi.2009, 2 ♂♂, MT, JCM. Javorník, Machová NR – Rybnický potok brook (72), 26.vi.2006, 1 ♂, SW, J. Strání, Záhumenice NM (74), 15.vi.2010, 1 ♂, MT, MC.

Comments. A quite rare, hardly known species, abundant only locally; it has been collected so far only in Bosnia and Herzegovina, Serbia, and the Czech Republic in floodplains of small brooks, swampy meadows, forest spring areas and slope treeless tufa-forming fens.

***Lepiseodina rothschildi* (Eaton, 1912)**

Material examined. Valašské Klobouky, Bílé potoky NR (20), 23.viii.2006, 1 ♂, MT, O. Sidonie, Sidonie NR (35), 25.v.2010, 1 ♂, MT, MC. Kněždub, Čertoryje NNR – Radějovka brook (59), 25.v.2010, 1 ♂, MT, MC. Nová Lhota, Hryzlácké Mlýny (65), 12.v.2009, 1 ♂, MT, JCM.

Comments. A quite rare European species, known only from the British Isles, countries along the North Sea coast, the Czech Republic, and Italy. Being dendrolimnobioc and apparently of conservation interest (scarce in the country), it needs a more detailed monitoring in the Czech Republic.

***Lepiseodina tristis* (Meigen, 1830)**

(CR)

Material examined. Petrůvka, Kladenska brook (26), 3.vi.2008, 1 ♂, MT, JCM. Radějov, Kútky NR – Mandát brook (60), 4.vi.2008, 1 ♂, MT, JCM.

Comments. A rare dendrolimnobioc species, known from the British Isles, countries along the North Sea coast, central Europe, and Lithuania. Critically endangered in the Czech Republic.

***Logima albipennis* (Zetterstedt, 1850)**

Material examined. Petrůvka, U Petrůvky NM (3), 3.vi.2008, 1 ♀, MT, JCM. Študlov, Požár hill (14), 6.vi.2006, 1 ♀, SW, J. Petrůvka, Kladenska brook (26), 3.vi.2008, 1 ♀, MT, JCM. Sidonie, Sidonie NR (35), 25.v.2010, 1 ♀, MT, MC. Svatý Štěpán, Chladný vrch NM (37), 24.v.2010, 1 ♀, MT, MC. Sidonie, Vlárský průsmyk pass (41), 30.v.2007, 1 ♀, SW, J. Radějov, Žerotín NM (52), 5.viii.2008, 1 ♀, MT, JCM. Kněždub, Traviska (58), 21.ix.2005, 1 ♀, MT, JCM. Kněždub, Čertoryje NNR – Radějovka brook (59), 5.v. and 25.v.2010, 2 ♀♀, MT, MC. Radějov, Kútky NR – Mandát brook (60), 4.vi.2008, 1 ♀, MT, JCM. Radějov, Kútky NR (61), 26.vi.2008, 1 ♀, MT, JCM. Velká nad Veličkou, Zahrady pod Hájem NNR (62), 2.vi.2009, 1 ♀, MT, JCM. Javorník, Jazevěčí NNR (63), 25.vi. and 15.vii.2009, 2 ♀♀, MT, JCM. Javorník, Jazevěčí NNR (64), 25.vi.2009, 1 ♀, MT, JCM. Nová Lhota, Hryzlácké Mlýny (65), 12.v. and 22.vi.2009, 2 ♀♀, MT, JCM. Nová Lhota, Vápenky (67), 12.v., 3.vi., 22.vi. and 15.vii.2009, 4 ♀♀, MT, JCM. Javorník, Machová NR – Rybnický potok brook (70), 24.v.2010, 1 ♀, MT, MC. Javorník, Machová NR (73), 9.vii.2007, 1 ♀, MT, JCM. Strání, Záhumenice NM (74), 25.v. and 15.vi.2010, 2 ♀♀, MT, MC. Strání, Svinářský potok brook (76), 29.viii.2005, 1 ♀, MT, JCM.

Comments. A cosmopolitan species, eurybionic, very common from lowlands to mountains. The larvae are saprophagous. The adults are occasionally numerous in Malaise and yellow pan traps and are also attracted by blue light traps.

***Logima erminea* (Eaton, 1893)**

Material examined. Petrůvka, Kladenska brook (26), 3.vi.2008, 2 ♂♂, MT, JCM. Kněždub, Traviska (58), 21.ix.2005, 1 ♀, SW, J. Javorník, Jazevěčí NNR (63), 25.vi. and 15.vii.2009, 2 ♂♂, MT, JCM. Nová Lhota, Vápenky (67), 12.v., 3.vi. and 15.vii.2009, 3 ♂♂, MT, JCM. Javorník, Machová NR (73), 9.vii.2007, 1 ♀, MT, JCM. Strání, Záhumenice NM (74), 15.vi.2010, 1 ♂, MT, MC. Strání, Svinářský potok brook (76), 29.viii.2005, 1 ♂, MT, JCM.

Comments. A Palaearctic species associated with fungi; it is generally common and known from various altitudes; it also inhabits caves. Its biology is, however, little known.

***Logima satchelli* (Quate, 1955)**

Material examined. Petrůvka, U Petrůvky NM (3), 3.vi.2008, 1 ♂, MT, JCM. Valašské Klobouky, Bílé potoky NR (20), 25.vi. and 23.viii. 2006, 3 ♂♂, MT, O. Petrůvka, Kladenska brook (26), 3.vi.2008, 1 ♀, MT, JCM.

Sidonie, Sidonie NR (35), 25.v.2010, 1 ♀, MT, MC. Svatý Štěpán, Chladný vrch NM (37), 24.v. and 16.vi.2010, 2 ♀♀, MT, MC. Sidonie (39), 30.v.2007, 1 ♀, SW, J. Sidonie, Vlárský průsmyk pass (41), 30.v.2007, 1 ♀, SW, J. Horní Němčí, Luh (44), 28.vi.2006, 1 ♀, SW, J. Vyškovec, Drietomice brook (50), 22.vii.2007, 2 ♂♂, MT, O. Radějov, Žerotín NM (52), 5.viii.2008, 1 ♂, MT, JCM. Kněždub, Čertoryje NNR – Járkovec brook (53), 29.v.2006, 1 ♂, MT, JCM. Kněždub, Čertoryje NNR – Radějovka brook (59), 5.v. and 25.v.2010, 2 ♂♂, MT, MC. Radějov, Kútky NR – Mandát brook (60), 4.vi.2008, 1 ♀, MT, JCM. Radějov, Kútky NR (61), 26.vi.2008, 1 ♂, MT, JCM. Velká nad Veličkou, Zahrady pod Hájem NNR (62), 25.vi.2009, 1 ♀, MT, JCM. Javorník, Jazevčí NNR (63), 25.vi. and 15.vii.2009, 2 ♀♀, MT, JCM. Javorník, Jazevčí NNR (64), 25.vi.2009, 1 ♂, MT, JCM. Nová Lhota, Hryzlácké Mlýny (65), 12.v. and 22.vi.2009, 2 ♂♂, MT, JCM. Nová Lhota, Vápenky (67), 12.v., 3.vi., 22.vi. and 15.vii.2009, 4 ♀♀, MT, JCM. Javorník, Machová NR (69), 14.vi.2010, 1 ♂, MT, MC. Javorník, Machová NR – Rybnický potok brook (70), 24.v.2010, 1 ♀, MT, MC. Javorník, Machová NR (73), 9.vii.2007, 1 ♂, MT, JCM. Strání, Záhumenice NM (74), 25.v. and 15.vi.2010, 1 ♂ 1 ♀, MT, MC.

Comments. A common, eurybiontic species, collected at various altitudes throughout the Holarctic Region.

Logima zetterstedti Ježek, 1983

Material examined. Brumov-Bylnice, Hložec (9), 21.vi.2005, 1 ♀, SW, J. Valašské Příkazy (13), 6.vi.2006, 1 ♀, SW, J. Valašské Klobouky, Javorůvky NR (15), 28.v.2007, 1 ♀, SW, J. Valašské Klobouky, Bílé potoky NR (20), 5.vi.2006 and 16.viii.2007, 2 ♀♀, SW, J. Svatý Štěpán, Hluboče NM (34), 18.vi.2008, 1 ♀, SW, J. Kněždub, Čertoryje NNR (54), 31.vii.2006, 1 ♀, MT, JCM. Javorník, Jazevčí NNR (64), 25.vi.2009, 1 ♂ 1 ♀, MT, JCM. Javorník, Machová NR (73), 9.vii.2007, 1 ♀, MT, JCM.

Comments. A European and western Siberian species, generally very common and known from a wide range of altitudes. Its larvae are saprobiontic. Adults sometimes become closed in sheaths of the plant *Arum maculatum* which they pollinate.

Mormia revisenda (Eaton, 1893)

Published records. JEŽEK (2006a): Nová Lhota, Vápenky – Hubertova chata hut (68); Strání, Svinárský potok brook (76); Strání, Javorina NNR (78). OMEJKOVÁ *et al.* (2008): Javorník, Machová NR (69, 73).

Additional material examined. Valašské Klobouky, Bílé potoky NR (20), 12.viii.2007, 1 ♂, MT, O. Sidonie, Sidonie NR (35), 5.v. and 25.v.2010, 3 ♂♂, MT, MC. Svatý Štěpán, Chladný vrch NM (37), 24.v.2010, 1 ♂, MT, MC. Lopeník, Hrubý Mechnáč (46), 3.vii.2006, 1 ♂, MT, O. Nová Lhota, Vápenky (67), 12.v.2009, 1 ♂, MT, JCM.

Comments. A very rare species so far recorded from Belgium, France, Germany, Czech Republic, Austria, Bosnia, and Greece. It inhabits shaded swamps on slopes and spring areas with rills, mainly in beech forests. Scarce in the Czech Republic.

Oomormia andrenipes (Strobl, 1910)

(CR)

Published records. JEŽEK & OMEJKOVÁ (2007): Študlov, Požár hill (14); Valašské Klobouky, Bílé potoky NR (20). OMEJKOVÁ *et al.* (2008): Valašské Klobouky, Javorůvky NR (15).

Additional material examined. Valašské Klobouky, Královec hill (16), 28.v.2007, 1 ♂, SW, J. Valašské Klobouky, Bílé potoky NR (20), 25.vi.2006, 1 ♂, MT, O. Svatý Štěpán, Chladný vrch NM (37), 16.vi.2010, 1 ♂, MT, MC. Vyškovec, Drietomice brook (50), 22.x.2007, 1 ♂, MT, O. Javorník, Jazevčí NNR (63), 25.vi. and 15.vii.2009, 2 ♂♂, MT, JCM. Nová Lhota, Vápenky (67), 3.vi.2009, 1 ♂, MT, JCM.

Comments. A quite rare species known from the Great Britain, Czech Republic, Slovakia, Austria, Slovenia, and Bosnia. It inhabits slope forest spring areas and brooks in hills and mountains. Critically endangered in the Czech Republic.

***Panimerus albifacies* (Tonnoir, 1919)**

(EN)

Published record. JEŽEK (2009b): Nedašov, Lapač (25).

Additional material examined. Lopeník, Hrubý Mechnáč (46), 3.vii. and 23.viii.2006, 4 ♂♂, MT, O. Vyškovec, Chmelinec NR (49), 24.vi.2007, 1 ♂, MT, K.

Comments. A relatively widespread species in Europe which inhabits spring areas and brooks with moss polsters. Rare and considered endangered in the Czech Republic.

***Panimerus denticulatus* Krek, 1971**

Material examined. Lipová (4), 22.vi.2005, 1 ♂, SW, J. Nevšová, Lazy (5), 22.vi.2005, 1 ♂, SW, J. Nevšová, Uhliska hill (6), 22.vi.2005, 1 ♂, SW, J. Lipová (8), 22.vi.2005, 1 ♂, SW, J. Valašské Klobouky, Javorůvky NR (15), 20.vi.2005, 1 ♂, SW, J. Valašské Klobouky (17), 20.vi.2005, 1 ♂, SW, J. Brumov-Bylnice, Hložec (21), 21.vi.2005, 1 ♂, SW, J. Návojná (22), 31.v.2007, 1 ♂, SW, J. Petrůvka, Kladenska brook (26), 3.vi.2008, 1 ♂, MT, JCM. Bojkovice, Bažantnice pond (28), 27.vi.2006, 1 ♂, SW, J. Štítná nad Vláří-Popov, Havránkův potok brook, 21.vi.2005, 1 ♂, SW, J. Brumov-Bylnice, Bylničky – Heriánův láz (33), 23.vi.2005 and 17.vi.2008, 3 ♂♂, SW, J. Horní Němčí, Dubníček (42), 28.vi.2006, 1 ♂, SW, J. Lopeník, Hrubý Mechnáč (46), 25.vi., 3.vii. and 23.viii.2006, 7 ♂♂, MT, O. Starý Hrozenkov, Lozky (48), 29.vi.2006, 1 ♂, SW, J. Radějov, Kútky NR (61), 26.vi.2008, 1 ♂, MT, JCM. Nová Lhota, Vápenky (67), 3.vi. and 22.vi.2009, 2 ♂♂, MT, JCM. Javorník, Machová NR – Rybnický potok brook (72), 26.vi.2006, 1 ♂, SW, J.

Comments. A locally common species, known from several European countries: Austria, Bosnia and Herzegovina, Czech Republic, Great Britain, Greece, Ireland and Macedonia. It occurs in shaded spring areas, along brooks, around ponds, and in wet meadows and pastures from lowlands to mountains.

***Panimerus notabilis* (Eaton, 1893)**

Material examined. Petrůvka, U Petrůvky NM (3), 3.vi.2008, 1 ♂, MT, JCM. Horní Lideč, Lačnovské rybníky ponds (12), 15.viii.2007, 1 ♂, SW, J. Lopeník, Hrubý Mechnáč (46), 25.vi., 3.vii. and 19.vii. 2006, 4 ♂♂, MT, O. Žitková, Hutě NR (47), 25.vi.2006, 1 ♂, MT, O. Kněždub, Čertoryje NNR – Radějovka brook (59), 25.v.2010, 1 ♂, MT, MC. Radějov, Kútky NR – Mandát brook (60), 4.vi.2008, 1 ♂, MT, JCM. Nová Lhota, Vápenky (67), 22.vi.2009, 1 ♂, MT, JCM. Javorník, Machová NR – Rybnický potok brook (70), 24.v.2010, 1 ♂, MT, MC.

Comments. A common European species recorded from countries along the North Sea coast (including the British Isles), Scandinavia, central Europe, the Balkans and northern Iran. It lives in habitats with decaying organic matter, being (together with some water plants, e.g. *Typha*) one of the first colonizers of early succession stages, e.g. in surface mining areas and spoil dumps.

***Parabazarella subneglecta* (Tonnoir, 1922)**

Material examined. Nová Lhota, Vápenky (67), 12.v.2009, 1 ♂, MT, JCM. Valašské Klobouky, Bílé potoky NR (20), 23.v.2006, 2 ♂♂, MT, O.

Comments. Known from western and central Europe, Finland, Lithuania, the Balkans, and Turkey. An uncommon species which inhabits hygropetric zones with moss polsters, spring areas, and brooks.

***Parajungiella longicornis* (Tonnoir, 1919)**

Material examined. Nevšová, Lazy (5), 22.vi.2005, 1 ♂, SW, J. Nevšová, Uhliska hill (6), 22.vi.2005, 1 ♂, SW, J. Lačnov, Seninka brook (11), 15.viii.2007, 1 ♂, SW, J. Horní Lideč, Lačnovské rybníky ponds (12), 15.viii.2007, 1 ♂, SW, J. Petrůvka, Kladenka brook (26), 3.vi.2008, 1 ♂, MT, JCM. Bojkovice, Bažantnice pond (28), 27.vi.2006, 1 ♂, SW, J. Sidonie, Mlýn (40), 30.v.2007, 1 ♂, SW, J. Kněždub, Čertoryje NNR – Radějovka brook (59), 25.v.2010, 1 ♂, MT, MC.

Comments. Widely distributed in Europe and western Siberia. Generally a very common species which inhabits both unshaded and shaded banks of streams (mainly with moss polsters), ponds, and forest seepages.

***Parajungiella prikryli* Ježek, 1999**

(VU)

Material examined. Nevšová, Lazy (5), 22.vi.2005, 1 ♂, SW, J. Návojná, Hluboké údolí valley (18), 31.v.2007, 1 ♂, SW, J.

Comments. Apparently a rare central European species, so far collected only in the Czech Republic; it is distributed here from lowlands to hilly regions (Sokolov and Frýdlant regions and the Podyjí National Park). It inhabits meanders of brooks, shaded swamps, ponds, and water reservoirs.

***Parajungiella pseudolongicornis* (Wagner, 1975)**

(CR)

Published record. OMEJKOVÁ *et al.* (2008): Poteč, Ploščiny NR (19).

Additional material examined. Horní Lideč, Lačnovské rybníky ponds (12), 15.viii.2007, 1 ♂, SW, J. Valašské Příkazy (13), 6.vi.2006, 1 ♂, SW, J.

Comments. A rare species, recorded only from the Great Britain, Ireland, Austria, Czech Republic, Slovakia, Serbia, and Bosnia and Herzegovina. It occurs in habitats with decaying organic matter (ponds, brooks, meanders of rivers, rills, and swamps). Critically endangered in the Czech Republic.

***Parajungiella serbica* (Krek, 1985)**

(CR)

Published record. OMEJKOVÁ *et al.* (2008): Poteč, Ploščiny NR (19).

Additional material examined. Horní Lideč, Lačnovské rybníky ponds (12), 15.viii.2007, 1 ♂, SW, J. Valašské Příkazy (13), 6.vi.2006, 1 ♂, SW, J. Návojná, Hluboké údolí valley (18), 31.v.2007, 2 ♂♂, SW, J. Návojná (22), 31.v.2007, 1 ♂, SW, J. Sidonie, Mlýn (40), 30.v.2007, 1 ♂, SW, J.

Comments. Quite a rare species, occurring sporadically in the Czech Republic, Slovakia, Greece, and Serbia in inundated meadows, swampy pastures, small brooks and saline water reservoirs. Critically endangered in the Czech Republic.

Paramormia (Phyllotelmatoscopus) acuta (Krek, 1971)

Published records. JEŽEK & OMELKOVÁ (2007), OMELKOVÁ *et al.* (2008): Brumov-Bylnice, Bylničky (33); Javorník, Machová NR – Rybnický potok brook (72).

Additional material examined. Návojná (22), 31.v.2007, 1 ♂, SW, J. Brumov-Bylnice, Bylničky – Heriánův láz (33), 17.vi.2008, 3 ♂♂, SW, J. Svatý Štěpán, Hluboče NM (34), 18.vi.2008, 1 ♂, SW, J. Březová, Kalábová NM (45), 6.viii.2008, 1 ♂, SW, J. Lopeník, Hrubý Mechnáč (46), 19.vii.2006, 1 ♂, MT, O; same site but 7.viii.2008, 1 ♂, SW, J. Vyškovec, Drietomice brook (50), 22.vii.2007, 2 ♂♂, MT, O. Radějov, Kútky NR (61), 26.vi.2008, 1 ♂, MT, JCM. Javorník, Jazevčí NNR (63), 25.vi.2009, 1 ♂, MT, JCM.

Comments. A rare species, known from altogether six European countries (found scarcely also in the Czech Republic). It occurs in spring areas near brooks, swampy pastures, and meadows.

Paramormia (Paramormia) polyascoidea (Krek, 1971)

Material examined. Lipová (8), 22.vi.2005, 1 ♂, SW, J. Lačnov, Seninka brook (11), 15.viii.2007, 1 ♂, SW, J. Návojná, Hluboké údolí valley (18), 31.v.2007, 1 ♂, SW, J. Bojkovice, Bažantnice pond (28), 27.vi.2006, 1 ♂, SW, J. Brumov-Bylnice, Bylničky – Heriánův láz (33), 17.vi.2008, 1 ♂, SW, J. Horní Němčí, Dubníček (42), 28.vi.2006, 1 ♂, SW, J. Horní Němčí (43), 28.vi.2006, 1 ♂, SW, J. Lopeník, Hrubý Mechnáč (46), 3.vii.2006, 2 ♂♂, MT, O. Starý Hrozenkov, Lozky (48), 29.vi.2006, 1 ♂, SW, J. Kněždub, Čertoryje NNR – Járkovec brook (53), 29.v.2006, 1 ♂, MT, JCM. Kněždub, Čertoryje NNR – Radějovka brook (59), 25.v.2010, 1 ♂, MT, MC.

Comments. A European and western Siberian species known from Germany, Czech Republic, Poland, Austria, Bosnia and Herzegovina, Caucasus (Abkhazia), and Russia (Novosibirsk region). It was collected in swampy meadows and pastures, spring areas, along brooks, around ponds, and in alluvium of meandering streams from lowland to mountains.

Pericoma (Pachypericoma) blandula Eaton, 1893

Material examined. Lačnov, Seninka brook (11), 15.viii.2007, 1 ♂, SW, J. Valašské Příkazy (13), 6.vi.2006, 1 ♂, SW, J. Študlov, Požár hill (14), 6.vi.2006, 1 ♂, SW, J. Valašské Klobouky, Javorůvky NR (15), 28.v.2007, 1 ♂, SW, J. Návojná, Hluboké údolí valley (18), 31.v.2007, 1 ♂, SW, J. Poteč, Ploštiny NR (19), 6.vi.2006, 1 ♂, SW, J. Nedašov, Kaňoury NM (24), 14.viii.2007, 1 ♂, SW, J. Petrůvka, Kladenka brook (26), 3.vi.2008, 1 ♂, MT, JCM. Bojkovice, Bažantnice pond (28), 27.vi.2006, 1 ♂, SW, J. Nevšovka brook (29), 22.vi.2005, 1 ♂, SW, J. Štítná nad Vláří-Popov, Havránkův potok brook, 21.vi.2005, 1 ♂, SW, J. Brumov-Bylnice, Bylnička brook (31), 23.vi.2005, 2 ♂♂, SW, J. Sidonie, Sidonie NR (35), 5.v.2010, 1 ♂, MT, MC. Sidonie, Mlýn (40), 30.v.2007, 1 ♂, SW, J. Sidonie, Vlárský průsmyk pass (41), 30.v.2007, 1 ♂, SW, J. Horní Němčí, Dubníček (42), 28.vi.2006, 1 ♂, SW, J. Horní Němčí (43), 28.vi.2006, 1 ♂, SW, J. Horní Němčí, Luh (44), 28.vi.2006, 1 ♂, SW, J. Starý Hrozenkov, Lozky (48), 29.vi.2006, 1 ♂, SW, J. Sudoměřice nad Moravou, Sudoměřický potok brook (51), 27.vii.2005, 1 ♂, SW, C. Kněždub, Čertoryje NNR – Járkovec brook (53), 29.v.2006, 1 ♂, MT, JCM. Radějov, Lučina (56), 21.ix.2005, 1 ♂, SW, J. Radějov, Kútky NR – Mandát brook (60), 4.vi.2008, 1 ♂, MT, JCM. Nová Lhota, Vápenky (67), 12.v., 3.vi., 22.vi., and 15.vii.2009, 4 ♂♂, MT, JCM. Javorník, Machová NR – Rybnický potok brook (70), 24.v.2010, 1 ♂, MT, MC. Javorník, Machová NR – Rybnický potok brook (72), 2.viii.2007, 1 ♂, SW, J. Strání, Záhumenice NM (74), 25.v., 15.vi. and 12.viii.2010, 3 ♂♂, MT, MC.

Comments. Widespread in Europe (known from altogether 30 countries) and recorded also in Transcaucasia, Tunisia, and Morocco. A moss-dwelling species, common in both shaded and unshaded habitats at various altitudes.

***Pericoma (Pachypericoma) fallax* Eaton, 1893**

Material examined. Lipová (8), 22.vi.2005, 1 ♂, SW, J. Horní Lideč, Lačnovské rybníky ponds (12), 15.viii.2007, 1 ♂, SW, J. Bojkovice, Bažantnice pond (28), 27.vi.2006, 1 ♂, SW, J. Nevšovka brook (29), 22.vi.2005, 1 ♂, SW, J. Brumov-Bylnice, Bylničky – Heriánův láz (33), 17.vi.2008, 1 ♂, SW, J. Sidonie, Sidonie NR (35), 25.v.2010, 1 ♂, MT, MC. Sidonie, Mlýn (40), 30.v.2007, 1 ♂, SW, J. Sidonie, Vlárský průsmyk pass (41), 24.vii.2005, 1 ♂, SW, C. Horní Němčí (43), 28.vi.2006, 1 ♂, SW, J. Horní Němčí, Luh (44), 28.vi.2006, 1 ♂, SW, J. Sudoměřice nad Moravou, Sudoměřický potok brook (51), 27.vii.2005, 1 ♂, SW, C. Kněždub, Čertoryje NNR – Járkovec brook (53), 29.v.2006, 1 ♂, MT, JCM. Kněždub, Kejda pond (55), 21.ix.2005, 1 ♂, SW, J. Radějov, Lučina (56), 21.ix.2005, 1 ♂, SW, J. Radějov, Kútky NR – Mandát brook (60), 4.vi.2008, 1 ♂, MT, JCM. Javorník, Jazevčí NNR (63), 15.vii.2009, 1 ♂, MT, JCM. Suchov, Kazivec brook (66), 2.viii.2004, 1 ♂, SW, C. Strání, Záhumenice NM (74), 25.v. and 15.vi.2010, 2 ♂♂, MT, MC.

Comments. A European and western Siberian species recorded from more than 18 countries, known also from the Caucasus (Abkhazia). A moss-dwelling species, generally common and abundant in both shaded and unshaded habitats, e.g. ponds, swampy meadows, alluvium of brooks, and water reservoirs,

***Pericoma (Pachypericoma) formosa* Nielsen, 1964**

Material examined. Bojkovice, Bažantnice pond (28), 27.vi.2006, 1 ♂, SW, J. Nevšovka brook (29), 22.vi.2005, 1 ♂, SW, J. Sidonie, Vlárský průsmyk pass (41), 24.vii.2005 and 30.v.2007, 2 ♂♂, SW, C and J. Horní Němčí, Luh (44), 28.vi.2006, 1 ♂, SW, J. Radějov, Lučina (56), 21.ix.2005, 1 ♂, SW, J. Radějov, Kútky NR – Mandát brook (60), 4.vi.2008, 1 ♂, MT, JCM.

Comments. A European species so far recorded from France, Czech Republic, Slovakia, Denmark, Norway, and Finland. Recognized as valid only recently, overlooked in the past. Scarce in the Czech Republic; it occurs in similar habitats as the foregoing species.

***Pericoma (Pericoma) exquisita* Eaton, 1893 (EN)**

Published records. JEŽEK & OMEJKOVÁ (2007): Bojkovice, Bažantnice pond (28); Sidonie, Vlárský průsmyk pass (41); Horní Němčí (43); Horní Němčí, Luh (44); Sudoměřice nad Moravou, Sudoměřický potok brook (51); Kněždub, Čertoryje NNR – Járkovec brook (53); Kněždub, Kejda pond (55). OMEJKOVÁ *et al.* (2008): Horní Němčí (43, 44); Kněždub, Čertoryje NNR (53); Javorník, Machová NR (69, 73).

Additional material examined. Lipová (8), 22.vi.2005, 1 ♂, SW, J. Návojná, Hluboké údolí valley (18), 31.v.2007, 1 ♂, MT, JCM. Sidonie, Mlýn (40), 30.v.2007, 1 ♂, SW, J. Kněždub, Čertoryje NNR – Radějovka brook (59), 5.v.2010, 1 ♂, MT, MC. Javorník, Jazevčí NNR (63), 15.vii.2009, 1 ♂, MT, JCM. Javorník, Machová NR – Rybnický potok brook (70), 24.v.2010, 1 ♂, MT, MC. Strání, Záhumenice NM (74), 25.v.2010, 1 ♂, MT, MC.

Comments. Widespread in Europe, North Africa and Transcaucasia. A moss-dwelling species inhabiting forest springs, water wells and brooks. Endangered in the Czech Republic.

***Pericoma (Pericoma) ljubiniensis* Krek, 1969**

Published records. JEŽEK & OMELKOVÁ (2007), OMELKOVÁ *et al.* (2008): Brumov-Bylnice, Bylničky (33).

Additional material examined. Svatý Štěpán, Chladný vrch NM (37), 16.vi.2010, 1 ♂, MT, MC.

Comments. A scarce species, so far known only from Bosnia and the Czech Republic (Bílé Karpaty PLA).

***Pericoma (Pericoma) pallida* Vaillant, 1978**

Published records. JEŽEK & OMELKOVÁ (2007): Lopeník, Hrubý Mechnáč (46). OMELKOVÁ *et al.* (2008): Valašské Klobouky, Javorůvky NR (15); Brumov-Bylnice, Bylničky (33); Lopeník, Hrubý Mechnáč (46); Žitková, Hutě NR (47).

Additional material examined. Petrůvka, Kladenka brook (26), 3.vi.2008, 1 ♂, MT, JCM. Svatý Štěpán, Chladný vrch NM (37), 24.v.2010, 1 ♂, MT, MC. Březová, Kalábová NM (45), 6.viii.2008, 1 ♂, SW, J. Lopeník, Hrubý Mechnáč (46), 25.vi., 23.viii. and 22.ix.2006, 6 ♂♂, MT, O; 7.viii. and 28.viii.2008, 2 ♂♂, SW, J. Strání, Záhumenice NM (74), 25.v.2010, 1 ♂, MT, MC.

Comments. A rare species, so far known only from Spain (original description; VAILLANT 1978) and recently collected also in the Czech Republic (Český kras PLA in Bohemia and Bílé Karpaty PLA) and Slovakia.

***Pericoma (Pericoma) pannonica* Szabó, 1960**

Published records. JEŽEK & OMELKOVÁ (2007), OMELKOVÁ *et al.* (2008): Horní Němčí, Luh (44).

Additional material examined. Sidonie (39), 30.v.2007, 1 ♂, SW, J. Strání, Záhumenice NM (74), 12.viii.2010, 1 ♂, MT, MC.

Comments. Known from altogether seven European countries including the Czech Republic (WAGNER 2007, JEŽEK & OMELKOVÁ 2007). It inhabits forest brooks and shaded swamps. Scarce in the Czech Republic.

***Pericoma (Pericoma) pingarestica* Vaillant, 1978**

Published records. JEŽEK (2006a): Brumov-Bylnice, Hložec (9); Valašské Klobouky, Javorůvky NR (15). OMELKOVÁ *et al.* (2008): Valašské Klobouky, Javorůvky NR (15); Valašské Klobouky, Bílé potoky NR (20); Brumov-Bylnice, Bylničky (33); Javorník, Machová NR (69, 73).

Additional material examined. Návojná, Hluboké údolí valley (18), 31.v.2007, 2 ♂♂, SW, J. Valašské Klobouky, Bílé potoky NR (20), 25.vi., 23.viii.2006, and 17.vi.2007, 8 ♂♂, MT, O. Návojná (22), 31.v.2007, 1 ♂, SW, J. Záhorovice, Valy hill (27), 27.vi.2006, 1 ♂, SW, J. Brumov-Bylnice, Bylničky – Heriánův láz (33), 23.vi.2005 and 17.vi.2008, 3 ♂♂, SW, J. Svatý Štěpán, Hluboče NM (34), 18.vi.2008, 1 ♂, SW, J. Sidonie (39), 30.v.2007, 1 ♂, SW, J. Březová, Kalábová NM (45), 29.iv. and 12.ix.2007, 3 ♂♂, MT, O; 6.viii.2008, 1 ♂, SW, J. Lopeník, Hrubý Mechnáč (46), 17.vi.2007, 2 ♂♂, MT, O. Výškovec, Drietomice brook (50), 24.vi., 5.viii. and 30.ix.2007, 3 ♂♂, MT, K. Javorník, Filipovské údolí valley (71), 1.viii.2007, 1 ♂, SW, J.

Comments. Recorded from Bulgaria, Romania, Serbia, Czech Republic, and Slovakia. Scarce in the Czech Republic; it occurs in slope spring areas, wet meadows and pastures, forest brooks, and water wells.

***Pericoma (Pericoma) tonnoiri* Vaillant, 1978**

Published record. JEŽEK (2006a): Strání, Svinárský potok brook (78).

Additional material examined. Valašské Klobouky, Bílé potoky NR (20), 23.v.2006, 3.vi. and 22.vii.2007, 8 ♂♂, MT, O. Lopeník, Hrubý Mechnáč (46), 3.vii. and 19.vii.2006, 6 ♂♂, MT, O. Vyškovec, Drietomice brook (50), 5.viii.2007, 1 ♂, MT, K. Strání, Záhumenice NM (74), 15.vi.2010, 1 ♂, MT, MC.

Comments. Known only from Austria, Czech Republic, Greece, Slovakia, and former Yugoslavia. In the Czech Republic scarce, collected in similar habitats as the foregoing species.

***Pericoma (Pericoma) trifasciata* (Meigen, 1804)**

Material examined. Poteč, Ploštiny NR (19), 6.vi.2006, 1 ♂, SW, J. Valašské Klobouky, Bílé potoky NR (20), 12.viii.2007, 2 ♂♂, MT, O; 16.viii.2007, 1 ♂, SW, J. Záhorovice, Valy hill (27), 27.vi.2006, 1 ♂, SW, J. Brumov-Bylnice, Bylničky – Heriánův láz (33), 23.vi.2005, 1 ♂, SW, J. Horní Němčí, Luh (44), 28.vi.2006, 1 ♂, SW, J. Lopeník, Hrubý Mechnáč (46), 23.viii.2006, 1 ♂, MT, O. Vyškovec, Drietomice brook (50), 5.viii.2007, 1 ♂, MT, K. Sudoměřice nad Moravou, Sudoměřický potok brook (51), 27.vii.2005, 1 ♂, SW, C. Kneždub, Čertoryje NNR – Járkovec brook (53), 29.v.2006, 1 ♂, MT, JCM. Březová, Janáčkův pramen spring (75), 20.ix.2005, 1 ♂, SW, J.

Comments. A widespread (but locally occurring) European species, associated with mosses in running water and tufa-forming habitats.

***Pericoma (Pericoma) vestita* Vaillant et Withers, 1993**

Published records. JEŽEK & OMEJKOVÁ (2007): Brumov-Bylnice, Bylnička brook (31); Brumov-Bylnice, Lazy NR (32). OMEJKOVÁ *et al.* (2008): Valašské Klobouky, Javorůvky NR (15); Brumov-Bylnice, Bylničky (33).

Additional material examined. Brumov-Bylnice, Bylničky – Heriánův láz (33), 17.vi.2008, 3 ♂♂, SW, J. Svatý Štěpán, Hluboče NM (34), 18.vi.2008, 1 ♂, SW, J. Svatý Štěpán, Chladný vrch NM (37), 16.vi.2010, 1 ♂, MT, MC. Lopeník, Hrubý Mechnáč (46), 7.viii.2008, 1 ♂, SW, J.

Comments. So far known only from France (VAILLANT & WITHERS 1993), Germany (JEŽEK & SCHACHT 2006), and the Czech Republic. A scarce species of slope spring areas, swampy meadows and pastures, and wells at forest margins.

***Peripsychoda auriculata* (Curtis, 1839)**

Material examined. Lipová (4), 22.vi.2005, 2 ♂♂, SW, J. Haluzice (7), 22.vi.2005, 1 ♂, SW, J. Brumov-Bylnice, Hložec (9), 21.vi.2005, 1 ♂, SW, J. Brumov-Bylnice, Kulajka (10), 21.vi.2005, 1 ♂, SW, J. Valašské Klobouky (17), 20.vi.2005, 1 ♂, SW, J. Návojná, Hluboké údolí valley (18), 31.v.2007, 1 ♂, SW, J. Návojná (22), 31.v.2007, 1 ♂, SW, J. Petrůvka, Kladenka brook (26), 3.vi.2008, 1 ♂, MT, JCM. Nevšovka brook (29), 22.vi.2005, 1 ♂, SW, J. Štítná nad Vláří-Popov, Havránkův potok brook, 21.vi.2005, 1 ♂, SW, J. Brumov-Bylnice, Bylnička brook (31), 23.vi.2005, 1 ♂, SW, J. Brumov-Bylnice, Lazy NR (32), 22.vi.2005, 1 ♂, SW, J. Svatý Štěpán, Hluboče NM (34), 18.vi.2008, 1 ♂, SW, J. Horní Němčí (43), 28.vi.2006, 1 ♂, SW, J. Horní Němčí, Luh (44), 28.vi.2006, 1 ♂, SW, J. Lopeník, Hrubý Mechnáč (46), 23.viii.2006, 2 ♂♂, MT, O. Starý Hrozenkov, Lozky (48), 29.vi.2006, 1 ♂, SW, J. Sudoměřice nad Moravou, Sudoměřický potok brook (51), 27.vii.2005, 1 ♂, SW, C. Javorník, Filipovské údolí valley (71), 1.viii.2007, 1 ♂, SW, J. Javorník, Machová NR – Rybnický potok brook (72), 26.vi.2006 and 2.viii.2007, 2 ♂♂, SW, J.

Comments. A well-known and conspicuous European and Transcaucasian species; it occurs from lowlands to hilly regions, being very common in habitats with decaying organic matter, e.g. ponds, alluvium of brooks, forest water reservoirs, wet pastures, and eutrophic spring areas.

***Peripsychoda fusca* (Macquart, 1826) (CR)**

Published records. OMELKOVÁ *et al.* (2008): Valašské Klobouky, Bílé potoky NR (20); Brumov-Bylnice, Bylničky (33); Javorník, Machová NR (69, 73).

Additional material examined. Haluzice (7), 22.vi.2005, 1 ♂, SW, J. Brumov-Bylnice, Kulajka (10), 21.vi.2005, 1 ♂, SW, J. Valašské Klobouky (17), 20.vi.2005, 1 ♂, SW, J. Návojná, Hluboké údolí valley (18), 31.v.2007, 2 ♂♂, SW, J. Valašské Klobouky, Bílé potoky NR (20), 25.vi.2006, 1 ♂, MT, O. Návojná (22), 31.v.2007, 1 ♂, SW, J. Petrůvka, Kladenska brook (26), 3.vi.2008, 1 ♂, MT, JCM. Brumov-Bylnice, Bylničky – Heriánův láz (33), 17.vi.2008, 3 ♂♂, SW, J. Brumov-Bylnice, Hluboče NM (34), 18.vi.2008, 2 ♂♂, SW, J. Svatý Štěpán, Pláňava (38), 7.vi.2006, 1 ♂, SW, J. Sidonie (39), 30.v.2007, 1 ♂, SW, J. Radějov, Kútky NR – Mandát brook (60), 4.vi.2008, 1 ♂, MT, JCM. Radějov, Kútky NR (61), 26.vi.2008, 1 ♂, MT, JCM. Nová Lhota, Hryzlácké Mlýny (65), 22.vi.2009, 1 ♂, MT, JCM. Nová Lhota, Vápenky (67), 22.vi.2009, 1 ♂, MT, JCM. Strání, Záhumenice NM (74), 15.vi.2010, 1 ♂, MT, MC.

Comments. A European species, relatively widely distributed from the British Isles and countries along the North Sea coast to Poland and Finland in the north, and the Apennines and the Balkans in the south. However, it is only locally common and considered critically endangered in the Czech Republic. It occurs in habitats with moss polsters and leaf packs which are generally similar as in *P. auriculata*.

***Philosepedon austriacum* Vaillant, 1974**

Material examined. Valašské Klobouky, Bílé potoky NR (20), 23.ix.2006, 1 ♂, MT, O. Štítná nad Vláří-Popov, Havránkův potok brook, 21.vi.2005, 1 ♂, SW, J. Radějov, Lučina (56), 21.ix.2005, 1 ♂, SW, J. Nová Lhota, Vápenky – Hubertova chata hut (68), v.2005, 1 ♂, MT, JCM.

Comments. Distributed in Europe (Austria, Czech Republic, Germany, Greece, Russia, Slovakia, and Slovenia) and western Siberia. It occurs commonly in both shaded and unshaded habitats, e.g. slope spring areas and brooks from lowlands to mountains.

***Philosepedon balkanicum* Krek, 1971 (CR)**

Material examined. Valašské Klobouky, Bílé potoky NR (20), 23.viii.2006 and 22.vii.2007, 2 ♂♂, MT, O. Starý Hrozenkov, Lozky (48), 5.viii.2007, 1 ♂, MT, K. Nová Lhota, Vápenky – Hubertova chata hut (68), v.2005, 1 ♂, MT, JCM.

Comments. Recorded in Bosnia and Herzegovina, Czech Republic, Germany, Slovakia, Slovenia, and Caucasus (Abkhazia) in mountain slope spring areas, avalanche grooves, and near forest wells and brooks. Critically endangered in the Czech Republic.

***Philosepedon humerale* (Meigen, 1818)**

Material examined. Horní Němčí, Luh (44), 28.vi.2006, 1 ♂, SW, J.

Comments. Generally a very common and widely distributed European species (present also in North Africa) which occurs from lowlands to mountains. It is associated with mollusc shells.

***Philosepedon perdecorum* Omelková et Ježek, 2012**

Published record. OMELKOVÁ & JEŽEK (2012b): Kněždub, Kejda pond (55) [one male paratype].

Comments. A recently described species from the Czech Republic (the environs of Dobruška in north-eastern Bohemia and the Bílé Karpaty PLA) and the Netherlands. Biology unknown.

***Philosepedon pragense* Ježek, 1997**

(VU)

Published records. JEŽEK & OMELKOVÁ (2007): Radějov, Lučina reservoir (56). OMELKOVÁ *et al.* (2008): Kněždub, Čertoryje NNR (54).

Comments. A rare species, known only from the original description (based on material from Prague) and the Bílé Karpaty PLA so far. Its biology remains unknown. Considered a vulnerable species in the Czech Republic.

***Pneumia canescens* (Meigen, 1804)**

Material examined. Valašské Klobouky, Bílé potoky NR (20), 16.viii.2007, 1 ♂, SW, J. Lopeník, Hrubý Mechnáč (46), 12.viii.2007, 1 ♂, MT, O; 28.viii.2008, 1 ♂, SW, J. Vyškovec, Chmelinec NR (49), 29.iv.2007, 2 ♂♂, MT, O. Vyškovec, Drietomice brook (50), 22.vii.2010, 23 ♂♂, SW, O.

Comments. A common species, widely distributed in Europe, western Siberia and Afghanistan. It occurs from lowlands to mountains, usually associated with mosses in running water habitats; its larvae are rheobiontic.

***Pneumia compta* (Eaton, 1893)**

Published records. JEŽEK & OMELKOVÁ (2007): Radějov, Lučina reservoir (56); Kněždub, Traviska (58). OMELKOVÁ *et al.* (2008): Žitková, Hutě NR (47); Kněždub, Čertoryje NNR (53, 59).

Additional material examined. Kněždub, Čertoryje NNR – Radějovka brook (59), 22.x.2010, 1 ♂, MT, MC.

Comments. A rare species known from Austria, Belgium, Czech Republic, Denmark, Germany, Great Britain, Ireland, Italy, and the Netherlands. It lives in slope spring areas, forest brooks, and water reservoirs and occurs only scarcely in the Czech Republic.

***Pneumia crispī* (Freeman, 1953)**

(EN)

Published records. OMELKOVÁ *et al.* (2008): Valašské Klobouky, Javorůvky NR (15); Valašské Klobouky, Bílé potoky NR (20); Žitková, Hutě NR (47).

Additional material examined. Valašské Klobouky, Bílé potoky NR (20), 21.x.2007, 3 ♂♂, MT, O. Březová, Kalábová NM (45), 27.viii.2008, 1 ♂, SW, J. Lopeník, Hrubý Mechnáč (46), 22.ix.2006, 1 ♂, MT, O; 28.viii.2008, 1 ♂, SW, J. Strání, Svinárský potok brook (76), 29.viii.2005, 1 ♂, MT, JCM.

Comments. So far recorded from Bosnia and Herzegovina, Czech Republic, France, Germany, Great Britain, Greece, Hungary, Macedonia, Romania, and Slovakia. It occurs in habitats with decaying organic matter which is needed for the development of larvae, particularly leaf packs and moss polsters in spring areas and streams. Considered endangered in the Czech Republic.

***Pneumia cubitospinosa* (Jung, 1954)**

(EN)

Published records. JEŽEK (2006a): Nová Lhota, Vápenky – Hubertova chata hut (68); Strání, Javorina NNR – source of Velička brook (78).

Additional material examined. Svatý Štěpán, Chladný vrch NM (37), 24.v.2010, 1 ♂, MT, MC.

Comments. A European species known from Bosnia and Herzegovina, Czech Republic, Denmark, France, Germany, Italy, Poland, Slovakia, and Switzerland. It occurs in habitats with moss polsters and leaf packs in spring areas and near streams in hills and mountains. Endangered in the Czech Republic.

***Pneumia gracilis gracilis* (Eaton, 1893)**

Material examined. Študlov, Požár hill (14), 6.vi.2006, 1 ♂, SW, J. Valašské Klobouky, Bílé Potoky NR (20), 16.viii.2007, 1 ♂, SW, J. Petrůvka, Kladenka brook (26), 3.vi.2008, 1 ♂, MT, JCM. Lopeník, Hrubý Mechnáč (46), 28.viii.2008, 1 ♂, SW, J. Žitková, Hutě NR (47), 31.vii.2007, 1 ♂, SW, J. Vyškovec, Chmelínek NR (49), 5.viii.2007, 1 ♂, MT, K. Kněždub, Čertoryje NNR – Járkovec brook (53), 29.v.2006, 1 ♂, MT, JCM. Kněždub, Čertoryje NNR – Radějovka brook (59), 25.v.2010, 1 ♂, MT, MC. Nová Lhota, Hryzlácké Mlýny (65), 12.v.2009, 1 ♂, MT, JCM. Suchov, Kazivec brook (66), 2.viii.2004, 1 ♂, SW, C. Nová Lhota, Vápenky (67), 12.v. and 3.vi.2009, 2 ♂♂, MT, JCM.

Comments. The nominotypical subspecies was ascertained in eleven European countries and the Caucasus, the other subspecies, *P. gracilis kandavanica* (Ježek, 1990) was described from Iran. It lives in forest slope spring areas, brooks, and marshes.

***Pneumia kabelaki* Omelková et Ježek, 2012**

Published record. OMELKOVÁ & JEŽEK (2012a): Sidonie, Sidonie NR (35) [holotype and 12 male paratypes].

Comments. Probably an extremely rare species, so far known only from the type locality in the Bílé Karpaty PLA where only the male holotype and several paratypes were collected. Its biology remains unknown.

***Pneumia mutua* (Eaton, 1893)**

Material examined. Študlov, Požár hill (14), 6.vi.2006, 1 ♂, SW, J. Poteč, Ploštiny NR (19), 6.vi.2006, 1 ♂, SW, J. Nová Lhota, Vápenky – Hubertova chata hut (68), v.2005, 1 ♂, MT, JCM. Strání, Javorina NNR (78), 4.v.2005, 1 ♂, MT, JCM.

Comments. A European species, distributed largely in western and central Europe and Scandinavia. In the Czech Republic, it is common especially in the Hercynicum and

particularly abundant in habitats with moss polsters and leaf packs, e.g. spring areas and in the neighbourhood of forest streams.

***Pneumia nubila* (Meigen, 1818)**

Material examined. Luhačovice, Obětová hora hill (2), 1.x.2007, 1 ♂, SW, J. Lipová (8), 22.vi.2005, 1 ♂, SW, J. Horní Němčí, Dubníček (42), 28.vi.2006, 1 ♂, SW, J. Horní Němčí (43), 28.vi.2006, 1 ♂, SW, J. Horní Němčí, Luh (44), 28.vi.2006, 1 ♂, SW, J. Vyškovec, Chmelínek NR (49), 24.vi. and 5.viii.2007, 2 ♂♂, MT, K. Vyškovec, Drietomice brook (50), 22.vii.2010, 12 ♂♂, SW, O. Kněždub, Kejda pond (55), 21.ix.2005, 2 ♂♂, SW, J. Radějov, Lučina (56), 21.ix.2005, 1 ♂, SW, J. Kněždub, Traviska (58), 21.ix.2005, 1 ♂, SW, J. Nová Lhota, Vápenky (67), 12.v.2009, 1 ♂, MT, JCM. Nová Lhota, Vápenky – Hubertova chata hut (68), v.2005, 1 ♂, MT, JCM. Javorník, Machová NR – Rybnický potok brook (70), 24.v.2010, 1 ♂, MT, MC. Javorník, Machová NR – Rybnický potok brook (72), 26.vi.2006 and 3.x.2007, 2 ♂♂, SW, J. Strání, Záhumenice NM (74), 12.viii.2010, 1 ♂, MT, MC.

Comments. A very common species, recorded from throughout Europe and the Canary Islands. It is abundant especially in shaded habitats with decaying organic matter, e.g. ponds, brooks, spring areas, water reservoirs, and swamps.

***Pneumia palustris* (Meigen, 1804)**

Published record. JEŽEK (2006a): Nová Lhota, Vápenky – Hubertova chata hut (68).

Additional material examined. Petrůvka, U Petrůvky NM (3), 3.vi.2008, 1 ♂, MT, JCM. Študlov, Požár hill (14), 6.vi.2006, 1 ♂, SW, J. Valašské Klobouky, Javorůvky NR (15), 28.v.2007, 1 ♂, SW, J. Poteč, Ploštiny NR (19), 6.vi.2006, 1 ♂, SW, J. Petrůvka, Kladenka brook (26), 3.vi.2008, 1 ♂, MT, JCM. Sidonie, Sidonie NR (35), 25.v.2010, 1 ♂, MT, MC. Svätý Štěpán, Chladný vrch NM (37), 24.v. and 16.vi.2010, 2 ♂♂, MT, MC. Březová, Kalábová NM (45), 29.iv.2007, 2 ♂♂, MT, O. Radějov, Kútky NR – Mandát brook (60), 4.vi.2008, 1 ♂, MT, JCM. Javorník, Machová NR – Rybnický potok brook (70), 24.v.2010, 1 ♂, MT, MC. Javorník, Machová NR – Rybnický potok brook (72), 2.viii.2007, 1 ♂, SW, J.

Comments. Widespread in Europe, the Canary Islands and Turkey in various shaded habitats with decaying organic matter and leaf packs which are needed for the development of the immature stages (as in *P. nubila*).

***Pneumia pilularia* (Tonnoir, 1940)**

Material examined. Luhačovice, Obětová hora hill (2), 1.x.2007, 1 ♂, SW, J. Valašské Klobouky, Bílé potoky NR (20), 23.ix.2006, 1 ♂, MT, O. Sidonie, Sidonie NR (35), 5.v.2010, 1 ♂, MT, MC. Žitková, Hutě NR (47), 2.x.2007, 1 ♂, SW, J. Vyškovec, Drietomice brook (50), 30.ix.2007, 2 ♂♂, MT, O. Kněždub, Čertoryje NNR – Radějovka brook (59), 5.v.2010, 1 ♂, MT, MC. Nová Lhota, Vápenky – Hubertova chata hut (68), v.2005, 1 ♂, MT, JCM. Javorník, Machová NR – Rybnický potok brook (72), 3.x.2007, 1 ♂, SW, J. Strání, Záhumenice NM (74), 25.v.2010, 1 ♂, MT, MC. Strání, Javorina NNR (78), 4.v.2005, 1 ♂, MT, JCM.

Comments. Distributed almost throughout Europe including Spain, the British Isles and Scandinavia, collected also in Algeria, Morocco, and Tajikistan, but relatively sporadic. The larvae occur in mosses in running water habitats, e.g. spring areas and brooks from lowlands to mountains.

***Pneumia stammeri* (Jung, 1956)**

(EN)

Material examined. Študlov, Požár hill (14), 6.vi.2006, 1 ♂, SW, J. Sidonie, Sidonie NR (35), 5.v. and 25.v.2010, 2 ♂♂, MT, MC. Nová Lhota, Vápenky (67), 12.v.2009, 1 ♂, MT, JCM. Nová Lhota, Vápenky – Hubertova chata hut (68), v.2005, 1 ♂, MT, JCM. Strání, Javorina NNR (78), 4.v.2005, 1 ♂, MT, JCM.

Comments. Quite a rare European species distributed from the British Isles, countries along the North Sea coast and Scandinavia eastwards to Slovakia and the Balkans. It lives in tufa-forming habitats with moss polsters and is treated as an endangered species in the Czech Republic.

***Pneumia tjentistensis* (Krek, 1969)**

Published records. JEZEK & OMEJKOVÁ (2007), OMEJKOVÁ *et al.* (2008): Brumov-Bylnice, Bylničky (33).
Additional material examined. Brumov-Bylnice, Bylničky – Heriánův láz (33), 17.vi.2008, 1 ♂, SW, J. Svatý Štěpán, Hluboče NM (34), 18.vi.2008, 3 ♂♂, SW, J.

Comments. So far known only from Bosnia and Herzegovina (KREK 1969) and recent records in two localities in the Bílé Karpaty PLA (both being spring areas). Apparently a scarce species in the Czech Republic. Its biology remains unknown.

***Pneumia trivialis* (Eaton, 1893)**

Material examined. Luhačovice, Obětová hora hill (2), 1.x.2007, 1 ♂, SW, J. Nevšová, Lazy (5), 22.vi.2005, 1 ♂, SW, J. Lipová (8), 22.vi.2005, 1 ♂, SW, J. Brumov-Bylnice, Hložec (9), 21.vi.2005, 1 ♂, SW, J. Horní Lideč, Lačnovské rybníky ponds (12), 15.viii.2007, 1 ♂, SW, J. Lačnov, Seninka brook (11), 15.viii.2007, 1 ♂, SW, J. Návojná, Hluboké údolí valley (18), 31.v.2007, 1 ♂, SW, J. Nedašov, Lapač (25), 14.viii.2007, 1 ♂, SW, J. Petruvka, Kladenka brook (26), 3.vi.2008, 1 ♂, MT, JCM. Záhorovice, Valy hill (27), 27.vi.2006, 1 ♂, SW, J. Bojkovice, Bažantnice pond (28), 27.vi.2006, 1 ♂, SW, J. Štítná nad Vláří-Popov, Havránkův potok brook, 21.vi.2005, 1 ♂, SW, J. Brumov-Bylnice, Bylnička brook (31), 23.vi.2005, 1 ♂, SW, J. Brumov-Bylnice, Lazy NR (32), 23.vi.2005, 1 ♂, SW, J. Brumov-Bylnice, Bylničky – Heriánův láz (33), 17.vi.2008, 1 ♂, SW, J. Svatý Štěpán, Hluboče NM (34), 18.vi.2008, 2 ♂♂, SW, J. Horní Němčí, Dubníček (42), 28.vi.2006, 1 ♂, SW, J. Horní Němčí (43), 28.vi.2006, 1 ♂, SW, J. Horní Němčí, Luh (44), 28.vi.2006, 1 ♂, SW, J. Březová, Kalábová NM (45), 12.ix.2007, 1 ♂, MT, O; 27.viii.2008, 1 ♂, SW, J. Lopeník, Hrubý Mechnáč (46), 28.viii.2008, 1 ♂, SW, J. Žitková, Hutě NR (47), 25.vi.2006, 1 ♂, MT, O; 31.vii.2007, 1 ♂, SW, J. Starý Hrozenkov, Lozky (48), 29.vi.2006, 1 ♂, SW, J. Vyškovec, Chmelinec NR (49), 22.vii.2007, 1 ♂, MT, O; 14.ix.2007, 1 ♂, MT, K. Vyškovec, Drietomice brook (50), 22.vii. and 12.viii.2007, 4 ♂♂, MT, O. Radějov, Lučina (56), 21.ix.2005, 1 ♂, SW, J. Kněždub (57), 21.ix.2005, 1 ♂, SW, J. Nová Lhota, Vápenky (67), 15.vii.2009, 1 ♂, MT, JCM. Strání, Záhumenice NM (74), 25.v.2010, 1 ♂, MT, MC.

Comments. A very common European species widely distributed from the Iberian Peninsula and British Isles to Poland, and from Scandinavia to the Balkans. In the Czech Republic so far documented largely from the Hercynicum. The larvae develop in both shaded and unshaded habitats with decaying organic matter (ponds, brooks, spring areas, swamps, and water reservoirs).

***Promormia eatoni* (Tonnoir, 1940)**

(EN)

Published records. OMEJKOVÁ *et al.* (2008): Valašské Klobouky, Javorůvky NR (15); Valašské Klobouky, Bílé potoky NR (20); Kněždub, Čertoryje NNR (54).

Material examined. Návojná, Hluboké údolí valley (18), 31.v.2007, 1 ♂, SW, J. Svatý Štěpán, Hluboče NM (34), 18.vi.2008, 1 ♂, SW, J. Svatý Štěpán, Chladný vrch NM (37), 16.vi.2010, 1 ♂, MT, MC. Sidonie, Vlárský průsmyk pass (41), 30.v.2007, 1 ♂, SW, J. Lopeník, Hrubý Mechnáč (46), 3.vii.2006, 1 ♂, MT, O. Výskovec. Chmelinec NR (49), 21.x.2007, 1 ♂, MT, O. Radějov, Kútky NR – Mandát brook (60), 4.vi.2008, 1 ♂, MT, JCM. Javorník, Jazevčí NNR (63), 25.vi.2009, 1 ♂, MT, JCM. Nová Lhota, Vápenky (67), 3.vi.2009, 1 ♂, MT, JCM. Strání, Záhumenice NM (74), 15.vi.2010, 1 ♂, MT, MC.

Comments. Known from Europe (Belgium, Germany, Denmark, Czech Republic, Slovakia, Austria, Bosnia and Herzegovina, and Greece) but it is generally quite rare. The adults were collected in slope spring areas, in wet pastures and in the neighbourhood of forest brooks; sometimes together with *P. silesiensis*. Considered endangered in the Czech Republic.

***Promormia silesiensis* Ježek, 1983**

(CR)

Published records. OMEJKOVÁ *et al.* (2008): Valašské Klobouky, Bílé potoky NR (20); Brumov-Bylnice, Bylničky (33).

Material examined. Valašské Klobouky, Bílé potoky NR (20), 25.vi.2006 and 3.vi.2007, 3 ♂♂, MT, O. Petrůvka, Kladenka brook (26), 3.vi.2008, 2 ♂♂, MT, JCM. Brumov-Bylnice, Bylničky – Heriánův láz (33), 17.vi.2008, 1 ♂, SW, J. Svatý Štěpán, Hluboče NM (34), 18.vi.2008, 1 ♂, SW, J. Sidonie, Vlárský průsmyk pass (41), 30.v.2007, 1 ♂, SW, J. Výskovec, Drietomice brook (50), 11.vi.2010, 2 ♂♂, MT, O. Radějov, Kútky NR – Mandát brook (60), 4.vi.2008, 1 ♂, MT, JCM. Javorník, Jazevčí NNR (63), 25.vi.2009, 1 ♂, MT, JCM. Nová Lhota, Vápenky (67), 3.vi. and 22.vi.2009, 2 ♂♂, MT, JCM. Strání, Záhumenice NM (74), 15.vi.2010, 1 ♂, MT, MC.

Comments. So far collected only in the Czech Republic, Greece, Slovenia, and Slovakia. A critically endangered species in the Czech Republic; sometimes collected together with *P. eatoni* in the same habitats.

***Psycha grisescens* (Tonnoir, 1922)**

Material examined. Petrůvka, U Petrůvky NM (3), 3.vi.2008, 1 ♀, MT, JCM. Valašské Klobouky, Bílé potoky NR (20), 22.vii.2007, 2 ♂♂, MT, O. Petrůvka, Kladenka brook (26), 3.vi.2008, 1 ♀, MT, JCM. Štítná nad Vláří-Popov, Havránkův potok brook, 21.vi.2005, 1 ♀, SW, J. Sidonie, Sidonie NR (35), 5.v.2010, 1 ♂, MT, MC. Svatý Štěpán, Chladný vrch NM (37), 24.v. and 16.vi.2010, 1 ♂ 1 ♀, MT, MC. Březová, Kalábová NM (45), 6.viii.2008, 1 ♀, SW, J. Lopeník, Hrubý Mechnáč (46), 22.ix.2006, 1 ♂, MT, O. Žitková, Hutě NR (47), 11.vi.2010, 3 ♂♂, SW, O. Kněždub, Čertoryje NNR – Járkovec brook (53), 29.v.2006, 1 ♀, MT, JCM. Kněždub, Čertoryje NNR – Radějovka brook (59), 5.v. and 25.v.2010, 2 ♂♂, MT, MC. Radějov, Kútky NR – Mandát brook (60), 4.vi.2008, 1 ♂, MT, JCM. Radějov, Kútky NR (61), 26.vi.2008, 1 ♀, MT, JCM. Javorník, Jazevčí NNR (64), 25.vi.2009, 2 ♀♀, MT, JCM. Nová Lhota, Hryzlácké Mlýny (65), 12.v.2009, 1 ♀, MT, JCM. Nová Lhota, Vápenky (67), 12.v., 3.vi., 22.vi., and 15.vii.2009, 2 ♂♂ 2 ♀♀, MT, JCM. Nová Lhota, Vápenky – Hubertova chata hut (68), v.2005, 1 ♂, MT, JCM. Javorník, Machová NR (69), 14.vi.2010, 1 ♂, MT, MC. Javorník, Machová NR – Rybnický potok brook (70), 24.v.2010, 1 ♀, MT, MC. Javorník, Machová NR (73), 9.vii.2007, 1 ♂, MT, JCM. Strání, Záhumenice NM (74), 5.v., 15.vi. and 12.viii.2010, 1 ♂ 2 ♀♀, MT, MC. Strání, Svinárský potok brook (76), 29.viii.2005, 1 ♀, MT, JCM. Strání, Javorina NNR – peak (77), 13.v.2009, 1 ♂, MT, JCM. Strání, Javorina NNR (78), 4.v.2005, 1 ♀, MT, JCM.

Comments. A European species, distributed from the British Isles and Scandinavia eastwards to Lithuania and central Anatolia, present also in North Africa. The larvae are saprobiontic; adults are sometimes found in sheaths of *Arum maculatum* which they pollinate, together with *Psychoda phalaenoides*.

Psychoda crassipennis Tonnoir, 1940

Published records. JEŽEK (2009b): Petrůvka, U Petrůvky NM (3); Petrůvka, Kladenka brook (26); Horní Němčí, Luh (44); Nová Lhota, Vápenky (67).

Comments. A European species distributed from the British Isles over the Atlantic coast to Scandinavia, scarcely found also in the Czech Republic. It lives in the littoral zone of polluted water reservoirs and swampy areas and in sewage water. Some females were recorded in sheaths of *Arum cylindraceum* as pollinators (in Horní Němčí, Luh – canyon of the Okluky brook).

Psychoda phalaenoides (Linné, 1758)

Material examined. Petrůvka, U Petrůvky NM (3), 3.vi.2008, 1 ♀, MT, JCM. Nevšová, Lazy (5), 22.vi.2005, 1 ♀, SW, J. Valašské Klobouky, Bílé potoky NR (20), 25.vi. and 23.viii.2006, 2 ♂♂, MT, O; 16.viii.2007, 1 ♀, SW, J. Petrůvka, Kladenka brook (26), 3.vi.2008, 1 ♂, MT, JCM. Bojkovice, Bažantnice pond (28), 27.vi.2006, 1 ♀, SW, J. Brumov-Bylnice, Bylnička brook (31), 23.vi.2005, 2 ♀♀, SW, J. Brumov-Bylnice, Bylničky – Heriánův láz (33), 17.vi.2008, 1 ♀, SW, J. Brumov-Bylnice, Hluboče NM (34), 18.vi.2008, 1 ♀, SW, J. Sidonie, Sidonie NR (35), 5.v. and 25.v.2010, 2 ♂♂, MT, MC. Svatý Štěpán, Chladný vrch NM (37), 24.v. and 16.vi.2010, 1 ♂ 1 ♀, MT, MC. Horní Němčí, Dubníček (42), 28.vi.2006, 1 ♀, SW, J. Horní Němčí (43), 28.vi.2006, 1 ♀, SW, J. Březová, Kalábová NM (45), 6.viii.2008, 1 ♀, SW, J. Lopeník, Hrubý Mechnáč (46), 22.vii.2007, 1 ♂, MT, O; 7. and 28.viii.2008, 1 ♂ 1 ♀, SW, J. Vyškovec, Drietomice brook (50), 22.vii.2007, 1 ♂, MT, O. Radějov, Žerotín NM (52), 5.viii.2008, 1 ♀, MT, JCM. Kněždub, Čertoryje NNR – Járkovec brook (53), 29.v.2006, 1 ♀, MT, JCM. Kněždub, Čertoryje NNR – Radějovka brook (59), 5.v. and 25.v.2010, 1 ♂ 1 ♀, MT, MC. Radějov, Kútky NR – Mandát brook (60), 4.vi.2008, 1 ♂, MT, JCM. Radějov, Kútky NR (61), 26.vi.2008, 1 ♀, MT, JCM. Velká nad Veličkou, Zahrady pod Hájem NNR (62), 25.vi.2009 and 5.v.2010, 2 ♂♂ 1 ♀, MT, JCM and MC. Javorník, Jazevčí NNR (63), 25.vi. and 15.vii.2009, 2 ♀♀, MT, JCM. Javorník, Jazevčí NNR (64), 25.vi.2009, 1 ♂, MT, JCM. Nová Lhota, Hryzlácké Mlýny (65), 12.v. and 22.vi.2009, 1 ♂ 1 ♀, MT, JCM. Nová Lhota, Vápenky (67), 12.v., 3.vi., 22.vi., and 15.vii.2009, 3 ♂♂ 1 ♀, MT, JCM. Nová Lhota, Vápenky – Hubertova chata hut (68), v.2005, 1 ♂, MT, JCM. Javorník, Machová NR (69), 14.vi.2010, 1 ♂, MT, MC. Javorník, Machová NR – Rybnický potok brook (70), 24.v.2010, 1 ♂, MT, MC. Javorník, Machová NR – Rybnický potok brook (72), 3.x.2007, 1 ♀, SW, J. Javorník, Machová NR (73), 9.vii.2007, 1 ♂, MT, JCM. Strání, Záhumenice NM (74), 5.v., 25.v., 15.vi., and 12.viii.2010, 4 ♂♂, MT, MC. Strání, Svinárský potok brook (76), 29.viii.2005, 1 ♀, MT, JCM. Strání, Javorina NNR (78), 4.v.2005, 1 ♂, MT, JCM.

Comments. A Holarctic polyvoltine species (with several generations per year), very common: known from lowlands to mountains. Adults are sometimes closed in sheaths of *Arum maculatum* together with *Psycha grisescens* and some other pollinator species. The larvae are saprobiontic.

Psychoda uniformata Haseman, 1907

Material examined. Petrůvka, U Petrůvky NM (3), 3.vi.2008, 1 ♀, MT, JCM. Strání, Záhumenice NM (74), 25.v. and 15.vi.2010, 2 ♀♀, MT, MC.

Comments. A Holarctic species, recorded from Austria, Czech Republic, Italy, Slovenia, Greece, Turkey, Iran, Israel, Mongolia, and the USA. The larvae are saprobiontic, the adults inhabit animal sheds, stables and dog kennels.

***Psychodocha cinerea* (Banks, 1894)**

Material examined. Petrůvka, U Petrůvky NM (3), 3.vi.2008, 1 ♀, MT, JCM. Valašské Klobouky, Bílé potoky NR (20), 23.viii.2006, and 21.x.2007, 2 ♂♂ 1 ♀, MT, O; 16.viii.2007, 1 ♂, SW, J. Petrůvka, Kladenka brook (26), 3.vi.2008, 1 ♂, MT, JCM. Sidonie, Sidonie NR (35), 5. and 25.v.2010, 1 ♂ 1 ♀, MT, MC. Svatý Štěpán, Chladný vrch NM (37), 16.vi.2010, 1 ♀, MT, MC. Sidonie, Mlýn (40), 30.v.2007, 1 ♂, SW, J. Radějov, Žerotín NM (52), 5.viii.2008, 1 ♀, MT, JCM. Kněždub, Čertoryje NNR – Járkovec brook (53), 29.v.2006, 1 ♀, MT, JCM. Kněždub, Čertoryje NNR (54), 31.vii.2006, 1 ♀, MT, JCM. Kněždub, Čertoryje NNR – Radějovka brook (59), 5. and 25.v.2010, 2 ♀♀, MT, MC. Radějov, Kútky NR – Mandát brook (60), 4.vi.2008, 1 ♀, MT, JCM. Radějov, Kútky NR (61), 26.vi.2008, 1 ♀, MT, JCM. Velká nad Veličkou, Zahrady pod Hájem NNR (62), 2.vi. and 25.vi.2009, 5.v.2010, 3 ♀♀, MT, JCM. Javorník, Jazevčí NNR (63), 25.vi.2009, 1 ♀, MT, JCM. Nová Lhota, Hryzlácké Mlýny (65), 12.v. and 22.vi.2009, 1 ♂ 1 ♀, MT, JCM. Nová Lhota, Vápenky (67), 12.v., 3.vi., 22.vi. and 15.vii.2009, 3 ♂♂ 1 ♀, MT, JCM. Nová Lhota, Vápenky – Hubertova chata hut (68), v.2005, 1 ♀, MT, JCM. Javorník, Machová NR (69), 14.vi.2010, 1 ♀, MT, MC. Javorník, Machová NR – Rybnický potok brook (70), 24.v.2010, 1 ♀, MT, MC. Javorník, Machová NR (73), 9.vii.2007, 1 ♂, MT, JCM. Strání, Záhumenice NM (74), 5.v., 15.vi. and 12.viii.2010, 3 ♀♀, MT, MC. Strání, Svinárský potok brook (76), 29.viii.2005, 1 ♀, MT, JCM.

Comments. A cosmopolitan species, very common from lowlands to mountains. The larvae are associated with fungi and saprobiontic, the adults are often found in unclean toilets.

***Psychodocha gemina* (Eaton, 1904)**

Material examined. Luhačovice, Obětová hora hill (2), 1.x.2007, 1 ♀, SW, J. Petrůvka, U Petrůvky NM (3), 3.vi.2008, 1 ♀, MT, JCM. Lipová (8), 22.vi.2005, 1 ♂, SW, J. Valašské Klobouky, Javorůvky NR (15), 20.vi.2005 and 28.v.2007, 2 ♀♀, SW, J. Valašské Klobouky, Bílé potoky NR (20), 25.vi., 19.vii., 23.viii.2006 and 21.x.2007, 16 ♂♂ 1 ♀, MT, O; 5.vi.2006 and 16.viii.2007, 3 ♀♀, SW, J. Petrůvka, Kladenka brook (26), 3.vi.2008, 1 ♀, MT, JCM. Sidonie, Sidonie NR (35), 5. and 25.v.2010, 1 ♂ 1 ♀, MT, MC. Svatý Štěpán, Chladný vrch NM (37), 24.v. and 16.vi.2010, 1 ♂ 1 ♀, MT, MC. Sidonie, Mlýn (40), 30.v.2007, 1 ♀, SW, J. Sidonie, Vlárský průsmyk pass (41), 30.v.2007, 1 ♀, SW, J. Horní Němčí, Luh (44), 28.vi.2006, 1 ♂, SW, J. Březová, Kalábová NM (45), 6.viii.2008, 1 ♀, SW, J. Lopeník, Hrubý Mechnáč (46), 25.vi., 22.ix.2006 and 17.vi.2007, 3 ♂♂, MT, O. Žitková, Hutě NR (47), 23.viii.2006, 1 ♂, MT, O. Vyškovec, Chmelinec NR (49), 17.v.2007, 1 ♂, MT, O. Vyškovec, Drietomice brook (50), 22.vii., 12.viii. and 22.x.2007, 10 ♂♂ 1 ♀, MT, O. Radějov, Žerotín NM (52), 5.viii.2008, 1 ♀, MT, JCM. Kněždub, Čertoryje NNR – Járkovec brook (53), 29.v.2006, 1 ♀, MT, JCM. Kněždub, Čertoryje NNR (54), 31.vii.2006, 1 ♀, MT, JCM. Kněždub, Čertoryje NNR – Radějovka brook (59), 5.v. and 25.v.2010, 1 ♂ 1 ♀, MT, MC. Radějov, Kútky NR – Mandát brook (60), 4.vi.2008, 1 ♀, MT, JCM. Radějov, Kútky NR (61), 26.vi.2008, 1 ♂, MT, JCM. Velká nad Veličkou, Zahrady pod Hájem NNR (62), 2.vi., 25.vi.2009 and 5.v.2010, 2 ♂♂ 2 ♀♀, MT, JCM. Javorník, Jazevčí NNR (63), 25.vi. and 15.vii.2009, 2 ♀♀, MT, JCM. Javorník, Jazevčí NNR (64), 25.vi.2009, 1 ♀, MT, JCM. Nová Lhota, Hryzlácké Mlýny (65), 12.v. and 22.vi.2009, 2 ♂♂, MT, JCM. Nová Lhota, Vápenky (67), 12.v., 3.vi., 22.vi. and 15.vii.2009, 1 ♂ 3 ♀♀, MT, JCM. Nová Lhota, Vápenky – Hubertova chata hut (68), v.2005, 1 ♀, MT, JCM. Javorník, Machová NR (69), 14.vi.2010, 1 ♀, MT, MC. Javorník, Machová NR – Rybnický potok brook (70), 24.v.2010, 1 ♀, MT, MC. Javorník, Machová NR – Rybnický potok brook (72), 3.x.2007, 1 ♀, SW, J. Javorník, Machová NR (73), 9.vii.2007, 1 ♀, MT, JCM. Strání, Záhumenice NM (74), 5.v., 25.v., 15.vi. and 12.viii.2010, 4 ♀♀, MT, MC. Strání, Svinárský potok brook (76), 29.viii.2005, 1 ♂, MT, JCM. Strání, Javorina NNR – peak (77), 3.vi.2009, 1 ♀, MT, JCM. Strání, Javorina NNR (78), 4.v.2005, 1 ♀, MT, JCM.

Comments. A European species known from many countries; it commonly occurs from lowlands to mountains. The larvae are saprobiontic and often develop in nests of water birds.

***Psychodocha itoco* (Tokunaga et Komyo, 1955)**

Material examined. Strání, Záhumenice NM (74), 15.vi.2010, 1 ♂, MT, MC.

Comments. Known only from Japan, Czech Republic, and Finland. Its biology is unknown. Further field work is needed to assess its conservation status in the Czech Republic.

***Psychodula minuta* (Banks, 1894)**

Material examined. Petrůvka, U Petrůvky NM (3), 3.vi.2008, 1 ♂, MT, JCM. Valašské Klobouky, Bílé potoky NR (20), 23.viii.2006 and 12.viii.2007, 4 ♂♂, MT, O. Petrůvka, Kladenska brook (26), 3.vi.2008, 1 ♀, MT, JCM. Sidonie, Sidonie NR (35), 5.v. and 25.v.2010, 1 ♂ 1 ♀, MT, MC. Svatý Štěpán, Chladný vrch NM(37), 24.v. and 16.vi.2010, 1 ♂ 1 ♀, MT, MC. Vyškovec, Drietomice brook (50), 22.vii.2010, 21 ♂♂, SW, O. Radějov, Žerotín NM (52), 5.viii.2008, 1 ♂, MT, JCM. Kněždub, Čertoryje NNR – Járkovec brook (53), 29.v.2006, 1 ♀, MT, JCM. Kněždub, Čertoryje NNR (54), 31.vii.2006, 1 ♀, MT, JCM. Kněždub, Čertoryje NNR – Radějovka brook (59), 5.v. and 25.v.2010, 2 ♂♂, MT, MC. Radějov, Kútky NR – Mandát brook (60), 4.vi.2008, 1 ♀, MT, JCM. Radějov, Kútky NR (61), 26.vi.2008, 1 ♂, MT, JCM. Velká nad Veličkou, Zahrady pod Hájem NNR (62), 25.vi.2009, 2 ♂♂, MT, JCM. Javorník, Jazevčí NNR (63), 25.vi. and 15.vii.2009, 1 ♂ 1 ♀, MT, JCM. Javorník, Jazevčí NNR (64), 25.vi.2009, 1 ♂, MT, JCM. Nová Lhota, Hryzlácké Mlýny (65), 12.v. and 22.vi.2009, 1 ♂ 1 ♀, MT, JCM. Nová Lhota, Vápenky (67), 12.v., 3.vi., 22.vi. and 15.vii.2009, 1 ♂ 3 ♀♀, MT, JCM. Nová Lhota, Vápenky – Hubertova chata hut (68), v.2005, 1 ♂, MT, JCM. Javorník, Machová NR (69), 14.vi.2010, 1 ♀, MT, MC. Javorník, Machová NR – Rybnický potok brook (70), 24.v.2010, 1 ♀, MT, MC. Javorník, Machová NR (73), 9.vii.2007, 1 ♀, MT, JCM. Strání, Záhumenice NM (74), 5.v., 25.v., 15.vi. and 12.viii.2010, 2 ♂♂ 2 ♀♀, MT, MC. Strání, Svinárský potok brook (76), 29.viii.2005, 1 ♀, MT, JCM. Strání, Javorina NNR (78), 4.v.2005, 1 ♀, MT, JCM.

Comments. A generally common Holarctic species, recorded from many countries. It occurs from lowlands to mountains. The larvae are saprobiontic and may be found on guano in caves as well.

***Psychomora mycophila* (Vaillant, 1988)**

Material examined. Sidonie, Sidonie NR (35), 25.v.2010, 1 ♂, MT, MC. Svatý Štěpán, Chladný vrch NM (37), 16.vi.2010, 1 ♂, MT, MC. Kněždub, Čertoryje NNR – Járkovec brook (53), 29.v.2006, 1 ♂, MT, JCM. Velká nad Veličkou, Zahrady pod Hájem NNR (62), 2.vi.2009, 1 ♂, MT, JCM. Javorník, Jazevčí NNR (64), 25.vi.2009, 2 ♂♂, MT, JCM. Javorník, Machová NR (69), 14.vi.2010, 1 ♂, MT, MC. Javorník, Machová NR (73), 9.vii.2007, 1 ♂, MT, JCM. Strání, Záhumenice NM (74), 25.v. and 15.vi.2010, 2 ♂♂, MT, MC.

Comments. A rare species, so far known only from France, Czech Republic, Slovakia, Slovenia, and Switzerland. It occurs from lowlands to mountains. Its larvae are associated with fungi.

***Psychomora trinodulosa* (Tonnoir, 1922)**

Material examined. Petrůvka, U Petrůvky NM (3), 3.vi.2008, 1 ♀, MT, JCM. Petrůvka, Kladenska brook (26), 3.vi.2008, 1 ♂, MT, JCM. Sidonie, Sidonie NR (35), 5. and 25.v.2010, 2 ♂♂, MT, MC. Svatý Štěpán, Chladný vrch NM (37), 24.v. and 16.vi.2010, 2 ♀♀, MT, MC. Lopeník, Hrubý Mechnáč (46), 23.viii.2006, 1 ♂, MT, O. Vyškovec, Drietomice brook (50), 22.vii.2010, 17 ♂♂, SW, O. Radějov, Žerotín NM (52), 5.viii.2008, 1 ♀, MT, JCM. Kněždub, Čertoryje NNR – Járkovec brook (53), 29.v.2006, 1 ♀, MT, JCM. Kněždub, Čertoryje NNR – Radějovka brook (59), 5.v. and 25.v.2010, 2 ♂♂, MT, MC. Radějov, Kútky NR – Mandát brook (60), 4.vi.2008,

1 ♀, MT, JC. Radějov, Kútky NR (61), 26.vi.2008, 1 ♂, MT, JCM. Velká nad Veličkou, Zahrady pod Hájem NNR (62), 25.vi.2009, 1 ♂ 1 ♀, MT, JCM. Javorník, Jazevčí NNR (63, 64), 25.vi.2009, 2 ♀♀, MT, JCM. Nová Lhota, Hryzlácké Mlýny (65), 12.v. and 22.vi.2009, 2 ♂♂, MT, JCM. Nová Lhota, Vápenky (67), 12.v., 22.vi. and 15.vii.2009, 1 ♂ 2 ♀♀, MT, JCM. Nová Lhota, Vápenky – Hubertova chata hut (68), v.2005, 1 ♂, MT, JC. Javorník, Machová NR (69), 14.vi.2010, 1 ♂, MT, MC. Javorník, Machová NR – Rybnický potok brook (70), 24.v.2010, 1 ♂, MT, MC. Javorník, Machová NR (73), 9.vii.2007, 1 ♂, MT, JCM. Strání, Záhumenice NM (74), 5.v., 25.v., 15.vi. and 12.viii.2010, 4 ♂♂, MT, MC. Strání, Svinárský potok brook (76), 29.viii.2005, 1 ♀, MT, JCM.

Comments. A Holarctic species, very common, known from various altitudes. It is a vector of larval stages of *Rhabditis* nematodes and Gamasidae mites.

***Psychomormia vaillantii* (Wagner, 1977) (CR)**

Material examined. Valašské Klobouky, Bílé potoky NR (20), 23.viii.2006, 2 ♂♂, MT, O.

Comments. So far known only from Germany (original description) and western Bohemia (open-cast coal mines and spoil dumps in the environs of Sokolov – JEŽEK 1996, 1999a). In the Bílé Karpaty PLA, it was found in a tufa-forming spring fen. A critically endangered species in the Czech Republic, recorded here for the first time for Moravia.

***Sciria advena* (Eaton, 1893) (CR)**

Material examined. Nová Lhota, Hryzlácké Mlýny (65), 12.v. and 22.vi.2009, 2 ♂♂, MT, JCM.

Comments. A rare species, known from France, Germany, Great Britain, Ireland, and Czech Republic (considered here critically endangered). The larvae are associated with dendrothelmae, largely in virgin floodplain forests. The adults are collected in swampy inundation areas and in the neighbourhood of brooks.

***Sycorax silacea* Curtis, 1839**

Material examined. Návojná, Hluboké údolí valley (18), 31.v.2007, 1 ♂, SW, J. Svatý Štěpán, Pláňava (38), 7.vi.2006, 1 ♂, SW, J.

Comments. Distributed in western (including the British Isles) and central Europe, Scandinavia, the Apennines and the Balkan Peninsula, locally common. It was collected in spring areas, in mosses in running water habitats, sources, forest rills, and in the neighbourhood of streams.

***Taramormia caspersi* (Wagner, 1977)**

Published records. JEŽEK (2009b): Javorník, Jazevčí NNR (63, 64); Nová Lhota, Hryzlácké Mlýny (65).

Additional material examined. Strání, Záhumenice NM (74), 15.vi.2010, 1 ♂, MT, MC.

Comments. Previously known only from the holotype collected in Germany (Bonn am Rhein), recently published also from the Bílé Karpaty PLA by JEŽEK (2009b). It was found in brooks at forest margins and in swampy meadows and pastures.

***Taramormia pulcherrima* (Wagner, 1979) (CR)**

Published records. JEŽEK (2009b): Petřůvka, Kladenska brook (26); Brumov-Bylnice, Bylničky (33); Svatý Štěpán, Hluboče NM (34); Sidonie, Mlýn (40).

Additional material examined. Javorník, Jazevčí NNR (63), 25.vi.2009, 1 ♂, MT, JCM. Strání, Záhumenice NM (74), 15.vi.2010, 1 ♂, MT, MC.

Comments. A rare species, originally described on the basis of three specimens from Germany (Hessen) and Austria (Lunz am See). Known also from the Czech Republic from the environs of Prague (JEŽEK 1997) and recently also from the Bílé Karpaty PLA. It lives in meadow spring areas, water seepages in beech forests, and brooks. A critically endangered species in the Czech Republic.

***Taramormia tatrica* Ježek, 1984**

Published records. JEŽEK & OMELKOVÁ (2007), OMELKOVÁ *et al.* (2008): Kněždub, Čertoryje NNR – Járkovec brook (53).

Additional material examined. Svatý Štěpán, Hluboče NM (34), 18.vi.2008, 1 ♂, SW, J. Javorník, Jazevčí NNR (63), 25.vi. and 15.vii.2009, 2 ♂♂, MT, JCM. Javorník, Jazevčí NNR (64), 25.vi.2009, 1 ♂, MT, JCM. Nová Lhota, Vápenky (67), 22.vi.2009, 1 ♂, MT, JCM.

Comments. So far only two males from Slovakia (Tatra Mts.; JEŽEK 1984) and one specimen from the Bílé Karpaty PLA (JEŽEK & OMELKOVÁ 2007, OMELKOVÁ *et al.* 2008) have been recorded. The species seems to be scarce in the Czech Republic and inhabits hygropetric habitats, meadow spring areas, and brooks.

***Telmatoscopus britteni* Tonnoir, 1940 (EN)**

Published records. JEŽEK & OMELKOVÁ (2007): Nevšová, Uhliska hill (6); Brumov-Bylnice, Hložec (9); Brumov-Bylnice, Bylnička brook (31); Javorník, Machová NR (70). OMELKOVÁ *et al.* (2008): Valašské Klobouky, Javorůvky NR (15); Brumov-Bylnice, Bylničky (31, 33), Javorník, Machová NR (70).

Additional material examined. Návojná, Hluboké údolí valley (18), 31.v.2007, 2 ♂♂, SW, J. Návojná (22), 31.v.2007, 1 ♂, SW, J. Brumov-Bylnice, Bylničky – Heriánův láz (33), 17.vi.2008, 1 ♂, SW, J. Svatý Štěpán, Chladný vrch NM (37), 16.vi.2010, 1 ♂, MT, MC. Sidonie (39), 30.v.2007, 1 ♂, SW, J. Javorník, Jazevčí NNR (63), 25.vi.2009, 1 ♂, MT, JCM.

Comments. Quite a rare species known from the Czech Republic, France, Germany, Great Britain, Hungary, Italy, Serbia, Montenegro, Slovenia, and Switzerland. It is usually found in hygropetric habitats and in mosses in running water, in spring areas and alluvium of brooks. Endangered in the Czech Republic.

***Telmatoscopus carpathicus* Ježek, 1988 (VU)**

Material examined. Nová Lhota – Vápenky (67), 3.vi.2009, 1 ♂, MT, JCM.

Comments. An extremely rare species, so far known only from Slovakia (Vysoké Tatry Mts.) and the Czech Republic (Jeseníky Mts.). It inhabits slope spring areas of mountain forest glades and alluvium of streams. Considered vulnerable in the Czech Republic.

***Telmatoscopus carthusianus* (Vaillant, 1972)**

Material examined. Valašské Klobouky, Bílé potoky NR (20), 5.vi.2006, 1 ♂, SW, J. Sidonie, Mlýn (40), 30.v.2007, 1 ♂, SW, J. Sidonie, Vlárský průsmyk pass (41), 30.v.2007, 1 ♂, SW, J. Kněždub, Čertoryje NNR – Radějovka brook (59), 25.v.2010, 1 ♂, MT, MC. Javorník, Jazevčí NNR (63), 25.vi.2009, 2 ♂♂, MT, JCM. Strání, Záhumenice NM (74), 15.vi.2010, 1 ♂, MT, MC.

Comments. Known from Czech Republic, France, Germany, Poland, Slovakia, and Slovenia. It occurs in forest spring areas, swampy meadows, streams, and brooks from lowlands to mountains.

***Telmatoscopus gressicus* (Vaillant, 1972)**

Material examined. Valašské Klobouky, Bílé potoky NR (20), 5.vi.2006, 1 ♂, SW, J. Petrůvka, Kladenka brook (26), 3.vi.2008, 1 ♂, MT, JCM. Sidonie, Sidonie NR (35), 25.v.2010, 1 ♂, MT, MC. Sidonie (39), 30.v.2007, 1 ♂, SW, J. Sidonie, Vlárský průsmyk pass (41), 30.v.2007, 1 ♂, SW, J. Radějov, Kútky NR – Mandát brook (60), 4.vi.2008, 1 ♂, MT, JCM. Radějov, Kútky NR (61), 26.vi.2008, 1 ♂, MT, JCM. Javorník, Jazevčí NNR (64), 25.vi.2009, 2 ♂♂, MT, JCM. Javorník, Machová NR – Rybnický potok brook (70), 24.v.2010, 1 ♂, MT, MC.

Comments. A European species known from Austria, Czech Republic, France, and Poland. It was found in the same habitats as *T. carthusianus* but is common only locally.

***Threticus balkaneolpinus* Krek, 1972**

Published records. JEŽEK & OMEJKOVÁ (2007), OMEJKOVÁ *et al.* (2008): Valašské Klobouky, Bílé potoky NR (20).

Additional material examined. Valašské Klobouky, Bílé potoky NR (20), 23.v.2006, 1 ♂ MT, O. Návojná (22), 31.v.2007, 1 ♂, SW, J. Nedašov, Lapač (25), 14.viii.2007, 1 ♂, SW, J. Petrůvka, Kladenka brook (26), 3.vi.2008, 1 ♂, MT, JCM. Sidonie, Kopanice (36), 30.v.2007, 1 ♂, SW, J. Vyškovec, Chmelinec NM (49), 17.v. and 21.x.2007, 7 ♂♂, MT, O.

Comments. Known from Austria, Bosnia, Czech Republic, France, Germany, Slovakia, and Transcaucasia. In central Europe, the larvae are probably associated with treeless tufa-forming fens in spring areas; the adults were collected in the neighbourhood of brooks and streams.

***Threticus incurvus* Krek, 1972**

(EN)

Published records. OMEJKOVÁ *et al.* (2008): Valašské Klobouky, Bílé potoky NR (20); Kněždub, Čertoryje NNR (53, 59).

Additional material examined. Valašské Klobouky, Bílé potoky NR (20), 23.v. and 25.vi.2006, 4 ♂♂, MT, O. Petrůvka, Kladenka brook (26), 3.vi.2008, 1 ♂, MT, JCM. Nová Lhota, Vápenky (67), 12.v. and 3.vi.2009, 2 ♂♂, MT, JCM. Javorník, Machová NR – Rybnický potok brook (70), 24.v.2010, 1 ♂, MT, MC.

Comments. A rare species, recorded from Austria, Bosnia, Bulgaria, Czech Republic, Germany, Slovakia, and Switzerland. It was found in various habitats (mountain slope spring areas, wet rocks, sandstones, forest margins, wallows, small brooks, banks of rivers, rills, and swampy meadows).

***Tinearia alternata* (Say, 1824)**

Material examined. Javorník, Machová NR (73), 9.vii.2007, 1 ♀, MT, JCM. Strání, Záhumenice NM (74), 15.vi.2010, 1 ♂, MT, MC.

Comments. A cosmopolitan species, generally very common. The larvae are saprobiontic, psammobiontic, coprobiontic, or associated with fungi; they develop in organic matter in spring areas, brooks, wet meadows, and excrements. In cases of their mass occurrence, the larvae can block the function of older biological filters in gravel sewage works.

***Tinearia lativentris* (Berdén, 1952)**

Material examined. Radějov, Kútky NR (61), 26.vi.2008, 1 ♀, MT, JCM. Javorník, Jazevčí NNR (63), 25.vi.2009, 1 ♀, MT, JCM. Nová Lhota, Hryzlácké Mlýny (65), 22.vi.2009, 1 ♀, MT, JCM. Nová Lhota, Vápenky (67), 15.vii.2009, 1 ♀, MT, JCM.

Comments. A Holarctic species, common in similar habitats as *T. alternata*. The larvae are saprobiontic.

***Tonnoiriella sieberti* Wagner, 1993**

(EN)

Material examined. Haluzice (7), 22.vi.2005, 1 ♂, SW, J. Valašské Klobouky, Bílé potoky NR (20), 17.vi.2007, 1 ♂, MT, O. Brumov-Bylnice, Bylničky – Heriánův láz (33), 17.vi.2008, 1 ♂, SW, J. Březová, Kalábová NM (45), 6.viii.2008, 1 ♂, SW, J. Lopeník, Hrubý Mechnáč (46), 25.vi. and 23.viii.2006, 12.viii.2007, 14 ♂♂, MT, O; 7.viii. and 28.viii.2008, 2 ♂♂, SW, J. Radějov, Žerotín NM (52), 5.viii.2008, 1 ♂, MT, JCM. Nová Lhota, Vápenky (67), 12.v.2009, 1 ♂, MT, JCM. Nová Lhota, Vápenky – Hubertova chata hut (68), v.2005, 1 ♂, MT, JCM. Javorník, Machová NR – Rybnický potok brook (70), 24.v.2010, 1 ♂, MT, MC. Březová, Janáčkův pramen spring (75), 20.ix.2005, 1 ♂, SW, J.

Comments. Generally a rare species, known from Albania, Macedonia, Greece, Czech Republic, Slovakia, and Syria; considered endangered in the Czech Republic. It may be found in swamps, rills, irrigation furrows in arable land, polluted water of fire reservoirs, slope spring areas in hills and mountains, and brooks with organic matter.

***Trichomyia urbica* Curtis, 1839**

(CR)

Material examined. Valašské Klobouky, Bílé potoky NR (20), 3.vi.2007, 2 ♂♂, MT, O. Svatý Štěpán, Chladný vrch NM (37), 16.vi.2010, 1 ♂, MT, MC. Vyškovec (50), 22.vii.2010, 1 ♂, SW, O.

Comments. Collected in many European countries (JEŽEK 2003). The larvae are xylophagous and occur in shaded slope spring areas and some other habitats with decaying organic matter. A critically endangered species in the Czech Republic.

***Trichopsychoda hirtella* (Tonnoir, 1919)**

Material examined. Petrůvka, U Petrůvky NM (3), 3.vi.2008, 1 ♀, MT, JCM. Valašské Příkazy (13), 6.vi.2006, 1 ♀, SW, J. Valašské Klobouky, Javorůvky NR (15), 31.vii.2004, 1 ♂, SW, C. Poteč, Ploštiny NR (19), 6.vi.2006, 1 ♀, SW, J. Valašské Klobouky, Bílé potoky NR (20), 23.viii.2006, 1 ♂, MT, O; 16.viii.2007, 1 ♂, 1 ♀, SW, J. Návojná (22), 31.v.2007, 1 ♀, SW, J. Brumov-Bylnice, Lazy NR (32), 23.vi.2005, 1 ♀, SW, J. Svatý

Štěpán, Chladný vrch NM (37), 16.vi.2010, 1 ♀, MT, MC. Sidonie (39), 30.v.2007, 1 ♂, SW, J. Sidonie, Vlárský průsmyk pass (41), 30.v.2007, 1 ♂, SW, J. Horní Němčí (43), 28.vi.2006, 1 ♂, SW, J. Žitková, Hutě NR (47), 31.vii.2007, 1 ♂, SW, J; 11.vi.2010, 1 ♂, SW, O. Radějov, Žerotín NM (52), 5.viii.2008, 1 ♂, MT, JCM. Kněždub, Čertoryje NNR – Járkovec brook (53), 29.v.2006, 1 ♀, MT, JCM. Kněždub, Čertoryje NNR (54), 31.vii.2006, 1 ♀, MT, JCM. Radějov, Kútky NR – Mandát brook (60), 4.vi.2008, 1 ♀, MT, JCM. Radějov, Kútky NR (61), 26.vi.2008, 1 ♀, MT, JCM. Javorník, Jazevečí NNR (63), 25.vi. and 15.vii.2009, 2 ♀♀, MT, JCM. Javorník, Jazevečí NNR (64), 25.vi.2009, 1 ♂, MT, JCM. Nová Lhota, Hryzlácké Mlýny (65), 22.vi.2009, 1 ♂, MT, JCM. Nová Lhota, Vápenky (67), 3.vi., 22.vi. and 15.vii.2009, 3 ♀♀, MT, JCM. Javorník, Machová NR (69), 14.vi.2010, 1 ♂, MT, MC. Javorník, Machová NR – Rybnický potok brook (70), 24.v.2010, 1 ♂, MT, MC. Javorník, Machová NR (73), 9.vii.2007, 1 ♂, MT, JCM. Strání, Záhumence NM (74), 25.v., 15.vi. and 12.viii.2010, 3 ♂♂, MT, MC.

Comments. Generally a common species, distributed from the British Isles to central Europe, the Apennines and the Balkans. The larvae are frequent in the rests of rotten plants and decayed fruits. The adults are often numerous in Malaise and yellow pan traps.

Ulomyia annulata annulata (Tonnoir, 1919)

Material examined. Kněždub, Kejda pond (55), 21.ix.2005, 1 ♂, SW, J. Javorník, Jazevečí NNR (63), 25.vi.2009, 1 ♂, MT, JCM.

Comments. So far known from Belgium, Germany, Czech Republic, Slovakia, Lithuania, and Russia (western Siberia – Novosibirsk region; another subspecies, *U. a. chimganensis* Ježek, 1997, was described from Uzbekistan). It inhabits shaded but sometimes also unshaded habitats with decaying organic matter, e.g. ponds, water reservoirs, swamps, rills, and wet meadows.

Ulomyia cognata (Eaton, 1893)

Material examined. Petrůvka, U Petrůvky NM (3), 3.vi.2008, 1 ♂, MT, JCM. Študlov, Požár hill (14), 6.vi.2006, 1 ♂, SW, J. Poteč, Ploštiny NR (19), 6.vi.2006, 1 ♂, SW, J. Valašské Klobouky, Bílé potoky NR (20), 16.viii.2007, 1 ♂, SW, J. Petrůvka, Kladenka brook (26), 3.vi.2008, 1 ♂, MT, JCM. Sidonie, Sidonie NR (35), 5.v.2010, 1 ♂, MT, MC. Svatý Štěpán, Chladný vrch NM (37), 24.v. and 16.vi.2010, 2 ♂♂, MT, MC. Lopeník, Hrubý Mechnáč (46), 7.viii. and 28.viii.2008, 2 ♂♂, SW, J. Žitková, Hutě NR (47), 31.vii.2007, 1 ♂, SW, J. Vyškovec, Drietomice brook (50), 5.viii., 12.viii., 30.ix.2007, 7 ♂♂, MT, O. K. Nová Lhota, Vápenky (67), 12.v.2009, 1 ♂, MT, JCM. Nová Lhota, Vápenky – Hubertova chata hut (68), v.2005, 1 ♂, MT, JCM. Javorník, Machová NR – Rybnický potok brook (72), 2.viii.2007, 1 ♂, SW, J. Strání, Svinárský potok brook (76), 29.viii.2005, 1 ♂, MT, JCM. Strání, Javorina NNR (78), 4.v.2005, 1 ♂, MT, JCM.

Comments. Widely distributed in Europe (known from France, Germany, Great Britain, Austria, Czech Republic, Slovakia, Poland, Lithuania, Slovenia, and Italy). Very common from lowlands to mountains in mosses in running water and in hygropetric habitats with decayed leaf packs.

Ulomyia fuliginosa (Meigen, 1804)

Material examined. Luhačovice, Gáborka brook (1), 30.vii.2007, 1 ♂, SW, J. Haluzice (7), 22.vi.2005, 1 ♂, SW, J. Brumov-Bylnice, Hložec (9), 21.vi.2005, 1 ♂, SW, J. Lačnov, Seninka brook (11), 15.viii.2007, 1 ♂, SW, J. Horní Lideč, Lačnovské rybníky ponds (12), 15.viii.2007, 1 ♂, SW, J. Valašské Klobouky, Javorůvky NR

Moth flies (Diptera: Psychodidae)

(15), 31.vii.2004 and 28.v.2007, 2 ♂♂, SW, C, J. Poteč, Ploštiny NR (19), 6.vi.2006, 1 ♂, SW, J. Valašské Klobouky, Bílé potoky NR (20), 23.v.2006, 3 ♂♂, MT, O; 5.vi.2006 and 16.viii.2007, 3 ♂♂, SW, J. Brumov-Bylnice, Hložec (21), 21.vi.2005, 1 ♂, SW, J. Návojná (22), 31.v.2007, 1 ♂, SW, J. Nedašov, Jalovcová stráž NR (23), 14.viii.2007, 1 ♂, SW, J. Nedašov, Lapač (25), 14.viii.2007, 1 ♂, SW, J. Petrůvka, Kladenska brook (26), 3.vi.2008, 1 ♂, MT, JCM. Záhorovice, Valy hill (27), 27.vi.2006, 1 ♂, SW, J. Brumov-Bylnice, Bylnička brook (31), 23.vi.2005, 1 ♂, SW, J. Brumov-Bylnice, Lazy NR (32), 23.vi.2005, 1 ♂, SW, J. Brumov-Bylnice, Bylničky – Heriánův láz (33), 23.vi.2005, 1 ♂, SW, J. Svatý Štěpán, Hluboče NM (34), 18.vi.2008, 1 ♂, SW, J. Sidonie, Sidonie NR (35), 25.v.2010, 1 ♂, MT, MC. Svatý Štěpán, Chladný vrch NM (37), 24.v.2010, 1 ♂, MT, MC. Sidonie (39), 30.v.2007, 1 ♂, SW, J. Horní Němčí, Dubníček (42), 28.vi.2006, 1 ♂, SW, J. Březová, Kalábová NM (45), 29.iv.2007, 4 ♂♂, MT, O; 27.viii.2008, 1 ♂, SW, J. Lopeník, Hrubý Mechnáč (46), 7.viii. and 28.viii.2008, 2 ♂♂, SW, J. Žitková, Hutě NR (47), 31.vii. and 2.x.2007, 3 ♂♂, SW, J. Výškovec, Chmelinec NR (49), 5.viii.2007, 5 ♂♂, MT, K. Výškovec, Drietomice brook (50), 5.viii. and 30.ix.2007, 6 ♂♂, MT, K, O. Kněždub, Kejda pond (55), 21.ix.2005, 1 ♂, SW, J. Kněždub, Traviska (58), 21.ix.2005, 1 ♂, SW, J. Nová Lhota, Vápenky (67), 12.v., 3.vi., 22.vi., 15.vii.2009, 4 ♂♂, MT, JCM. Nová Lhota, Vápenky – Hubertova chata hut (68), v.2005, 1 ♂, MT, JCM. Javorník, Machová NR – Rybnický potok brook (70), 24.v.2010, 1 ♂, MT, MC. Javorník, Machová NR – Rybnický potok brook (72), 26.vi.2006 and 2.viii.2007, 2 ♂♂, SW, J. Březová, Janáčkův pramen spring (75), 20.ix.2005, 1 ♂, SW, J. Strání, Svinárský potok brook (76), 29.viii.2005, 1 ♂, MT, JCM. Strání, Javorina NNR (78), 4.v.2005, 1 ♂, MT, JCM.

Comments. Generally one of the most common European species, widely distributed, known from throughout nearly whole Europe, although records from eastern Europe have been scarce so far (e.g. Lithuania). It occurs from lowlands to mountains, in mosses in running water habitats with decaying organic matter, slope spring areas, banks of streams and brooks, outflows of ponds, cutoffs of rivers, marshes, swampy meadows, and forest pools.

Yomormia furva (Tonnoir, 1940)

Published records. JEŽEK (2006b): Brumov-Bylnice, Kulajka (10). OMEJKOVÁ *et al.* (2008): Valašské Klobouky, Bílé potoky NR (20).

Comments. So far recorded only from Abkhazia, Belgium, Germany, Great Britain, and Czech Republic where it is scarce. It inhabits erosive furrows in beech forests, rills, and slope spring areas.

Ypsydocha setigera (Tonnoir, 1922)

Material examined. Petrůvka, U Petrůvky NM (3), 3.vi.2008, 1 ♀, MT, JCM. Petrůvka, Kladenska brook (26), 3.vi.2008, 1 ♂ 1 ♀, MT, JCM. Sidonie, Sidonie NR (35), 25.v.2010, 1 ♀, MT, MC. Hrubý Mechnáč (46), 17.vi.2007, 1 ♂, MT, O. Radějov, Kútky NR – Mandát brook (60), 4.vi.2008, 1 ♀, MT, JCM. Radějov, Kútky NR (61), 26.vi.2008, 1 ♀, MT, JCM. Velká nad Veličkou, Zahrady pod Hájem NNR (62), 25.vi.2009, 1 ♂, MT, JCM. Javorník, Jazevčí NNR (64), 25.vi.2009, 2 ♀♀, MT, JCM. Nová Lhota, Hryzlácké Mlýny (65), 12.v. and 22.vi.2009, 1 ♂ 1 ♀, MT, JCM. Nová Lhota, Vápenky (67), 12.v., 3.vi., 22.vi. and 15.vii.2009, 1 ♂ 3 ♀♀, MT, JCM. Strání, Záhumence NM (74), 5.v., 25.v. and 15.vi.2010, 1 ♂ 2 ♀♀, MT, MC.

Comments. A very common Holarctic species. It is a vector of larval stages of *Rhabditis* nematodes and Gamasidae mites. The larvae are saprobiontic and occur e.g. in manure.

Discussion and conclusions

Until recently, the Diptera fauna of the White Carpathians was inadequately known. Our inventory research of Psychodidae in 78 localities, restricted to the Moravian part of the mountains and mostly included in the Bílé Karpaty PLA, produced interesting results. A total of 108 species from 39 genera were recorded, i.e. 63% of the moth fly species recorded in the Czech Republic (172 species) and 72% of the species known from Moravia (151 species, both figures after JEŽEK *et al.* 2012). This is a somewhat higher number of species than has been recorded in similar faunistic surveys of other natural areas in the Czech Republic, i.e. the Jeseníky Mts (78 spp. collected in 226 localities; JEŽEK 2006b), the Orlické hory Mts. (66 spp. from 145 localities; JEŽEK & HÁJEK 2007), the Jizerské hory Mts and Frýdlant region (78 spp. from 79 localities; JEŽEK *et al.* 2008), the subalpine zone of the Krkonoše Mts. (23 spp. from 15 localities; JEŽEK *et al.* 2010), the Kokořínsko PLA (39 spp., recorded only by sweep-netting, from 36 localities; JEŽEK 2006c), the Pálava Biosphere Reserve (51 spp. from 41 localities; JEŽEK 1999b), the Podyjí National Park (64 spp. from 25 localities; JEŽEK *et al.* 2005), and the industry-affected region of Duchcov and the environs of Bílina (47 spp. from 7 localities; JEŽEK & BARTÁK 2000).

From a biogeographical viewpoint, the moth fly fauna of the White Carpathians represents a mix of prevalingly European (76 spp., 70%, of which 13 species [17%] are known to date only from central Europe), European-western Siberian (7 species, 6.5%), sub-Mediterranean (10 spp., 9%), Eurasian (1 sp.; 1%), Palaearctic (3 spp., 2.8%), Holarctic (8 spp., 7.5%), and cosmopolitan elements (3 spp., 2.8%). The general distribution of many Psychodidae species is, however, still incompletely recorded. Some of them have been known from very limited areas (usually comprising only a few countries) to date and are generally very rare, e.g. *Psychomormia vaillanti*, *Taramormia caspersi*, *T. pulcherrima*, *T. tatríca*, *Jungiella (Jungiella) hygrophila*, *J. (J.) jadarica*, *J. (J.) laetabilis*, *J. (J.) septentrionalis*, *J. (Psychocha) hassiaca*, *Telmatoscopus carpathicus*, *Chodopsycha buxtoni*, *Psychodocha itoco*, *Berdeniella vimmeri*, *Clytocerus (Boreoclytocerus) longicorniculatus*, *C. (B.) splendidus*, *C. (B.) tetracorniculatus*, *Pericoma (Pericoma) ljubiniensis*, *P. (P.) pallida*, *P. (P.) vestita*, *Philosepedon perdecorum*, and *Pneumia tjentistensis*. Three species have not yet been found outside the Czech Republic (*Parajungiella prikryli*, *Philosepedon pragense*, *Pneumia kabelaki*, and *Berdeniella kocii*).

Two species from the subfamily Psychodinae, *Psychomormia vaillanti* and *Apsycha pusilla* are reported in this paper for the first time from Moravia (i.e. they were previously known in the Czech Republic only from Bohemia). Two species, *Philosepedon perdecorum* and *Pneumia kabelaki* have recently been described based on material from the Bílé Karpaty PLA as new for science (OMELKOVÁ & JEŽEK 2012a,b).

Ulomyia fuliginosa and *Psychodocha gemina* were the most frequently collected species in the Bílé Karpaty PLA (both found in 35 localities), followed by *Psychoda phalaenoides* (32 localities), *Pneumia trivialis* (29 localities), and *Pericoma (Pachy-pericoma) blandula* (27 localities). In contrast, the following twelve species were collected at only one locality: *Apsycha pusilla*, *Berdeniella unispinosa*, *Clytocerus (Boreoclytocerus) tetracorniculatus*, *Jungiella (Jungiella) jadarica*, *Philosepedon humerale*, *P. perdecorum*, *P. pragense*, *Pneumia kabelaki*, *Psychodocha itoco*, *Psychomormia vaillanti*, *Sciria advena*, and *Telmatoscopus carpathicus*.

The highest numbers of psychodid species were recorded in the following localities: Valašské Klobouky – Bílé potoky NR (42 species), Nová Lhota – Vápenky (40 spp.), Petrůvka – Kladenka brook (38 spp.), Kněždub – Čertoryje NNR (38 spp.), Strání – Záhumenice NM (37 spp.), Javorník – Machová NR (35 spp.), Javorník – Jazevčí NNR (34 spp.), Lopeník – Hrubý Mechnáč (33 spp.), and Strání – Javorina NNR (26 spp.). A single psychodid species was collected at four localities (Březová – Janáčkův pramen spring, Nedašov – Kaňoury NM, Svatý Štěpán – between Okrajky and Pláňavy, and Kněždub – between Šumárník and Výzkum hills).

The fauna of the Psychodidae of the Bílé Karpaty PLA is particularly noteworthy for a high proportion of species considered threatened in the Czech Republic (JEŽEK 2005). Specifically, we recorded 13 species classified as critically endangered in the national Red List of threatened invertebrates (*Clytocyclus (Boreoclytocyclus) tetracorniculatus*, *Jungiella (Psychocha) laminata*, *Lepiseodina tristis*, *Oomormia andrenipes*, *Parajungiella pseudolongicornis*, *P. serbica*, *Peripsychoda fusca*, *Philosepedon balkanicum*, *Promormia silesiensis*, *Psychomormia vaillanti*, *Sciria advena*, *Taramormia pulcherrima*, and *Trichomyia urbica*), nine species classified as endangered (*Panimerus albifacies*, *Pericoma (Pericoma) exquisita*, *Pneumia crispus*, *P. cubitospinosa*, *P. stammeri*, *Promormia eatoni*, *Telmatoscopus brittani*, *Threticus incurvus*, and *Tonnoiriella sieberti*), and four species classified as vulnerable (*Atrichobrunettia (Mirusiella) graeca*, *Parajungiella prikryli*, *Philosepedon pragense*, and *Telmatoscopus carpathicus*). Furthermore, 28 additional species have not been assessed for the Red List by JEŽEK (2005) as they have largely been documented from the Czech Republic only in very recent years. They appear, however, scarce in the country and are considered here as candidate species for the Red List: *Apsycha pusilla*, *Berdeniella kocii*, *Chodopsycha buxtoni*, *Clytocyclus (Boreoclytocyclus) longicorniculatus*, *C. (B.) splendidus*, *Jungiella (Jungiella) jadarica*, *J. (J.) laetabilis*, *J. (J.) septentrionalis*, *J. (Psychocha) hassiaca*, *Lepiseodina rothschildi*, *Mormia revisenda*, *Paramormia (Phyllotelmatoscopus) acuta*, *Pericoma (Pachypericoma) formosa*, *P. (Pericoma) ljubiniensis*, *P. (P.) pallida*, *P. (P.) pannonica*, *P. (P.) pingarestica*, *P. (P.) tonnoiri*, *P. (P.) vestita*, *Philosepedon perdecorum*, *Pneumia compta*, *P. kabelaki*, *P. tjentistensis*, *Psychoda crassipennis*, *Psychodocha itoco*, *Taramormia caspersi*, *T. tatraca*, and *Yomormia furva*. The most valuable localities in the Bílé Karpaty PLA from the viewpoint of the occurrence of threatened and rare species are the Bílé potoky NR near Valašské Klobouky (number 20 in the list of collecting sites), Nová Lhota – Vápenky (site no. 67), Petrůvka – Kladenka brook (site no. 26), Vyškovec (site no. 50), Záhumenice NM near Strání (site no. 74), Jazevčí NNR near Javorník (sites no. 63, 64), Machová NR near Javorník (sites no. 69, 70, 72, 73), Javorina NNR near Strání (sites no. 77, 78), Hrubý Mechnáč near Lopeník (site no. 46), and Čertoryje NNR near Kněždub (sites no. 53, 54, 59).

The species diversity of the family Psychodidae at individual sites generally depends on the presence of a rich mosaic of available microhabitats offering suitable conditions for development to the various species of moth flies. The presence of a mosaic of differing habitats over the whole area at landscape level is also a general basic condition for conservation of diversity, both for the family Psychodidae and other groups of Diptera.

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Souhrn

Koutulovití (Diptera: Psychodidae) Chráněné krajinné oblasti a biosférické rezervace Bílé Karpaty.

Údaje o výskytu čeledi Psychodidae (koutulovití) z řádu dvoukřídlí (Diptera) na území Chráněné krajinné oblasti a Biosférické rezervace Bílé Karpaty (tj. moravské části pohorí Bílé Karpaty) byly v minulosti jen velmi sporadické. Systematický výzkum fauny koutulí v této oblasti proběhl až v letech 2005–2010, kdy bylo na 78 lokalitách zjištěno celkem 108 druhů v 39 rodech (část údajů byla publikována v několika dřívějších dílčích příspěvcích: JEŽEK 2006a, 2009b, JEŽEK & OMELKOVÁ 2007, OMELKOVÁ & JEŽEK (2012a,b), OMELKOVÁ *et al.* 2006, 2007, 2008; všechny, včetně velké většiny dosud nepublikovaných nálezů, jsou pak shrnuty v této práci). Ve srovnání s výsledky faunistických průzkumů v jiných chráněných územích v ČR (JEŽEK 1999b; JEŽEK & BARTÁK 2000; JEŽEK 2006b,c; JEŽEK & HÁJEK 2007; JEŽEK *et al.* 2005, 2008, 2010) je oblast Bílých Karpat jedním z nejbohatších území v druhovém zastoupení koutulovitých v České republice vůbec. Zajímavými nálezy jsou např. dva druhy z podčeledi Psychodinae, *Psychomormia vaillantii* (Wagner, 1977) a *Apsycha pusilla* (Tonnoir, 1922), publikované zde poprvé z území Moravy. *Pneumia kabelaki* byla v paralelní publikaci popsána jako nový druh pro vědu na základě materiálu z PR Sidonie (OMELKOVÁ & JEŽEK 2012a), stejně jako *Philosepedon perdecorum* z okolí rybníka Kejda v Kněždubském háji (OMELKOVÁ & JEŽEK 2012b). Z doposud zjištěných druhů koutulí v CHKO Bílé Karpaty je za ochranářsky významný považován výskyt celkem 26 druhů zařazených do Červeného seznamu ohrožených bezobratlých České republiky v kategoriích „kriticky ohrožený“ (13 druhů), „ohrožený“ (9 druhů) a „zranitelný“ (4 druhy) i dalších 28 druhů, které sice v Červeném seznamu zatím formálně nefiguruje, ale vyznačují se celostátně vzácným výskytem. Největší druhová bohatost koutulí byla zaznamenána v přírodní rezervaci (PR) Bílé potoky v blízkosti Valašských Klobouk (42 druhů), dále na lokalitách Nová Lhota – Vápenky (40 druhů), potok Kladenka u Petrůvky (38 druhů), národní přírodní rezervace (NPR) Čertoryje (38 druhů), přírodní památka Záhumenice (37 druhů), PR Machová (35 druhů), NPR Jazevčí (34 druhů), Hrubý Mechnáč u Lopeníka (33 druhů) a v neposlední řadě NPR Javorina (26 druhů). Druhová bohatost čeledi Psychodidae na jednotlivých lokalitách je závislá na pestré mozaice zastoupených mikrohabitátů, které poskytují koutulím vhodné podmínky pro jejich vývoj. Základním předpokladem pro zachování diverzity nejen samotných koutulí, ale i ostatních dvoukřídlých, je rovněž zachování pestré rozmanitosti lučních, lesních a vodních biotopů v celé oblasti.

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Horse flies (Diptera: Tabanidae) of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic)

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JEŽEK J. & OMELKOVÁ M. 2012: Horse flies (Diptera: Tabanidae) of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic). In: MALENOVSKÝ I., KMENT P. & KONVIČKA O. (eds.): Species inventories of selected insect groups in the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic). *Acta Musei Moraviae, Scientiae biologicae* (Brno) **96(2)** (2011): 803–817. – An account of the family Tabanidae in the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (south-eastern Moravia, Czech Republic) is presented, with a total of 8 genera and 26 species of horse flies. A survey of 38 localities in 2005–2010 yielded records of 25 species. One species, *Tabanus sudeticus* Zeller, 1842, was collected from the area only in the distant past. Important among the records are *Haematopota bigoti* Gobert, 1881 and *H. ocelligera* (Kröber, 1922), both new for the fauna of the Czech Republic, and *Therioptectes gigas* (Herbst, 1787) which is classified as a vulnerable species in the national Red List of threatened invertebrates. A brief overview of distribution and ecology is provided for all the taxa recorded.

Key words. Diptera, Tabanidae, faunistics, biogeography, new records, species conservation, White Carpathians, Moravia, Czech Republic

Introduction

The family Tabanidae (horse flies) is a well-known group of haematophagous, dipterous insects of great economic importance. Females usually suck the blood of mammals, while both sexes drink water from pools and ponds in flight and often feed on nectar as well, mainly from umbellate plants. The eggs of Tabanidae are laid in compact masses, usually on the under-surface of leaves overhanging water or wet soil. Most of the larvae are predatory, aquatic, semi-aquatic or edaphic; mature larvae migrate to places of lower humidity and the pupa obtecta is unlikely to be submerged. For additional information on the biology of horse flies see CHVÁLA (1980) and CHVÁLA & JEŽEK (1997).

Altogether 3,500 species of horse flies are known worldwide; 541 of them occur in the Palaearctic Region, 213 in Europe, and 55 in the Czech Republic (50 in Bohemia, 48 in Moravia) (JEŽEK & BARTÁK 2005, CHVÁLA 2009). The Czech fauna has been addressed in detail in a monograph by CHVÁLA (1980). Further information on the distribution, ecology and biology of certain Czech species may be found in papers by ANDREEVA (1990), CHVÁLA (2007), LECLERCQ (1960, 1967), MOUCHA (1976), and OLSUFJEV (1977). Additional taxonomical and faunistic papers, regional identification guides, keys for the identification of larvae and accounts of species important from biogeographical and

nature conservation points of view were thoroughly reviewed by JEŽEK (1977, 1980) and JEŽEK *et al.* (2008).

In the past, only a few dipterists visited the Bílé Karpaty Mts. [=White Carpathians] to collect flies and published results were scarce (OMELKOVÁ *et al.* 2007, 2008, MALENOVSKÝ *et al.* 2012). Thus only four species of horse flies were known from the Bílé Karpaty Mts. prior to our study: *Therioplectes gigas*, collected in Javorník and Mt. Velká Javořina (MOUCHA & CHVÁLA 1958b, 1959; GUNÁROVÁ 1984; JEŽEK & JEŽKOVÁ 1978); *Tabanus spodopterus* published from Luhačovice (MOUCHA & CHVÁLA 1956, JEŽEK 1995), Javorník (MOUCHA & CHVÁLA 1958a) and Strážnice (JEŽEK 1995); *Tabanus sudeticus* known from Javorník (MOUCHA & CHVÁLA 1958a); and *Heptatoma pellucens* recorded from Luhačovice (JEŽEK 1995).

Our paper extends knowledge of the horse fly fauna of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (abbreviated to Bílé Karpaty PLA hereafter) by evaluating a large body of recently-collected material; this includes two species reported for the Czech Republic for the first time.

Material and methods

The study is based on 8,633 specimens of Tabanidae collected in the Bílé Karpaty PLA and some closely adjacent areas in 2005–2010. The data come from a total of 38 localities. A general overview of the whole area's natural history has been provided by KUČA *et al.* (1992), MACKOVČIN & JATIOVÁ (2002), JONGEPIEROVÁ (2008), and KONVIČKA *et al.* (2012). Collecting was mostly performed by means of Malaise traps (emptied at about three-week intervals; only the dates of sample removal are given for each record in the list of material examined), occasionally supplemented by yellow pan traps and sweep-netting. All material from traps, originally stored in alcohol, as well as dry material obtained by sweeping, was pinned for deposition in collections and further study (most of the material is deposited in the collection of the National Museum, Prague, with a few voucher specimens in the private collection of M. Omelková, Brno as well). The nomenclature in this paper follows CHVÁLA *et al.* (1972) and CHVÁLA (1988).

The following abbreviations are used throughout: NM – Nature Monument, NNR – National Nature Reserve, NR – Nature Reserve, PLA – Protected Landscape Area (all of these are the various categories and terms specified by the Czech system of legally protected natural areas); MT – Malaise trap, SW – sweep-netting, YPT – yellow pan traps; C – P. Chvojka leg., J – J. Ježek leg. & det., M – J. Macek leg. (e.g. JCM – J. Ježek, P. Chvojka & J. Macek leg., J. Ježek det.; CM – P. Chvojka & J. Macek leg., J. Ježek det.), O – M. Omelková leg. & det.; VU – vulnerable (a category specified by the Red List of threatened invertebrates of the Czech Republic, *cf.* JEŽEK & BARTÁK 2005).

List of collecting sites

Each entry in the list of collecting sites is arranged as follows: number of locality, name of the nearest village or town, local name of the collecting site or name of a small-

scale protected area (reserve) where appropriate, code of the field (in parentheses) in the faunistic and floristic grid mapping system of central Europe (EHRENDORFER & HAMANN 1965, ZELENÝ 1972, PRUNER & MÍKA 1996; each basic field divided into 16 subfields, cf. KONVIČKA *et al.* 2011), GPS coordinates (specified for the Malaise traps and small, well-defined localities only), altitude, and habitat.

1. Petrůvka, U Petrůvky NM (6872d4), 49°06'35"N 17°48'39"E, 430 m a.s.l.; meadow on slope above a forest brook.
2. Horní Lideč, Lačnovské rybníky ponds (6874a4), 49°11'01"N 18°02'20"E, 470 m a.s.l.; camping ground, dried gutters.
3. Valašské Klobouky, Javorůvky NR (6874c1), 49°08'04"N 18°01'56"E, 530 m a.s.l.; wet meadows, small forest brooks, spring areas, slope treeless tufa fens.
4. Poteč, Ploščiny NR (6874c2), 49°08'40"N 18°03'46"E, 630 m a.s.l.; slope spring area, wet meadows.
5. Valašské Klobouky, Bílé potoky NR (6874c3), 49°06'56"N 18°01'38"E, 420 m a.s.l.; meadows with slope spring areas, rills, forest edges.
6. Petrůvka, Kladenka brook (6972b2), 49°05'50"N 17°48'53"E, 390 m a.s.l.; alluvium, forest and meadows.
7. Nezdenice (6972d3), 245 m a.s.l.; brook, pastures and small forests.
8. Štítná nad Vláří-Popov, along Vlára river (6973b4), 310–320 m a.s.l.; pastures, meadows, fields, small forests.
9. Šanov, Rokytenka brook (6973c2), 415 m a.s.l.; pastures and small forests.
10. Brumov-Bylnice, Bylničky – Heriánův láz meadow and Bylnička brook (6974a4), 520 m a.s.l.; meadow spring area within beech forest, swampy soil.
11. Svatý Štěpán, Hluboče NM – Hlubočská stráž slope, Hlubočský potok brook (6974a4), 49°03'36"N 18°03'14"E, 430–490 m a.s.l.; slope spring area.
12. Sidonie, Sidonie NR (6974a4), 49°03'04"N 18°04'17"E, 450 m a.s.l.; beech forest.
13. Svatý Štěpán, Chladný vrch NM (6974c1), 49°01'34"N 18°00'32"E, 595 m a.s.l.; forest swamps, crib, small pond.
14. Horní Němčí, Dubníček (7071d2), 48°55'42"N 17°38'50"E, 478 m a.s.l.; wet pastures, spring areas, pastoral huts, cowpats.
15. Lopeník, Hrubý Mechnáč (7072d2), 48°56'27"N 17°48'04"E, 716 m a.s.l.; meadow spring areas and tufa fens, pastures.
16. Lopeník (7072d2), 675 m a.s.l.; meadow spring areas, brooks, pastures.
17. Žitková, Hutě NR (7073a2), 48°59'30"N 17°54'29"E, 460 m a.s.l.; wet meadows with scattered reeds, slope spring areas, decaying hay, brook.
18. Vyškovec, Drietomice brook – SE of the village (7073c1), 510 m a.s.l.; forest valley.
19. Radějov, Žerotín NM (7169b4), 48°51'44"N 17°19'42"E, 304 m a.s.l.; xerothermic meadow.
20. Kněždub, Čertoryje NNR – Járkovec brook (7170a4), 48°51'22"N 17°24'29"E, 320 m a.s.l.; shallow swampy valley, shrubs.
21. Kněždub, Čertoryje NNR (7170a4), 48°51'35"N 17°24'17"E, 340 m a.s.l.; meadows with scattered trees.
22. Kněždub, Čertoryje NNR – Radějovka brook (7170b3), 48°51'31"N 17°25'50"E, 355–360 m a.s.l.; alluvium.
23. Radějov, Kútky NR – Mandát brook (7170c2), 48°49'43"N 17°22'47"E, 350 m a.s.l.; small pond, forest edge.
24. Radějov, Kútky NR (7170c2), 48°50'05"N 17°23'05"E, 415 m a.s.l.; wet meadows, pastures (grazed by fallow deers).
25. Velká nad Veličkou, Zahrady pod Hájem NNR (7171a1), 48°53'04"N 17°31'59"E, 385 m a.s.l.; fragments of species-rich meadows, shrubs.
26. Javorník, Jazevčí NNR – left tributary of the Velička river (7171a4), 48°52'12"N 17°33'55"E, 360 m a.s.l.; brook, forest edge.

27. Javorník, Jazevčí NNR – floodplain lobe of the Velička river (7171a4), 360 m a.s.l.; winding river, forest edge.
28. Javorník, Jazevčí NNR (7171a4), 48°52'09"N 17°33'24"E, 415 m a.s.l.; species-rich meadows on slopes, small woods.
29. Nová Lhota, Hryzlácké Mlýny (7171b1), 48°53'10"N 17°36'08"E, 450 m a.s.l.; meadows and pastures with scattered trees.
30. Nová Lhota, Vápenky – left tributary of the Velička brook (7171b3), 48°52'16"N 17°36'58"E, 435 m a.s.l.; alluvium with shrubs, country cottage colony.
31. Nová Lhota, Vápenky, Javorina NNR – Vadovská (7171b4), 520–970 m a.s.l.; beech forest, forest glade, brook.
32. Javorník, Machová NR (7171c1), 48°49'37"N 17°31'41"E, 460 m a.s.l.; meadows.
33. Javorník, Machová NR – Rybnický potok brook (7171c1), 48°49'41"N 17°32'32"E, 400 m a.s.l.; alluvium.
34. Javorník, Filipovské údolí valley – between Liščí bouda hunting lodge and Megovka hostel (7171c2); brook, small bridge, swampy area in beech forest.
35. Javorník, Machová NR – Rybnický potok brook (7171c2), 48°49'59"N 17°32'05"E, 425 m a.s.l.; alluvium of forest stream, marshes.
36. Javorník, Machová NR (7171c3), 48°49'21"N 17°31'20"E, 445 m a.s.l.; species-rich meadows, forest edge.
37. Strání, Záhumenice NM (7172a1), 48°53'48"N 17°41'12"E, 460 m a.s.l.; forest brook.
38. Strání, Javořina NNR – peak (7172a3), 48°51'23"N 17°40'09"E, 935 m a.s.l.; mountain meadow.

Annotated list of species

All examined material for each species is listed; individual records are ordered according to the number of the collecting site. Each record is arranged as follows: name of the collecting site and its number (in parentheses), date(s) of collection(s), number of specimens, collecting method, and collector(s). Published data are cited including the name of the nearest village, town or mountain, and the corresponding basic field code number in the faunistic and floristic grid mapping system of central Europe in parentheses.

Atylotus rusticus (Linnaeus, 1767)

Material examined. Nezdenice (7), 27.vi.2006, 1 ♀, SW, J.

Comments. A common species, widely distributed throughout Europe and Siberia, present also in North Africa and Turkey. It is usually collected in agricultural landscapes.

Chrysops caecutiens (Linnaeus, 1758)

Material examined. Petrůvka, U Petrůvky NM (1), 16.vii. and 4.viii.2008, 2 ♀♀, MT, JCM. Valašské Klobouky, Javorůvky NR (3), 18.v.2009, 1 ♀, SW, J. Valašské Klobouky, Bílé potoky NR (5), 13.vii. and 31.vii.2006, 2 ♀♀, MT, JCM. Petrůvka, Kladenka brook (6), 4.viii. and 25.viii.2008, 1 ♂ 2 ♀♀, MT, JCM. Nezdenice (7), 27.vi.2006, 1 ♀, SW, J. Žitková, Hutě NR (17), 11.vii.2008, 1 ♂ 3 ♀♀, MT, JCM. Kněždub, Čertoryje NNR – Járkovec brook (20), 20.vi., 10.vii. and 31.vii.2006, 5 ♂♂ 7 ♀♀, MT, JCM. Kněždub, Čertoryje NNR (21), 29.v., 10.vii. and 31.vii.2006, 7 ♀♀; 21.viii.2006, 1 ♀ (f. *ludens* Loew, 1858); all MT, JCM. Kněždub, Čertoryje NNR – Radějovka brook (22), 14.vii. and 12.viii.2010, 8 ♀♀, MT, CM. Radějov, Kútky NR – Mandát brook (23), 15.vii.2008, 2 ♀♀, MT, JCM. Radějov, Kútky NR (24), 15.vii.2008, 1 ♀, MT, JCM. Velká nad Veličkou, Zahrady pod Hájem NNR (25), 13.vii. and 15.vii.2009, 2 ♀♀, SW, J and MT, JCM.

Horse flies (Diptera: Tabanidae)

Javorník, Jazevčí NNR (26), 5.viii. and 24.viii.2009, 5 ♀♀, MT, JCM. Javorník, Jazevčí NNR (28), 15.vii. and 16.vii., 5.viii.2009, 7 ♀♀, SW, J and MT, JCM. Nová Lhota, Hryzlácké Mlýny (29), 15.vii. and 4.viii.2009, 2 ♀♀, SW, J and MT, JCM. Nová Lhota, Vápenky (30), 22.vi., 15.vii. and 5.viii.2009, 5 ♀♀, MT, JCM. Javorník, Machová NR (32), 2.viii.2007 and 10.viii.2010, 3 ♀♀, SW, J and MT, CM. Javorník, Machová NR – Rybnický potok brook (33), 13.vii.2010, 14 ♀♀, MT, CM. Javorník, Machová NR – Rybnický potok brook (35), 28.v., 9.vii. and 2.viii.2007, 19 ♀♀, MT, JCM. Javorník, Machová NR (36), 18.v., 28.v., 9.vii., 2.viii., and 22.viii.2007, 16 ♀♀, MT, JCM. Strání, Záhumenice NM (37), 9.vii. and 12.viii.2010, 1 ♂ 2 ♀♀, MT, CM.

Comments. A Euro-Siberian species distributed from the Iberian Peninsula throughout Europe and the Mediterranean Region to the Russian Far East, China and Mongolia. Common in forest regions from lowlands to mountains. Its larvae live at the bottom of rills and brooks; the pupae may be found close to the surface in the soil of meandering streams.

Chrysops relictus Meigen, 1820

Material examined. Horní Lideč, Lačnovské rybníky ponds (2), 15.viii.2007, 2 ♀♀, SW, J.

Comments. A Euro-Siberian forest-steppe species. It has been reported from lowlands and hilly regions. The larvae live in lentic water of ponds, shallow water reservoirs with soiled bottom or in muddy grounds of slow-flowing irrigation canals, brooks and rivers.

Chrysops viduatus (Fabricius, 1794)

Material examined. Radějov, Žerotín NM (19), 5.viii.2008, 1 ♂, MT, JCM. Kněždub, Čertoryje NNR – Járkovec brook (20), 31.vii.2006, 1 ♂, MT, JCM. Radějov, Kútky NR – Mandát brook (23), 26.vi. and 5.viii.2008, 1 ♂ 1 ♀, MT, JCM. Javorník, Jazevčí NNR (26), 25.vi.2009, 1 ♂, MT, JCM. Javorník, Machová NR – Rybnický potok brook (35), 18.v. and 9.vii.2007, 2 ♂♂ 1 ♀, MT, JCM.

Comments. Widely distributed from Europe to western Siberia, including some Mediterranean islands. The immature stages develop in swampy and marshy habitats (e.g. alder forests) in various landscapes.

Haematopota bigoti Gobert, 1881

Material examined. Poteč, Ploščiny NR (4), 31.vii.2006, 1 ♀, MT, JCM. Javorník, Jazevčí NNR (26), 15.vii.2009, 1 ♀, MT, JCM. Javorník, Machová NR – Rybnický potok brook (35), 2.viii.2007, 1 ♀, MT, JCM. Javorník, Machová NR (36), 2.viii.2007, 3 ♀♀, MT, JCM.

Comments. Primarily a southern European species, with the northern limit of distribution reaching Hungary and Slovakia; present also in North Africa and isolated localities in England, Germany, Poland, Denmark, and Sweden. Recorded here for the first time for the Czech Republic. Biology unknown.

Haematopota crassicornis Wahlberg, 1848

Material examined. Poteč, Ploščiny NR (4), 13.vii.2006, 1 ♂, MT, JCM. Valašské Klobouky, Bílé potoky NR (5), 13.vii.2006, 1 ♀, MT, JCM. Žitková, Hutě NR (17), 25.vi.2006, 1 ♀, MT, O. Kněždub, Čertoryje NNR – Járkovec brook (20), 10.vii.2006, 1 ♀, MT, JCM. Javorník, Jazevčí NNR (26), 5.viii.2009, 1 ♀, MT, JCM.

Javorník, Machová NR – Rybnický potok brook (35), 28.v.2007, 1 ♀, MT, JCM. Javorník, Machová NR (36), 28.v.2007, 3 ♀♀, MT, JCM.

Comments. A forest species, widely distributed throughout Europe eastwards to the Ural Mts. and western Siberia. The larvae were found in muddy banks of ponds and lakes, swampy forests and small meandering rivers (JEŽEK 1971).

***Haematopota italica* Meigen, 1804**

Material examined. Poteč, Ploštiny NR (4), 13.vii.2006, 1 ♀, MT, JCM. Valašské Klobouky, Bílé potoky NR (5), 23.vi. and 31.vii.2006, 5 ♀♀, MT, JCM. Žitková, Hutě NR (17), 21.viii.2007, 1 ♀, MT, JCM.

Comments. A European species distributed from the Iberian Peninsula, the North Sea coast and Sweden to the Ural Mts., Caspian Sea and Turkey. Its larvae were described by FOLCO (1934). The habitats of the immature stages are probably the same as given for the other *Haematopota* species listed in this paper.

***Haematopota ocelligera* (Kröber, 1922)**

Material examined. Žitková, Hutě NR (17), 29.v.2007, 1 ♀, MT, JCM.

Comments. A southern European species distributed from Spain to Turkey, also known from North Africa. It is recorded here for the first time for the Czech Republic. The only known locality in the Bílé Karpaty Mts. lies at the northern tip of an extensive range. Biology unknown.

***Haematopota pluvialis* (Linnaeus, 1758)**

Material examined. Petrůvka, U Petrůvky NM (1), 23.vi., 16.vii., 4.viii., 25.viii. and 23.ix.2008, 6 ♂♂ 74 ♀♀, MT, JCM. Poteč, Ploštiny NR (4), 22.vi., 13.vii., 31.vii. and 23.viii.2006, 94 ♂♂ 192 ♀♀, MT, JCM. Valašské Klobouky, Bílé potoky NR (5), 13.vii., 31.vii. and 23.viii.2006, 12 ♂♂ 357 ♀♀, MT, JCM; 19.vii.2006, 7 ♀♀, MT, O. Petrůvka, Kladenka brook (6), 16.vii., 4.viii. and 25.viii.2008, 9 ♀♀, MT, JCM. Nezenice (7), 27.vi.2006, 5 ♀♀, SW, J. Sidonie, Sidonie NR (12), 5.vii.2010, 1 ♀, MT, CM. Svatý Štěpán, Chladný vrch NM (13), 11.viii. and 8.ix.2010, 3 ♀♀, MT, CM. Lopeník, Hrubý Mechnáč (15), 3.vii., 19.vii. and 23.viii.2006, 1 ♂ 2 ♀♀, MT, O. Žitková, Hutě NR (17), 17.vi., 19.vi., 31.vii. and 21.viii.2007, 11.vii.2008, 5 ♂♂ 167 ♀♀, MT, JCM; 25.vi.2006, 2 ♀♀, MT, O. Radějov, Žerotín NM (19), 14.vii.2008, 1 ♀, MT, JCM. Kněždub, Čertoryje NNR – Járkovec brook (20), 20.vi., 10.vii., 31.vii. and 31.viii.2006, 11 ♂♂ 531 ♀♀, MT, JCM. Kněždub, Čertoryje NNR (21), 20.vi., 10.vii., 31.vii. and 21.viii.2006, 17 ♂♂ 77 ♀♀, MT, JCM. Kněždub, Čertoryje NNR – Radějovka brook (22), 14.vii. and 12.viii.2010, 5 ♂♂ 35 ♀♀, MT, CM. Radějov, Kútky NR – Mandát brook (23), 15.vii. and 26.viii.2008, 11 ♀♀, MT, JCM. Radějov, Kútky NR (24), 26.vi. and 15.vii.2008, 1 ♂ 15 ♀♀, MT, JCM. Velká nad Veličkou, Zahrady pod Hájem NNR (25), 25.vi. and 15.vii.2009, 6 ♀♀, MT, JCM. Javorník, Jazevčí NNR (26), 25.vi., 15.vii., 5.viii. and 24.viii.2009, 2 ♂♂ 106 ♀♀, MT, JCM. Javorník, Jazevčí NNR (28), 25.vi., 15.vii., 5.viii. and 24.viii.2009, 2 ♂♂ 36 ♀♀, MT, JCM. Nová Lhota, Hryzlácké Mlýny (29), 15.vii., 4.viii., 24.viii. and 26.viii.2009, 1 ♂ 16 ♀♀, SW, J, MT, JCM. Nová Lhota, Vápenky (30), 15.vii. and 5.viii.2009, 15 ♀♀, MT, JCM. Javorník, Machová NR (32), 13.vii., 10.viii. and 7.ix.2010, 3 ♂♂ 11 ♀♀, MT, CM. Javorník, Machová NR – Rybnický potok brook (33), 3.vii., 13.vii., 10.viii. and 7.ix.2010, 6 ♂♂ 80 ♀♀, MT, CM. Javorník, Machová NR – Rybnický potok brook (35), 18.v., 9.vii., 2.viii. and 22.viii.2007, 8 ♂♂ 418 ♀♀, MT, JCM. Javorník, Machová NR (36), 18.v., 9.vii., 2.viii., 22.viii. and 10.ix.2007, 16.vii.2009, 178 ♂♂ 1177 ♀♀, SW, J and MT, JCM. Strání, Záhumenice NM (37), 9.vii. and 12.viii.2010, 11 ♂♂ 51 ♀♀, MT, CM.

Comments. A widely distributed species, known from whole Europe eastwards to eastern Siberia, Tien-Shan and China. It is supposed to be a vector of tularemia and anthrax. The larvae were found even far from the water in meadows, pastures, and spoil dumps of open-cast coal mines.

***Haematopota scutellata scutellata* (Olsufjev, Moucha et Chvála, 1964)**

Material examined. Poteč, Ploščiny NR (4), 31.vii.2006, 1 ♀, MT, JCM. Valašské Klobouky, Bílé potoky NR (5), 31.vii.2006, 9 ♀♀, MT, JCM; 19.vii.2006, 1 ♀, MT, O. Petrůvka, Kladenka brook (6), 16.vii. and 4.viii.2008, 2 ♂♂ 2 ♀♀, MT, JCM. Sidonie, Sidonie NR (12), 11.viii.2010, 2 ♀♀, MT, CM. Svatý Štěpán, Chladný vrch NM (13), 8.ix.2010, 1 ♀, MT, CM. Žitková, Hutě NR (17), 31.vii.2007, 1 ♀, MT, JCM. Kněždub, Čertoryje NNR – Járkovec brook (20), 31.vii. and 31.viii.2006, 11 ♀♀, MT, JCM. Radějov, Kútky NR – Mandát brook (23), 15.vii. and 5.viii.2008, 2 ♀♀, MT, JCM. Radějov, Kútky NR (24), 15.vii. and 5.viii.2008, 2 ♂♂, MT, JCM. Javorník, Jazevčí NNR (26), 5.viii.2009, 1 ♀, MT, JCM. Nová Lhota, Vápenky, Javorina NNR – Vadovská (31), 14.vii.2009, 1 ♀, SW, J. Javorník, Machová NR – Rybnický potok brook (35), 9.vii., 2.viii. and 22.viii.2007, 10.viii.2010, 2 ♂♂ 59 ♀♀, MT, JCM. Javorník, Machová NR (36), 2.viii. and 22.viii.2007, 24 ♀♀, MT, JCM. Strání, Záhumenice NM (37), 9.vii., 12.viii. and 9.ix.2010, 4 ♀♀, MT, CM.

Comments. A European subspecies, discontinuously distributed from Portugal through central Europe eastwards as far as to the Caspian Sea. The larvae inhabit the littoral zone of small forest water reservoirs and meandering streams at higher altitudes, and swamps with tussocks of sedges and rushes (*Carex*, *Juncus* and *Scirpus* spp.).

***Haematopota subcylindrica* Pandellé, 1883**

Material examined. Petrůvka, U Petrůvky NM (1), 16.vii.2008, 1 ♀, MT, JCM. Poteč, Ploščiny NR (4), 13.vii. and 31.vii.2006, 4 ♀♀, MT, JCM. Horní Němčí, Dubníček (14), 28.vi.2006, 1 ♀, SW, J. Kněždub, Čertoryje NNR – Járkovec brook (20), 20.vi. and 10.vii.2006, 2 ♀♀, MT, JCM. Javorník, Machová NR (36), 18.v.2007, 1 ♀, MT, JCM. Strání, Záhumenice NM (37), 9.vii.2010, 1 ♀, MT, CM.

Comments. A Euro-Siberian species, with records scattered over a wide area extending from the Iberian Peninsula and the British Isles through southern Sweden, central Europe, northern Balkans, Caucasus, Kazakhstan and Tien-Shan to eastern Siberia; also known from Turkey and Iran. The larvae inhabit similar habitats as those of the foregoing species.

***Heptatoma pellucens pellucens* (Fabricius, 1776)**

Published records. JEŽEK (1995) and OMELKOVÁ *et al.* (2008): Luhačovice (6872/6972).

Material examined. Žitková, Hutě NR (17), 11.vii.2008, 1 ♀, MT, JCM. Kněždub, Čertoryje NNR – Radějovka brook (22), 14.vii.2010, 1 ♀, MT, CM. Velká nad Veličkou, Zahrady pod Hájem NNR (25), 24.viii.2009, 1 ♀, SW, J. Javorník, Jazevčí NNR (27), 26.viii.2009, 1 ♀, SW, J. Javorník, Machová NR – Rybnický potok brook (35), 9.vii.2007, 1 ♀, MT, JCM.

Comments. A European and western Siberian subspecies, distributed northwards up to the boreal forest zone near the Arctic Circle in Russia and southwards to the Alps, the Balkans and Ukraine. Its larvae develop in the littoral of forest pools and water reservoirs in parks; they are, however, absent from high altitudes (CHVÁLA & JEŽEK 1997).

***Hybomitra bimaculata* (Macquart, 1826)**

Material examined. Nová Lhota, Hryzlácké Mlýny (29), 3.vi.2009, 1 ♀, MT, JCM. Javorník, Machová NR (36), 9.vii.2007, 1 ♀, MT, JCM.

Comments. Widespread in the Palaearctic Region. The larvae were found in the littoral of ponds, lakes, artificial water reservoirs, slow-flowing drainage canals, forest swamps, and wet meadows.

***Hybomitra ciureai* (Séguy, 1937)**

Material examined. Kněždub, Čertoryje NNR (21), 20.vi.2006, 1 ♀, MT, JCM.

Comments. A Euro-Siberian, widely distributed forest-steppe species. Its larvae occur in the littoral of forest water reservoirs, muddy meandering rivers and inundated wet meadows (CHVÁLA & JEŽEK 1969).

***Hybomitra distinguenda* (Verrall, 1909)**

Material examined. Petrůvka, U Petrůvky NM (1), 16.vii.2008, 1 ♀, MT, JCM. Poteč, Ploščiny NR (4), 13.vii. and 31.vii.2006, 2 ♀♀, MT, JCM. Valašské Kloubouky, Bílé potoky NR (5), 23.vi.2006, 1 ♀, MT, JCM. Petrůvka, Kladenka brook (6), 23.vi.2008, 1 ♀, MT, JCM. Nezdenice (7), 27.vi.2006, 1 ♀, SW, J. Kněždub, Čertoryje NNR – Járkovec brook (20), 10.vii. and 31.vii.2006, 4 ♀♀, MT, JCM. Kněždub, Čertoryje NNR – Radějovka brook (22), 12.viii.2010, 1 ♀, MT, CM. Radějov, Kútky NR – Mandát brook (23), 15.vii.2008, 1 ♀, MT, JCM. Radějov, Kútky NR (24), 26.vi.2008, 1 ♀, MT, JCM. Javorník, Jazevčí NNR (26), 15.vii.2009, 2 ♀♀, MT, JCM. Javorník, Jazevčí NNR (28), 16.vii.2009, 1 ♀, SW, J. Nová Lhota, Hryzlácké Mlýny (29), 15.vii.2009, 1 ♀, SW, J. Nová Lhota, Vápenky, Javorina NNR – Vadovská (31), 14.vii.2009, 1 ♀, SW, J. Javorník, Machová NR – Rybnický potok brook (33), 13.vii.2010, 1 ♀, MT, CM. Javorník, Machová NR – Rybnický potok brook (35), 9.vii.2007, 3 ♀♀, MT, JCM. Javorník, Machová NR (36), 18.v., 9.vii. and 2.viii.2007, 13 ♀♀, MT, JCM. Strání, Javorina NNR – peak (38), 23.vi. and 15.vii.2009, 3 ♀♀, MT, JCM.

Comments. A widely distributed Palaearctic forest species (JEŽEK 1995). Its larvae develop in the littoral zone of forest ponds, floating peat moss and peaty lake margins, and marshy swamps in lowlands and hilly regions.

***Hybomitra micans* (Meigen, 1804)**

Material examined. Valašské Kloubouky, Bílé potoky NR (5), 23.vi.2006, 1 ♀, MT, JCM.

Comments. A European species. Its immature stages are mostly found in forest habitats (marshes and peat bogs) from lowlands to mountains.

***Hybomitra tropica* (Linnaeus, 1758)**

Material examined. Radějov, Kútky NR – Mandát brook (23), 4.vi.2008, 1 ♀, MT, JCM.

Comments. A European species. The larvae were found in the littoral zone of forest water reservoirs or streams, and in swamps and peat bogs.

***Silvius alpinus* (Scopoli, 1763)**

Material examined. Valašské Klobouky, Bílé potoky NR (5), 31.vii.2006, 1 ♂, MT, JCM. Petrůvka, Kladenka brook (6), 4.viii.2008, 1 ♀, MT, JCM. Kněždub, Čertoryje NNR (21), 31.vii.2006, 1 ♀, MT, JCM. Radějov, Kútky NR – Mandát brook (23), 15.vii.2008, 1 ♀, MT, JCM. Nová Lhota, Hryzlácké Mlýny (29), 15.vii.2009, 1 ♀, SW, J.

Comments. Distributed in southern and central Europe, Ural, Caucasus and Turkey; localities published from North Africa still have to be verified. Always collected in low numbers. The larvae live in small muddy rivers, springs, banks of water reservoirs, and alluvial plant and wood deposits.

***Tabanus autumnalis* Linnaeus, 1761**

Material examined. Poteč, Ploščiny NR (4), 13.vii.2006, 1 ♂, MT, JCM. Kněždub, Čertoryje NNR – Járkovec brook (20), 29.v. and 10.vii.2006, 3 ♀♀, MT, JCM. Kněždub, Čertoryje NNR (21), 10.vii.2006, 2 ♀♀, MT, JCM. Radějov, Kútky NR – Mandát brook (23), 26.viii.2008, 1 ♀, MT, JCM. Javorník, Jazevčí NNR (26), 5.viii.2009, 1 ♀, MT, JCM. Javorník, Machová NR (36), 18.v.2007, 1 ♀, MT, JCM.

Comments. Widely distributed in the Palaearctic region, rarely collected also at higher altitudes in mountains. The larvae were found in muddy littoral of ponds, lakes and large artificial water reservoirs; the life cycle may take up to two years.

***Tabanus bromius* Linnaeus, 1758**

Material examined. Petrůvka, U Petrůvky NM (1), 16.vii. and 4.viii.2008, 3 ♀♀, MT, JCM. Poteč, Ploščiny NR (4), 13.vii., 31.vii., 23.viii. and 20.ix.2006, 22 ♂♂ 24 ♀♀, MT, JCM. Valašské Klobouky, Bílé potoky NR (5), 23.vi., 13.vii., 31.vii., 23.viii.2006, 147 ♂♂ 42 ♀♀, MT, JCM. Petrůvka, Kladenka brook (6), 23.vi., 16.vii., 4.viii. and 25.viii.2008, 2 ♂♂ 42 ♀♀, MT, JCM. Nezdenice (7), 27.vi.2006, 21 ♀♀, SW, J. Štítná nad Vláří-Popov (8), 21.vi.2005, 90 ♀♀, SW, J. Brumov-Bylnice, Bylničky (10), 21.v.2009, 1 ♀, SW, J; Svatý Štěpán, Hluboče NM (11), 18.vi.2008, 1 ♀, SW, J. Sidonie, Sidonie NR (12), 11.viii.2010, 1 ♀, MT, CM. Svatý Štěpán, Chladný vrch NM (13), 4.vii. and 11.viii.2010, 1 ♂ 7 ♀♀, MT, CM. Horní Němčí, Dubníček (14), 28.vi.2006, 7 ♀♀, SW, J. Lopeník (16), 7.viii.2008, 6 ♀♀, SW, J. Žitková, Hutě NR (17), 31.vii.2007 and 11.vii.2008, 3 ♀♀, MT, JCM. Radějov, Žerotín NM (19), 5.viii.2008, 1 ♀, MT, JCM. Kněždub, Čertoryje NNR – Járkovec brook (20), 20.vi., 10.vii., 31.vii., 31.viii. and 18.ix.2006, 361 ♂♂ 1468 ♀♀, MT, JCM. Kněždub, Čertoryje NNR (21), 20.vi., 10.vii., 31.vii., 21.viii. and 18.ix.2006, 45 ♂♂ 258 ♀♀, MT, JCM. Kněždub, Čertoryje NNR – Radějovka brook (22), 14.vii., 12.viii. and 9.ix.2010, 7 ♂♂ 183 ♀♀, MT, CM. Radějov, Kútky NR – Mandát brook (23), 15.vii., 5.viii. and 26.viii.2008, 13 ♀♀, MT, JCM. Radějov, Kútky NR (24), 26.vi., 15.vii. and 5.viii.2008, 2 ♂♂ 33 ♀♀, MT, JCM. Velká nad Veličkou, Zahrady pod Hájem NNR (25), 13.vii., 15.vii., 6.viii. and 24.viii.2009, 3 ♂♂ 17 ♀♀, SW, J, MT, JCM. Javorník, Jazevčí NNR (26), 25.vi., 15.vii., 5.viii., 24.viii. and 14.ix.2009, 44 ♂♂ 60 ♀♀, MT, JCM. Javorník, Jazevčí NNR (27), 26.viii.2009, 6 ♀♀, SW, J. Javorník, Jazevčí NNR (28), 25.vi., 15.vii., 16.vii., 5.viii., 24.viii. and 14.ix.2009, 12 ♂♂ 110 ♀♀, SW, J, MT, JCM. Nová Lhota, Hryzlácké Mlýny (29), 15.vii., 4.viii. and 26.viii.2009, 1 ♂ 135 ♀♀, SW, J, MT, JCM. Nová Lhota, Vápenky (30), 22.vi.2009, 1 ♀, MT, JCM. Nová Lhota, Vápenky, Javorina NNR – Vadovská (31), 14.vii.2009, 39 ♀♀, SW, J. Javorník, Machová NR (32), 13.vii. and 10.viii.2010, 1 ♂ 4 ♀♀, MT, CM. Javorník, Machová NR – Rybnický potok brook (33), 3.vii., 13.vii., 10.viii.2010, 2 ♂♂ 42 ♀♀, MT, CM. Javorník, Filipovské údolí (34), 1.viii.2007, 1 ♀, SW, J. Javorník, Machová NR – Rybnický potok brook (35), 18.v., 9.vii., 2.viii. and 22.viii.2007, 3 ♂♂ 54 ♀♀, MT, JCM. Javorník, Machová NR (36), 18.v., 9.vii., 2.viii., 22.viii., 10.ix.2007, 256 ♂♂ 800 ♀♀, SW, J, MT, JCM. Strání, Záhumenice NM (37), 9.vii., 12.viii. and 9.ix.2010, 35 ♂♂ 71 ♀♀, MT, CM. Strání, Javorina NNR – peak (38), 23.vi., 15.vii., 5.viii. and 24.viii.2009, 18 ♀♀, MT, JCM.

Comments. A widely distributed European and western Siberian forest and steppe species, collected at various altitudes. It is supposed to be a vector of tularemia, anthrax and trypanosomiasis. The larvae were found in the littoral zone of water reservoirs and banks of brooks and small rivers, but also far from the water in meadows and pastures.

***Tabanus cordiger* Meigen, 1820**

Material examined. Valašské Klobouky, Bílé potoky NR (5), 13.vii.2006, 1 ♂, MT, JCM. Radějov, Žerotín NM (19), 14.vii.2008, 1 ♀, MT, JCM. Kněždub, Čertoryje NNR – Járkovec brook (20), 29.v., 20.vi., 10.vii. and 31.vii.2006, 5 ♂♂ 9 ♀♀, MT, JCM. Kněždub, Čertoryje NNR (21), 29.v., 20.vi., 10.vii. and 31.vii.2006, 3 ♂♂ 7 ♀♀, MT, JCM. Radějov, Kútky NR (24), 26.vi. and 15.vii.2008, 2 ♀♀, MT, JCM. Javorník, Jazevčí NNR (26), 25.vi.2009, 1 ♀, MT, JCM. Nová Lhota, Vápenky (30), 3.vi.2009, 1 ♀, MT, JCM. Javorník, Machová NR – Rybnický potok brook (33), 13.vii.2010, 1 ♀, MT, CM. Javorník, Machová NR (36), 18.v., 28.v., 18.vi., 9.vii. and 2.viii.2007, 4 ♂♂ 6 ♀♀, MT, JCM. Strání, Záhumenice NM (37), 9.vii.2010, 1 ♀, MT, CM. Strání, Javorina NNR – peak (38), 24.viii.2009, 1 ♂, MT, JCM.

Comments. Widely distributed in Europe, Canary Islands, North Africa, Caucasus, and the Middle East. The reophilic larvae may be found among emergent herbaceous vegetation of small rivers and below stones at the bottom of streams, mostly preferring places with sandy banks. The life cycle takes up to two years.

***Tabanus glaucopsis* Meigen, 1820**

Material examined. Valašské Klobouky, Bílé potoky NR (5), 31.vii. and 23.viii.2006, 3 ♂♂ 1 ♀, MT, JCM; 13.–16.viii.2007, 1 ♂, YPT, J. Sidonie, Sidonie NR (12), 8.ix.2010, 1 ♀, MT, CM. Žitková, Hutě NR (17), 31.vii.2007, 1 ♀, MT, JCM. Kněždub, Čertoryje NNR – Járkovec brook (20), 31.vii. and 31.viii.2006, 9 ♂♂ 5 ♀♀, MT, JCM. Kněždub, Čertoryje NNR (21), 31.vii. and 18.ix.2006, 3 ♀♀, MT, JCM. Radějov, Kútky NR – Mandát brook (23), 26.viii.2008, 1 ♀, MT, JCM. Velká nad Veličkou, Zahrady pod Hájem NNR (25), 24.viii.2009, 1 ♀, SW, J. Javorník, Jazevčí NNR (26), 24.viii.2009, 1 ♀, MT, JCM. Javorník, Jazevčí NNR (28), 24.viii.2009, 1 ♀, MT, JCM. Javorník, Machová NR (36), 2.viii. and 22.viii.2007, 4 ♀♀, MT, JCM. Strání, Záhumenice NM (37), 12.viii.2010, 1 ♀, MT, CM.

Comments. A Euro-Siberian species. The biology of immature stages is insufficiently known, only a single larva from a river bank has been reared to eclosion (ANDREEVA 1990).

***Tabanus maculicornis* Zetterstedt, 1842**

Material examined. Petrůvka, U Petrůvky NM (1), 23.vi.2008, 1 ♀, MT, JCM. Poteč, Ploštiny NR (4), 22.vi. and 13.vii.2006, 1 ♂ 7 ♀♀, MT, JCM. Valašské Klobouky, Bílé potoky NR (5), 23.vi., 13.vii. and 31.vii.2006, 2 ♂♂ 13 ♀♀, MT, JCM; 19.vii.2006, 1 ♀, MT, O. Brumov-Bylnice, Bylničky (10), 21.v.2009, 6 ♀♀, SW, J. Svätý Štěpán, Chladný vrch NM (13), 11.viii.2010, 1 ♀, MT, CM. Žitková, Hutě NR (17), 29.v. and 19.vi.2007, 11.vii.2008, 10 ♀♀, MT, JCM. Vyškovec, Drietomice brook (18), 8.vii.2010, 1 ♀, SW, C. Kněždub, Čertoryje NNR – Járkovec brook (20), 20.vi., 10.vii. and 31.vii.2006, 1 ♂ 13 ♀♀, MT, JCM. Kněždub, Čertoryje NNR (21), 10.vii.2006, 1 ♀, MT, JCM. Radějov, Kútky NR (24), 26.vi. and 15.vii.2008, 3 ♀♀, MT, JCM. Javorník, Jazevčí NNR (28), 15.vii.2009, 2 ♀♀, MT, JCM. Nová Lhota, Vápenky, Javorina NNR – Vadovská (31),

Horse flies (Diptera: Tabanidae)

14.vii.2009, 2 ♀♀, SW, J. Javorník, Machová NR – higher slopes (32), 13.vii.2010, 1 ♀, MT, CM. Javorník, Machová NR – Rybnický potok brook (33), 13.vii.2010, 1 ♀, MT, CM. Javorník, Machová NR – Rybnický potok brook (35), 18.v.2007, 1 ♀, MT, JCM. Javorník, Machová NR (36), 18.v., 28.v., 9.vii. and 2.viii.2007, 3 ♂♂ 22 ♀♀, MT, JCM. Strání, Javořina NNR – peak (38), 15.vii.2009, 1 ♀, MT, JCM.

Comments. A European and western Siberian forest species, distributed throughout Europe including the boreal ecoregion and also present in the Caucasus, Kazakhstan and around the Lake Baikal. The larval habitats are the same as in *T. bromius*.

Tabanus spodopterus spodopterus Meigen, 1820

Published records. MOUCHA & CHVÁLA (1956), JEŽEK (1995), OMELKOVÁ *et al.* (2008): Luhačovice (6872/6972). MOUCHA & CHVÁLA (1958a), OMELKOVÁ *et al.* (2008): Javorník (7171). JEŽEK (1995), OMELKOVÁ *et al.* (2008): Strážnice (7069/7169).

Material examined. Valašské Klobouky, Bílé potoky NR (5), 13.vii. and 31.vii.2006, 8 ♂♂ 2 ♀♀, MT, JCM. Šanov, Rokytenka brook (9), 14.vii.2009, 1 ♀, SW, C. Kněždub, Čertoryje NNR – Járkovec brook (20), 10.vii. and 31.vii.2006, 5 ♂♂ 7 ♀♀, MT, JCM. Kněždub, Čertoryje NNR (21), 31.vii.2006, 1 ♂, MT, JCM. Radějov, Kútky NR (24), 15.vii.2008, 1 ♀, MT, JCM. Javorník, Jazevčí NNR (28), 5.viii.2009, 1 ♀, MT, JCM. Nová Lhota, Hryzlácké Mlýny (29), 15.vii.2009, 2 ♀♀, SW, J. Javorník, Machová NR – Rybnický potok brook (33), 3.vii.2010, 1 ♀, MT, CM. Strání, Záhumenice NM (37), 12.viii.2010, 1 ♀, MT, CM.

Comments. Restricted to central and southern Europe (including southern Russia). Biology unknown.

Tabanus sudeticus Zeller, 1842

Published records. MOUCHA & CHVÁLA (1958a), OMELKOVÁ *et al.* (2008): Javorník (7171).

Comments. A European and western Siberian species, rare in lowlands; a typical member of the fauna in hills and mountains with the presence of cattle. Its larvae live in swamps near forest water reservoirs. They may require three years to complete the life cycle (ANDREEVA 1990).

Theriopectes gigas (Herbst, 1787)

(VU)

Published records. MOUCHA & CHVÁLA (1958b, 1959), GUNÁROVÁ (1984), JEŽEK & JEŽKOVÁ (1978), OMELKOVÁ *et al.* (2008): Javorník (7171), Velká Javořina Mt. (7172).

Material examined. Javorník, Machová NR (32), 14.vi.2010, 1 ♀, MT, CM. Javorník, Machová NR (36), 28.v.2007, 1 ♀, MT, JCM.

Comments. Known from southern and central Europe, with the northern limit of distribution passing through France, the North Sea coast, Czech Republic (present here only in southern Moravia), Slovakia, and Hungary; reaching the Apennines and the Balkans in the south. Biology unknown. A vulnerable species according to the Red List of threatened invertebrates of the Czech Republic (JEŽEK & BARTÁK 2005).

Discussion and conclusions

Based on historical work and more particularly upon our own recent collections, a total of 26 species of 8 genera of Tabanidae are currently known from the Bílé Karpaty PLA. This number makes up 47% of the horse fly species recorded from the Czech Republic and 54% of the species known from Moravia (CHVÁLA 2009, JEŽEK & BARTÁK 2005). The diversity of the horse fly fauna of the Bílé Karpaty is comparable to several other regions in the Czech Republic that have previously been studied in detail: the Pálava Biosphere Reserve (29 spp. of Tabanidae – JEŽEK 1999), the industry-affected region of Bilina and the environs of Duchcov in north-western Bohemia (17 spp. – JEŽEK & BARTÁK 2000), the Podyjí National Park and its environs (33 spp. – JEŽEK *et al.* 2005), and the Jizerské hory Mts. and Frýdlant region (26 spp. – JEŽEK *et al.* 2008). Thanks to the rich material examined in our study, the Czech part of the Bílé Karpaty Mts. has probably become a relatively well-known region in respect to horse-fly fauna. Future additional findings, particularly of some southern European species, however, cannot be excluded.

From a zoogeographical point of view, the horse fly fauna of the Bílé Karpaty is made up of species of European (5 spp., 19%), European and western Siberian (6 spp., 23%), Euro-Siberian (7 spp., 27%), sub-Mediterranean (5 spp., 19%) and Palaearctic (3 spp., 11%) distributions.

The most interesting findings made during this faunistic survey in the Bílé Karpaty PLA are records of *Haematopota bigoti* from Jazevčí NNR, Machová NR and Ploščiny NR, and *H. ocelligera* from Hutě NR, both species new for the fauna of the Czech Republic. Neither has yet been evaluated in the national Red List of Czech invertebrate fauna (JEŽEK & BARTÁK 2005) because they were collected only after its current edition. However, they are probably scarce in the Czech Republic and may be considered candidate species for the Red List. *Theriopectes gigas* from Machová NR was classified by JEŽEK & BARTÁK (2005) as a vulnerable species in the Czech Republic. *Theriopectes gigas* and *Haematopota ocelligera* probably reach their northern limit of distribution in the Bílé Karpaty PLA.

Tabanus bromius was the most frequently-collected species in the study area (in 32 localities), followed by *Haematopota pluvialis* (24 localities) and *H. scutellata scutellata* (14 localities). In contrast, six species (*Atylotus rusticus*, *Chrysops relictus*, *Hybomitra ciureai*, *H. micans*, *H. tropica*, and *Haematopota ocelligera*) were collected at only a single locality. The highest numbers of specimens and species of horse flies were found in Čertoryje NNR (3,203 specimens, 15 species), Machová NR (3,008 specimens, 17 species) and Bílé potoky NR (619 specimens, 11 species). Only one tabanid species was trapped at five of the collecting sites. The species richness of Tabanidae at any given site partly depends on the number of cattle and deer in the landscape, which may explain the differences between the individual localities.

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Souhrn

Ovádovití (Diptera: Tabanidae) Chráněné krajinné oblasti a biosférické rezervace Bílé Karpaty.

Během faunistického výzkumu hmyzu v Chráněné krajinné oblasti a biosférické rezervaci Bílé Karpaty, který byl v letech 2005–2010 zaměřený i na některé vybrané skupiny dvoukřídlých, bylo na 38 lokalitách nasbíráno celkem 25 druhů čeledi ovádovití (Tabanidae; dohromady 8633 jedinců). Spolu s výhradně historickým nálezem druhu *Tabanus sudeticus* bylo v CHKO Bílé Karpaty dosud nalezeno 26 druhů ovádů, což odpovídá 47 % z celkového počtu 57 druhů známých z České republiky. Mezi významné nálezy patří zejména *Haematopota bigoti* Gobert, 1881 a *H. ocelligera* (Kröber, 1922), jakožto první nálezy pro faunu ČR, a vzácný druh *Theriopectes gigas*, který je v Červeném seznamu ohrožených druhů bezobratlých ČR zařazen v kategorii zranitelný (VU). Poslední dva zmíněné druhy dosahují v Bílých Karpatech své severní hranice rozšíření. Z celkového počtu zjištěných druhů má 5 druhů (19 %) evropské, 6 druhů (23 %) evropsko-západosibiřské, 7 druhů (27 %) evropsko-sibiřské, 5 druhů (19 %) submediteránní a 3 druhy (11 %) palearktické rozšíření. Nejhojnějšími druhy byly *Tabanus bromius* (sbíraný na 32 lokalitách), *Haematopota pluvialis* (24 lokalit) a *H. scutellata* (14 lokalit). Pouze na jediné lokalitě byly nalezeny druhy *Atylotus rusticus*, *Chrysops relictus*, *Hybomitra ciureai*, *H. micans*, *H. tropica* a *Haematopota ocelligera*. Nejvíce jedinců a druhů bylo odchyceno na lokalitách NPR Čertoryje (3203 jedinců, 15 druhů), PR Machová (3008 jedinců, 17 druhů) a PR Bílé potoky (619 jedinců, 11 druhů). Na základě této práce lze konstatovat, že fauna čeledi Tabanidae moravské části Bílých Karpat je nyní poměrně dobře známa, avšak ojedinělé nálezy dalších jihoevropských druhů ovádů v této oblasti nelze vyloučit.

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Sawflies (Hymenoptera: Symphyta) of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic)

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MACEK J. 2012: Sawflies (Hymenoptera: Symphyta) of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic). In: MALENOVSKÝ I., KMENT P. & KONVIČKA O. (eds.): Species inventories of selected insect groups in the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic). *Acta Musei Moraviae, Scientiae biologicae* (Brno) **96(2)** (2011): 819–896. – A faunistic survey of Hymenoptera: Symphyta was conducted in selected localities of the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (south-eastern Moravia, Czech Republic) in 2005–2010. In total, 333 species were recorded in the area (Pamphiliidae: 5 spp., Megalodontesidae: 1 sp., Orussidae: 1 sp., Argidae: 16 spp., Diprionidae: 2 spp., Tenthredinidae: 302 spp., Cephidae: 4 spp., Cimbicidae: 1 sp.). Twenty-one of these species are classified as vulnerable and nine as endangered in the Red List of threatened invertebrates of the Czech Republic. *Eurhadinoceraea amauros* (Zombori, 1977), *Periclista albipennis* (Zaddach, 1859), *Nematus umbratus* Thomson, 1871, *Pachynematus itoi* Okutani, 1955, *Pristiphora leucopus* Hellén, 1948, and *Pristiphora subopaca* Lindqvist, 1955 are reported here for the first time for the Czech Republic, and *Strongylogaster baikalensis* Naito, 1990, *Aprosthemata fuscicornis* (Thomson, 1871), *Cladardis hartigi* Liston, 1995, and *Pristiphora luteipes* Lindqvist, 1955 for the first time for Moravia. New food plant records are provided for the larvae of the following species: *Amauronematus sagmarius* Konow, 1895 – *Salix aurita* and *S. cinerea*; *Arge fuscipennis* (Herrich-Schäffer, 1835) – *Geranium sanguineum*; *Macrophya albipuncta* (Fallén, 1808) – *Geranium sanguineum*; *Nematus incompletus* Förster, 1854 – *Lathyrus pratensis*; *Pachyprotasis variegata* (Fallén, 1808) – *Pyrethrum corymbosum*; *Sciapteryx consobrina* Klug, 1814 – *Ranunculus acris*; *Sterictiphora longicornis* Chevin, 1982 – *Carpinus betulus*; *Tenthredo trabeata* (Klug, 1817) – *Senecio ovatus* and *Petasites hybridus*.

Key words. Hymenoptera, Symphyta, faunistics, biogeography, new records, host plants, species conservation, White Carpathians, Czech Republic, Moravia

Introduction

The Symphyta, or sawflies, are a group of largely phytophagous insects with larvae feeding largely on various gymnosperms and angiosperms. In some habitats (especially in submontane and montane zones), sawflies make up one of the most significant constituents of local food chains. Most species are exophytophagous (feeding externally on leaves), while a few are endophytophagous (mining within plant tissues). In terms of food plant associations, sawflies include polyphagous, oligophagous and monophagous species. Especially the oligophagous and monophagous, stenoecious species, which respond to even small changes in the environment, are generally useful bio-indicators for assessment of habitat quality. Continuous monitoring of those sensitive species may provide early warning of progressive, still-latent, negative changes in ecosystems.

The Bílé Karpaty Protected Landscape Area and Biosphere Reserve (abbreviated to Bílé Karpaty PLA hereafter) was established to protect the most valuable habitats in the Czech part of the White Carpathians [= Bílé Karpaty Mts.] in south-eastern Moravia

along the border with Slovakia. General characteristics of the natural history of the area are given by KUČA *et al.* (1992), MACKOVČIN & JATIOVÁ (2002), JONGEPIEROVÁ (2008), and KONVIČKA *et al.* (2012).

The fauna of the Symphyta of the Bílé Karpaty PLA remains quite poorly known. Previously published information on the regional fauna includes some new faunistic records for the Czech Republic and Moravia based on finds in the Bílé Karpaty PLA by MACEK (2006, 2008a), a general overview of the sawfly fauna of the White Carpathian grasslands by MACEK (2008b), and a comparative faunistic survey of sawflies from three nature reserves in the south-eastern part of the area (Čertoryje, Machová and Kútky) by MACEK (2009).

The present study summarizes all the previously published records and evaluates an extensive material of sawflies recently collected throughout the Bílé Karpaty PLA.

Material and methods

In cooperation with the management of the Bílé Karpaty PLA, a six-year research project was undertaken in 2005–2010 to monitor the occurrence, distribution, and population and seasonal dynamics of the sawflies in the Bílé Karpaty PLA.

Most of the sawfly material evaluated in this study was collected with Malaise traps installed at various locations along selected flight paths of insects throughout the entire season of insect flight activity, from spring to autumn. The traps were monitored and emptied at three-week intervals. Some additional material was collected by sweep-netting. Further, field-collected larvae were reared in order to investigate certain gaps in our knowledge of biology and larval morphology. All the material was determined by Jan Macek. Voucher specimens are preserved in the collections of the Department of Entomology of the National Museum, Prague (NMPC).

The system, nomenclature and the information on general distribution of Symphyta in the paper are adopted from TAEGER *et al.* (2010); the data on food plants are based on TAEGER *et al.* (1998) unless otherwise indicated. The nomenclature of plants follows KUBÁT *et al.* (2002). Conservation status for individual species of Symphyta is given according to the Red List of threatened invertebrates of the Czech Republic (MACEK 2005).

The following abbreviations are used in the paper: NNR – National Nature Reserve, NR – Nature Reserve, NM – Nature Monument, PLA – Protected Landscape Area (all of these are the various categories and terms specified by the Czech system of legally protected natural areas); MT – Malaise trap; EN – endangered species, VU – vulnerable species (the latter two categories derived from the Red List of threatened invertebrates of the Czech Republic, *cf.* MACEK 2005).

List of collecting sites

Each entry in the list of collecting sites is arranged as follows: number of locality, name of the nearest village or town, local name of the collecting site or name of a small-

scale protected area (reserve) where appropriate, code of the field (in parentheses) in the faunistic and floristic grid mapping system of central Europe (EHRENDORFER & HAMANN 1965, PRUNER & MÍKA 1996, each basic field divided into 16 subfields, cf. KONVIČKA *et al.* 2012), GPS coordinates, altitude, and habitat.

1. Petrůvka, U Petrůvky NM (6872d4), 49°06'35"N 17°48'39"E, 430 m a.s.l.; mesic meadow, pasture.
2. Poteč, Ploštiny NR (6874c2), 49°08'40"N 18°03'46"E, 630 m a.s.l.; forest meadow, meadow spring area.
3. Valašské Klobouky, Bílé potoky NR (6874c3), 49°06'56"N 18°01'38"E, 420 m a.s.l.; forest spring area, fringe of montane brook with *Petasites*.
4. Nedašova Lhota, Zápečová (6874d1), 49°07'38"N 18°06'41"E, 550 m a.s.l.; alder carr.
5. Petrůvka, Kladenka brook (6972b2), 49°05'50"N 17°48'53"E, 390 m a.s.l.; alder carr.
6. Nedašov, Holý vrch (6974a2), 49°04'59"N 18°04'58"E, 830 m a.s.l.; spruce forest.
7. Sidonie, Sidonie NR (6974a2), 49°03'04"N 18°04'17"E, 450 m a.s.l.; montane beech forest.
8. Svatý Štěpán, Chladný vrch NM (6974c1), 49°01'34"N 18°00'32"E, 595 m a.s.l.; forest spring area, montane beech forest.
9. Lopeník, Hrubý Mechnáč (7072d1), 48°56'21"N 17°47'53"E, 705 m a.s.l.; meadow spring area.
10. Žitková, Hutě NR (7073a2), 48°59'24"N 17°54'20"E, 480 m a.s.l.; meadow spring area, mesic *Arrhenatherum* meadow.
11. Vyškovec, Chmelínek NM (7073c1), 48°56'24"N 17°51'12"E, 440 m a.s.l.; wet *Cirsium* meadow.
12. Vyškovec (7073c1), 48°55'57"N 17°50'49"E, 570 m a.s.l.; meadow spring area, wet *Cirsium* meadow.
13. Radějov, Žerotín NM (7169b4), 48°51'44"N 17°19'42"E, 304 m a.s.l.; peri-alpide basiphilous thermophilous oak forest, tall mesic scrub.
14. Velká nad Veličkou, Zahrady pod Hájem NNR (7171a1), 48°53'04"N 17°31'59"E, 385 m a.s.l.; mesic *Arrhenatherum* meadow, scattered oak-hornbeam woods, orchards.
15. Kněždub, Čertoryje NNR (7171a4), 48°51'35"N 17°24'17"E, 340 m a.s.l.; mesic herbaceous fringe, mesic *Arrhenatherum* meadow.
16. Kněždub, Čertoryje NNR (7171a4), 48°51'22"N 17°24'29"E, 320 m a.s.l.; willow-alder carr, wet *Cirsium* meadow.
17. Javorník, Jazevčí NNR (7171a4), 48°52'09"N 17°33'24"E, 415 m a.s.l.; mesic *Arrhenatherum* meadow, tall mesic scrub.
18. Javorník, Jazevčí NNR (7171a4), 48°52'12"N 17°33'55"E, 360 m a.s.l.; wet *Cirsium* meadow, ash-alder carr.
19. Nová Lhota, Hryzlácké Mlýny (7171b1), 48°53'10"N 17°36'08"E, 450 m a.s.l.; mesic herbaceous fringe, mesic *Arrhenatherum* meadow.
20. Suchov, Suchovské louky (7171b1), 48°53'11"N 17°36'04"E, 460 m a.s.l.; mesic *Arrhenatherum* meadow.
21. Kněždub, Čertoryje NNR (7171b3), 48°51'31"N 17°25'50"E, 360 m a.s.l.; willow-alder carr, wet *Cirsium* meadow, mesic *Arrhenatherum* meadow.
22. Nová Lhota, Vápenky (22), 48°52'16"N 17°36'58"E, 435 m a.s.l.; alder carr.
23. Javorník, Machová NR (7171c1), 48°49'21"N 17°31'19"E, 440 m a.s.l.; oak-hornbeam forest fringe, mesic *Arrhenatherum* meadow.
24. Javorník, Machová NR (7171c1), 48°49'59"N 17°32'05"E, 400 m a.s.l.; willow-alder carr.
25. Javorník, Machová NR (7171c1), 48°49'40"N 17°32'31"E, 437 m a.s.l.; willow-alder carr, wet *Cirsium* meadow, mesic *Arrhenatherum* meadow.
26. Javorník, Machová NR (7171c1), 48°49'37"N 17°31'41"E, 460 m a.s.l.; mesic *Arrhenatherum* meadow, tall mesic scrub.
27. Radějov, Radějovská obora – Mandát brook (7171c1), 48°49'43"N 17°22'47"E, 350 m a.s.l.; alder carr.

28. Radějov, Kútky NR (7171c2), 48°50'05"N 17°23'05"E, 415 m a.s.l.; meadow spring area.
29. Nová Lhota, Vápenky – Hubertova chata hut (7171b4), 48°51'50"N 17°39'08"E, 597 m a.s.l.; montane beech forest, forest spring area.
30. Javorník, Filipovské údolí valley (7171c2), 48°50'24"N 17°34'22"E, 420 m a.s.l.; forest valley, beech forest, fringe of montane brook with *Petasites*.
31. Strání, Záhumenice NM (7172a1), 48°53'48"N 17°41'12"E, 460 m a.s.l.; mesic *Arrhenatherum* meadow, tall mesic scrub.
32. Strání, Javorina NNR (7172a3), 48°51'23"N 17°40'09"E, 935 m a.s.l.; montane *Nardus* grassland, beech forest fringe.
33. Strání, Svinárský potok brook (7172a3), 48°52'20"N 17°40'49"E, 602 m a.s.l.; montane beech forest, montane brook.

Annotated list of species

All the material examined for each species is listed; individual records are ordered according to the number of the collecting site. Each record is arranged as follows: name of the collecting site and its number (in parentheses), date(s) of collection(s), number of specimens, collecting method, and collector(s).

Family ARGIDAE

Aprosthema bifurca (Klug, 1834)

Material examined. Javorník, Machová NR (23), 2.viii.2007, 2 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaeartic. **Host plants:** *Lathyrus* spp.

Aprosthema fusicorne (Thomson, 1871)

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Petrůvka, U Petrůvky NM (1), 3.vi.2008, 1 ex. Poteč, Ploščiny NR (2), 16.vi.2006, 1 ex. Javorník, Machová NR (23), 18.v.2007, 2 ex.; 2.viii.2007, 5 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed, confined to species-rich meadows. **General distribution:** Western Palaeartic. **Host plant:** *Vicia cracca*.

Comments. The species is probably widely distributed throughout southern parts of Europe and has recently expanded northwards into the Great Britain and Sweden. In central Europe, it is known from Austria, Hungary, Germany, and Poland (TAEGER *et al.* 2006). PÁDR (1993) recorded *A. fusicorne* from Bohemia. This is the first record for Moravia.

Aprosthema melanurum (Klug, 1814)

Material examined. Valašské Klobouky, Bílé potoky NR (3), 19.viii.2006, 1 ex., MT, M. Omelková lgt. Žitková, Hutě NR (10), 9.v.2007, 1 ex., MT, J. Macek lgt. Radějov, Žerotín NM (13), 26.viii.2008, 2 ex., MT,

J. Macek lgt. Javorník, Jazevčí NNR (17), 12.v.2009, 3 ex., MT, J. Macek lgt. Javorník, Machová NR (23), 28.v.2007, 2 ex., MT, J. Macek lgt. Strání, Záhumenice NM (31), 12.viii.2010, 1 ex., J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in species-rich meadows. **General distribution:** Palaearctic. **Host plants:** *Lathyrus pratensis*, *L. tuberosus*.

***Aprosthemata tardum* (Klug, 1814)**

Material examined. Javorník, Machová NR (23), 28.v.2007, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plant:** *Lathyrus vernus*.

***Arge ciliaris* (Linnaeus, 1767)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23); Radějov, Kútky NR (28).

Additional material examined. Poteč, Ploščiny NR (2), 31.vii.2006, 1 ex.; 23.viii.2006, 2 ex. Valašské Klobouky, Bílé potoky NR (3), 13.vii.2006, 1 ex. Žitková, Hutě NR (10), 31.vii.2007, 1 ex. Velká nad Veličkou, Zahrady pod Hájem NNR (14), 24.viii.2009, 1 ex. Javorník, Jazevčí NNR (17), 12.v.2009, 3 ex.; 25.vi.2009, 2 ex.; 15.vii.2009, 1 ex. Strání, Záhumenice NM (31), 5.v.–16.vi.2010, 2 ex., MT; 9.ix.2010, 1 ex. All J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in meadows and other grasslands. **General distribution:** Palaearctic. **Host plants:** *Filipendula* spp.

***Arge cyanocrocea* (Förster, 1771)**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Petrůvka, Kladenka brook (5), 23.vi.2008, 1 ex. Javorník, Machová NR (26), 13.vii.2010, 1 ex. Both MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in meadows and other grasslands. **General distribution:** West Palaearctic. **Host plants:** *Rubus* spp., *Sanguisorba* spp.

***Arge enodis* (Linnaeus, 1767)**

Material examined. Nová Lhota, Vápenky (22), 3.vi.2009, 1 ex. Javorník, Machová NR (23), 28.v.2007, 1 ex.; 2.viii.2007, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Salix* spp.

***Arge fuscipennis* (Herrich-Schäffer, 1835)**

Material examined. Javorník, Machová NR (26), 24.v.2010, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plants:** *Geranium* spp.

***Arge gracilicornis* (Klug, 1814)**

Material examined. Petrůvka, Kladenka brook (5), 23.vi.2008, 2 ex. Nová Lhota, Hryzlácké Mlýny (19), 3.vi.2009, 1 ex. Nová Lhota, Vápenky (22), 3.vi.2009, 1 ex., 5.viii.2009, 3 ex. Strání, Záhumenice NM (31), 16.vi.2010, 1 ex. Strání, Svinárský potok brook (33), 29.vi.2005, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in forests with *Rubus* scrub. **General distribution:** Palaearctic. **Host plants:** *Rubus* spp.

***Arge melanochra* (Gmelin, 1790)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 23.vi.1008, 1 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 19.vii.2006, 1 ex., MT, J. Macek lgt. Lopeník, Hrubý Mechnáč (9), 22.vii.2007, 2 ex., MT, M. Omelková lgt. Javorník, Jazevčí NNR (17), 23.vi.2009, 1 ex., 5.viii.2009, 2 ex., all MT, J. Macek lgt. Nová Lhota, Hryzlácké Mlýny (19), 22.vi.2009, 1 ex., 15.vii.2009, 1 ex., 5.viii.2009, 1 ex., all MT, J. Macek lgt. Nová Lhota, Vápenky (22), 22.vi.2009, 1 ex., 5.viii.2009, 1 ex., all MT, J. Macek lgt. Strání, Záhumenice NM (31), 9.vii.–9.ix.2010, 2 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in meadows and other grasslands with scattered shrubs. **General distribution:** Western Palaearctic. **Host plants:** *Crataegus* spp.

***Arge nigripes* (Retzius, 1783)**

Published record. MACEK (2009): Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 16.viii.2008, 1 ex. Strání, Záhumenice NM (31), 16.vi.2010, 1 ex. Both MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plants:** *Fragaria* spp., *Rosa* spp.

***Arge ochropus* (Gmelin, 1790)**

Published record. MACEK (2009): Javorník, Machová NR (23).

Additional material examined. Nová Lhota, Vápenky (22), 22.ix.2005, 1 larva on *Rosa* sp., J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plants:** *Rosa* spp.

***Arge pagana* (Panzer, 1798)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Poteč, Ploščiny NR (2), 31.vii.2006, 1 ex. Valašské Klobouky, Bílé potoky NR (3), 31.vii.2006, 1 ex.; 23.viii.2006, 1 ex. Žitková, Hutě NR (10), 11.vii.2007, 1 ex., 31.vii.2007, 1 ex. Javorník, Jazevčí NNR (17), 2.vi.2009, 1 ex. Nová Lhota, Hryzácké Mlýny (19), 6.viii.2009, 1 ex. Strání, Záhumenice NM (31), 25.v.–9.vii.2010, 3 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in meadows and other grasslands with scattered shrubs, gardens, and tall mesic scrub. **General distribution:** Palaearctic, Oriental. **Host plants:** *Rosa* spp.

Arge rustica (Linnaeus, 1758)

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plants:** *Quercus* spp.

Arge ustulata (Linnaeus, 1758)

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, Kladenka brook (5), 3.vi.2008, 1 ex. Javorník, Jazevčí NNR (18), 12.v.2009, 3 ex. Nová Lhota, Hryzácké Mlýny (19), 15.vii.2009, 2 ex. Nová Lhota, Vápenky (22), 3.vi.2009, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in deciduous and mixed forests and riverine willow carrs. **General distribution:** Palaearctic. **Host plants:** *Betula* spp., *Salix* spp.

Sterictiphora geminata (Gmelin, 1790)

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23); Radějov, Kútky NR (28).

Additional material examined. Žitková, Hutě NR (10), 5.vii.2007, 2 ex. Velká nad Veličkou, Zahrady pod Hájem NNR (14), 12.v.2009, 1 ex. Javorník, Jazevčí NNR (17), 12.v.2009, 1 ex. Nová Lhota, Vápenky (22), 12.v.2009, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in meadows with scattered shrubs and tall mesic scrub. **General distribution:** Palaearctic. **Host plants:** *Rosa* spp.

Sterictiphora longicornis Chevin, 1982

Published records. MACEK (2008a): Poteč, Ploščiny NR (2); Žitková, Hutě NR (10); Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23). MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Petrůvka, U Petrůvky NM (1), 21.iv.2008, 2 ex. Javorník, Jazevčí NNR (17), 12.v.2009, 1 ex. Javorník, Machová NR (25), 6.vi.2010, 2 larvae on *Carpinus betulus*. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Very local in oak-hornbeam forests. **General distribution:** Western Palaearctic. **Host plant:** *Carpinus betulus* (new record).

Comments. The larvae were collected and reared on *Carpinus betulus*. This is the first record both of larva and a food plant relating to this species.

Family CEPHIDAE

Calameuta filiformis (Eversmann, 1847)

Material examined. Kněždub, Čertoryje NNR (21), 13.v.2008, 1 ex., swept. Strání, Javorina NNR (32), 16.vi.2009, 1 ex. All MT J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** Various Poaceae.

Cephus pygmaeus (Linnaeus, 1767)

Material examined. Radějov, Žerotín NM (13), 12.v.2008, 4 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** Various Poaceae including crops.

Cephus spinipes (Panzer, 1800)

Published record. MACEK (2009): Javorník, Machová NR (23).

Additional material examined. Žitková, Hutě NR (10), 25.vi.2006, 2 ex. Radějov, Žerotín NM (13), 26.vi.2008, 2 ex. Kněždub, Čertoryje NNR (21), 25.v.2010, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in mesic meadows. **General distribution:** Palaearctic. **Host plant:** Various Poaceae.

Janus luteipes (Lepeletier, 1823)

(VU)

Published record. MACEK (2009): Javorník, Machová NR (23).

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Salix* spp., *Populus* spp.; larvae mining in annual shoots.

Family CIMBICIDAE

Abia aenea (Klug, 1820)

(VU)

Material examined. Valašské Klobouky, Bílé potoky NR (3), 5.vi.2006, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Lonicera* spp., *Symphoricarpos* spp.

Sawflies (Hymenoptera: Symphyta)

Family DIPRIONIDAE

Gilpinia abieticola (Dalla Torre, 1894)

Material examined. Poteč, Ploščiny NR (2), 22.vi.2006, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Picea* spp.

Gilpinia polytoma (Hartig, 1834)

Material examined. Poteč, Ploščiny NR (2), 23.vii.2006, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Picea* spp.

Family MEGALODONTESIDAE

Megalodontes panzeri (Leach, 1817) (EN)

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Distribution and frequency in the Bílé Karpaty PLA: A thermophilous species confined to mesic species-rich meadows in the southern part of the area. **General distribution:** Western Palaearctic. **Host plant:** *Peucedanum cervaria*.

Family ORUSSIDAE

Orussus unicolor Latreille, 1812

Material examined. Nová Lhota, Hryzlácké Mlýny (19), 15.vii.2009, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Hosts:** Unknown.

Comments. This rare species is only known from scattered findings in central and southern Europe; from the Czech Republic, only a single record from southern Moravia has been reported so far (PÁDR 1990). The hosts might be wood-boring larvae of Cerambycidae and Buprestidae.

Family PAMPILIIDAE

Cephalcia arvensis Panzer, 1805

Material examined. Poteč, Ploščiny NR (2), 31.vii.2006, 8 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 3.vi.2007, 3 ex.; 12.viii.2007, 1 ex.; MT, M. Omelková lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in spruce stands throughout the area. **General distribution:** Palaearctic. **Host plant:** *Picea abies*.

***Neurotoma mandibularis* (Zaddach, 1866) (VU)**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plants:** *Quercus* spp.

***Pamphilius gyllenhalii* (Dahlbom, 1835)**

Published record. MACEK (2009): Javorník, Machová NR (23).

Additional material examined. Poteč, Ploščiny NR (2), 6.vi.2006, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plant:** *Salix caprea*.

***Pamphilius hortorum* (Klug, 1808)**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plant:** *Rubus idaeus*.

***Pamphilius sylvaticus* (Linnaeus, 1758)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Poteč, Ploščiny NR (2), 6.vi.2006, 1 ex. Žitková, Hutě NR (10), 5.ix.2007, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** Various Rosaceae *sensu lato* (e.g. *Fragaria* spp., *Crataegus* spp., *Prunus* spp., *Sorbus* spp.).

Family TENTHREDINIDAE

Subfamily Allantinae

***Allantus basalis* (Klug, 1818) (VU)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 23.vi.2008; 2 ex. Javorník, Jazevčí NNR (17, 18), 23.vi.2009, 6 ex. Nová Lhota, Vápenky (22), 22.vi.2009, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in meadows and other grasslands with scattered shrubs. **General distribution:** Palaearctic. **Host plants:** *Rosa* spp.

***Allantus calceatus* (Klug, 1818)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 15.vii.2009, 2 ex.; 24.viii.2009, 1 ex. Javorník, Jazevčí NNR (17, 18), 2.vi.2009, 5 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in marshes and humid and mesic meadows. **General distribution:** Palaearctic. **Host plants:** *Filipendula* spp., *Potentilla palustris*.

Allantus cinctus (Linnaeus, 1758)

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 12.v.–4.viii.2008, 12 ex. Petrůvka, Kladenka brook (5), 16.vii.–4.viii.2008, 4 ex. Žitková, Hutě NR (10), 9.v.2007, 1 ex. Radějov, Žerotín NM (13), 12.v.–26.viii.2008, 9 ex. Javorník, Jazevčí NNR (17, 18), 2.vi.–24.viii.2009, 8 ex. Nová Lhota, Hryzlácké Mlýny (19), 12.v.–16.ix. 2009, 28 ex. Nová Lhota, Vápenky (22), 12.v.2009, 2 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in meadows with scattered shrubs and in tall mesic scrub. **General distribution:** Palaearctic. **Host plants:** *Rosa* spp., *Fragaria* spp.

Allantus cingulatus (Scopoli, 1763)

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Petrůvka, U Petrůvky NM (1), 3.vi.2008, 1 ex. Žitková, Hutě NR (10), 25.vi.2006, 1 ex. Javorník, Jazevčí NNR (17, 18), 9.iv.–2.vi.2006, 6 ex. Nová Lhota, Hryzlácké Mlýny (19), 3.vi.2009, 1 ex. Javorník, Machová NR (25), 15.vi.2010, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Local in meadows with scattered shrubs and in tall mesic scrub. **General distribution:** Palaearctic. **Host plants:** *Rosa* spp.

Allantus laticinctus (Serville, 1823)

(VU)

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 3.vi.2008, 1 ex. Radějov, Žerotín NM (13), 9.v.–26.viii.2008, 12 ex. Javorník, Jazevčí NNR (17), 10.iv.–2.vi.2009, 6 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: More abundant in the southern part of the area, in meadows with scattered shrubs and in tall mesic scrub. **General distribution:** Palaearctic. **Host plants:** *Rosa* spp.

Allantus rufocinctus (Retzius, 1793)

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 3.vi.–4.viii.2008, 4 ex. Poteč, Ploščiny NR (2), 6.vi.–31.vii.2006, 5 ex. Valašské Klobouky, Bílé potoky NR (3), 9.v.–5.vi.2006, 4 ex. Petrůvka, Kladenka brook (5), 3.vi.–26.viii.2008, 8 ex. Žitková, Hutě NR (10), 29.v.–31.vii.2007, 6 ex. Javorník, Jazevčí NNR (17), 10.iv.–24.viii.2009, 16 ex. Nová Lhota, Hryzlácké Mlýny (19), 22.vi.2009, 2 ex. Strání, Záhumenice NM (31), 5.v.–16.vi.2010, 4 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in mesic grasslands including meadows with scattered shrubs and in mixed forests. **General distribution:** Western Palearctic. **Host plants:** *Rosa* spp.

***Allantus togatus* (Panzer, 1801)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Strání, Javorina NNR (32), 23.vi.2009, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palearctic. **Host plants:** Various deciduous trees (*Quercus* spp., *Salix* spp., *Betula* spp.).

***Allantus truncatus* (Klug, 1818)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 12.v.–25.viii.2008, 4 ex., MT, J. Macek lgt. Poteč, Ploščiny NR (2), 22.vi.2006, 1 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 23.viii.2006, 1 ex., MT, J. Macek lgt. Žitková, Hutě NR (10), 25.vi.2006, 3 ex., MT, M. Omělková lgt., 29.v.2007, 1 ex., MT, J. Macek lgt. Javorník, Jazevčí NNR (17), 9.iv.–24.viii.2009, MT, J. Macek lgt. Nová Lhota, Hryzlácké Mlýny (19), 12.v.2009, 1 ex., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 12.v.2009, 1 ex., MT, J. Macek lgt. Strání, Záhumenice NM (31), 16.vi.2010, 1 ex., MT, 9.ix.2010, 3 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in mesic meadows. **General distribution:** Palearctic. **Host plant:** *Sanguisorba officinalis*.

***Allantus viennensis* (Schrank, 1781)**

Material examined. Žitková, Hutě NR (10), 29.v.2007, 2 ex., MT. Sidonie, Sidonie NR (7), 5.ix.2010, 8 larvae on *Rosa* sp. All J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palearctic. **Host plants:** *Rosa* spp.

***Ametastegia albipes* (Thomson, 1871)**

Published record. MACEK (2008a): Valašské Klobouky, Bílé potoky NR (3).

Additional material examined. Poteč, Ploščiny NR (2), 23.vii.2006, 1 ex. Javorník, Jazevčí NNR (18), 2.vi.2009, 2 ex. Nová Lhota, Hryzlácké Mlýny (19), 15.vii.2009, 1 ex. Strání, Záhumenice NM (31), 9.vii.2010, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Local and rare on herbaceous fringes of brooks and springs, in humid and mesic meadows, and alder-willow carrs. **General distribution:** Palearctic. **Host plant:** Unknown.

Comments. MACEK (2008a) recorded the species for the first time for Moravia from Valašské Klobouky, Bílé potoky NR.

***Ametastegia carpini* (Hartig, 1837)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 3.vi.2008, 1 ex.; 25.vii.2008, 2 ex.; 23.ix.2008, 1 ex. Poteč, Ploščiny NR (2), 22.vi.2006, 2 ex. Valašské Klobouky, Bílé potoky NR (3), 19.vii.2006, 1 ex.; 23.ix.2006, 3 ex.; 17.vi.2007, 4 ex.; 12.viii.2007, 2 ex.; all MT, M. Omelková lgt. Petrůvka, Kladenka brook (5), 3.vi.2008, 2 ex. Radějov, Žerotín NM (13), 15.vii.2008, 3 ex.; 23.viii.2008, 1 ex. Javorník, Jazevčí NNR (17, 18), 10.iv.–24.viii.2009, 35 ex. Nová Lhota, Hryzlácké Mlýny (19), 6.viii.2009, 5 ex. Strání, Svinárský potok brook (33), 29.vi.2005, 1 ex.; 29.viii.2005, 3 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in mesic meadows. **General distribution:** Palaearctic. **Host plant:** *Geranium* spp.

***Ametastegia equiseti* (Fallén, 1808)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Valašské Klobouky, Bílé potoky NR (3), 19.vii.2006, 3 ex.; 3.vi.2007, 1 ex. Radějov, Žerotín NM (13), 15.vii.2008, 1 ex. Javorník, Jazevčí NNR (18), 9.iv.–15.vii.2009, 18 ex. Nová Lhota, Vápenky (22), 3.vi.2009, 3 ex. Nová Lhota, Vápenky – Hubertova chata hut (29), 7.vi.2005, 3 ex. Strání, Javorina NNR (32), 23.vi.2009, 1 ex. Strání, Svinárský potok brook (33), 7.vi.2005, 2 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in mesic meadows and deciduous forests. **General distribution:** Holarctic. **Host plants:** Various herbs (e.g. *Rumex* spp., *Polygonum* spp.).

***Ametastegia glabrata* (Fallén, 1808)**

Material examined. Petrůvka, U Petrůvky NM (1), 23.ix.2008, 1 ex., MT, J. Macek lgt. Svätý Štěpán, Vlárský průsmyk, 9.vi.2005, 1 ex., swept, P. Chvojka lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Holarctic. **Host plants:** *Rumex* spp.

***Ametastegia pallipes* (Spinola, 1808)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Petrůvka, U Petrůvky NM (1), 4.viii.2008, 1 ex. Petrůvka, Kladenka brook (5), 3.vi.2008, 1 ex. Vyškovec (12), 30.ix.2007, 1 ex. Radějov, Žerotín NM (13), 26.vi.2008, 1 ex. Nová Lhota, Hryzlácké Mlýny (19), 12.v.2009, 1 ex. Nová Lhota, Vápenky (22), 12.v.2009, 2 ex. Javorník, Machová NR (25), 10.viii.–7.ix.2010, 3 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in mesic meadows. **General distribution:** Holarctic. **Host plants:** *Viola* spp.

***Ametastegia perla* (Klug, 1808)**

(EN)

Published records. MACEK (2009): Javorník, Machová NR (23).

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Salix* spp.

***Ametastegia tenera* (Fallén, 1808)**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 12.v.–23.ix.2008, 12 ex., MT, J. Macek lgt. Lopeník, Hrubý Mechnáč (9), 19.vii.2006, 2 ex.; 22.vii.2007, 1 ex., all MT, M. Omelková lgt. Žitková, Hutě NR (10), 29.v.–21.viii.2007, 23 ex., MT, J. Macek lgt. Výskovec, Chmelinec NM (11), 29.iv.2007, 3 ex.; 17.vi.2007, 1 ex., all MT, M. Omelková lgt. Javorník, Jazevčí NNR (18), 9.iv.–14.ix.2009, 16 ex. Strání, Záhumenice NM (31), 12.viii.2010, 1 ex. Strání, Javorina NNR (32), 15.vii.2009, 1 ex.; 17.ix.2009, 1 ex. Strání, Svinárský potok brook (33), 7.vi.2005, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in mesic meadows. **General distribution:** Holarctic. **Host plants:** *Rumex* spp.

***Apethymus apicalis* (Klug, 1818)**

Material examined. Žitková, Hutě NR (10), 3.x.2007, 1 ex.; 31.x.2007, 1 ex.; both MT, J. Macek lgt. Výskovec (12), 22.x.2007, 1 ex., MT, M. Omelková lgt. Kněždub, Čertoryje NNR (16), 23.x.2006, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in mixed and deciduous forests with oak stands. **General distribution:** Western Palaearctic. **Host plants:** *Rosa* spp.

***Apethymus cereus* (Klug, 1818)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Javorník, Jazevčí NNR (17), 22.x.2009, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plants:** *Quercus* spp.

***Apethymus filiformis* (Klug, 1818)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Quercus* spp.

***Apethymus serotinus* (Müller, 1776)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Javorník, Jazevčí NNR (17), 24.viii.–22.x.2009, 3 ex. Nová Lhota, Hryzlácké Mlýny (19), 16.ix.2009, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: A thermophilous species confined to mixed and deciduous forests with oak stands in the southern part of the area. **General distribution:** Western Palaearctic. **Host plants:** *Quercus* spp.

***Athalia bicolor* Serville, 1823**

Published record. MACEK (2009): Javorník, Machová NR (23).

Additional material examined. Žitková, Hutě NR (10), 9.v.–9.vi.2007, 8 ex. Radějov, Žerotín NM (13), 4.vi.2008, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plant:** Unknown.

***Athalia circularis* (Klug, 1815)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Radějov, Kútky NR (28); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 3.vi.–23.ix.2008, 12 ex., MT, J. Macek lgt. Poteč, Ploščíny NR (2), 22.vi.–23.viii.2006, 18 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 13.vii.–23.viii.2006, 12 ex., MT, J. Macek lgt.; 19.vii.2006, 5 ex.; 12.viii.–12.ix.2007, 23 ex., MT, both M. Omelková lgt. Petrůvka, Kladenska brook (5), 3.vi.–24.viii.2008, 25 ex., MT, J. Macek lgt. Sidonie, Sidonie NR (7), 16.vi.2010, 2 ex.; 10.viii.2010, 1 ex., all MT, J. Macek lgt. Svatý Štěpán, Chladný vrch NM (8), 16.vi.2010, 1 ex., MT, J. Macek lgt. Lopeník, Hrubý Mechnáč (9), 3.vii.–23.viii.2006, 10 ex.; 22.vii.–12.viii.2007, 6 ex.; all MT, M. Omelková lgt. Žitková, Hutě NR (10), 25.vi.–23.viii.2006, 21 ex., MT, M. Omelková lgt.; 5.v.–2.ix.2007, 46 ex., MT, J. Macek lgt. Vyškovec, Chmelinec NM (11), 17.vi.2007, MT, M. Omelková lgt. Vyškovec (12), 12.viii.2007, 2 ex.; 15.vii.2008, 3 ex., all MT, M. Omelková lgt. Radějov, Žerotín NM (13), 15.vii.2008, 3 ex., MT, J. Macek lgt. Javorník, Jazevčí NNR (17, 18), 12.v.–24.viii.2009, 58 ex., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 4.vi.–24.viii.2009, 21 ex., MT, J. Macek lgt. Radějov, Radějovská obora – Mandát brook (27), 5.–26.viii.2008, 4 ex., MT, J. Macek lgt. Nová Lhota, Vápenky – Hubertova chata hut (29), 5.viii.2005, 2 ex., MT, J. Macek lgt. Strání, Javorina NNR (32), 15.vii.2009, 3 ex., MT, J. Macek lgt. Strání, Svinárský potok brook (33), 7.vi.2005, 3 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: An ubiquitous species widely distributed throughout the area. **General distribution:** Palaearctic. **Host plants:** Various herbs.

***Athalia cordata* Serville, 1823**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23); Radějov, Kútky NR (28).

Additional material examined. Petrůvka, U Petrůvky NM (1), 23.vi.–23.ix.2008, 18 ex., MT, J. Macek lgt. Poteč, Ploščíny NR (2), 6.vi.–31.vii.2006, 6 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 19.vii.2006, 2 ex., MT, M. Omelková lgt. Lopeník, Hrubý Mechnáč (9), 3.vii.–23.viii.2006, 6 ex.; 12.ix.2007, 2 ex., all MT, M. Omelková lgt. Žitková, Hutě NR (10), 25.vi.2006, 2 ex., MT, M. Omelková lgt.; 31.vii.–21.viii.2007, 5 ex., MT, J. Macek lgt. Vyškovec, Chmelinec NM (11), 15.v.–22.vii.2007, 5 ex., MT, M. Omelková lgt. Vyškovec (12), 22.vii.2007, 1 ex., MT, M. Omelková lgt. Radějov, Žerotín NM (13), 22.vi.–24.ix.2008, 12 ex., MT, J. Macek lgt. Velká nad Veličkou, Zahrady pod Hájem NNR (14), 12.v.2009, MT, J. Macek lgt. Javorník, Jazevčí NNR (17), 10.iv.–22.x.2009, 38 ex., MT, J. Macek lgt. Nová Lhota, Hryzlácké Mlýny (19), 10.iv.–22.x.2009, 28 ex., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 10.iv.–16.ix.2009, 19 ex., MT, J. Macek lgt. Radějov, Radějovská obora – Mandát brook (27), 4.vi.–5.viii.2008, 3 ex., MT, J. Macek lgt. Strání, Záhumenice NM (31), 12.viii.2010, 2 ex., MT, J. Macek lgt. Strání, Javorina NNR (32), 10.iv.–17.ix.2009, 12 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in mesic meadows, deciduous and mixed forests. **General distribution:** Western Palaearctic. **Host plants:** Various herbs.

***Athalia liberta* (Klug, 1815)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 23.ix.2008, 2 ex., MT, J. Macek lgt. Poteč, Ploščiny NR (2), 22.vi.–31.vii.2006, 9 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 19.vii.–23.viii.2006, 8 ex.; 22.vii.2007, 3 ex.; 12.ix.2007, 1 ex.; 18.vii.2007, 3 ex.; all MT, M. Omelková lgt.; 23.vi.–31.vii.2007, 8 ex., MT, J. Macek lgt. Petrůvka, Kladenka brook (5), 3.vi.–26.viii.2008, 26 ex., MT, J. Macek lgt. Sidonie, Sidonie NR (7), 16.vi.2010, 1 ex.; 10.viii.2010, 1 ex., all MT, J. Macek lgt. Lopeník, Hrubý Mechnáč (9), 5.vi.2006, 2 ex.; 17.vi.2007, all MT, M. Omelková lgt. Žitková, Hutě NR (10), 11.–31.vii.2007, 3 ex., MT, J. Macek lgt. Vyškovec (12), 22.vii.–12.viii.2007, 2 ex., MT, M. Omelková lgt. Javorník, Jazevčí NNR (17), 12.v.–14.ix.2009, 17 ex., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 12.v.–24.viii.2009, 11 ex., MT, J. Macek lgt. Nová Lhota, Vápenky – Hubertova chata hut (29), 7.vi.–25.vii.2005, 6 ex., MT, J. Macek lgt. Strání, Záhumenice NM (31), 16.vi.2010, 1 ex.; 12.viii.2010, 1 ex., all MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in mesic meadows, deciduous and mixed forests. **General distribution:** Palaearctic. **Host plants:** Various Brassicaceae.

***Athalia lugens* (Klug, 1815)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23); Radějov, Kútky NR (28).

Additional material examined. Poteč, Ploščiny NR (2), 23.vii.2006, 1 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 23.ix.2006, 1 ex., MT, M. Omelková lgt. Petrůvka, Kladenka brook (5), 3.vi.–4.viii.2008, 4 ex., MT, J. Macek lgt. Vyškovec, Chmelinec NM (11), 17.vi.2007, 1 ex., MT, M. Omelková lgt. Javorník, Jazevčí NNR (18), 26.vi.2009, 1 ex., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 22.vi.2009, 2 ex., MT, J. Macek lgt. Radějov, Radějovská obora – Mandát brook (27), 26.vi.–5.viii.2008, 6 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in humid habitats. **General distribution:** Palaearctic. **Host plant:** *Cardamine hirsuta*.

***Athalia rosae* (Linnaeus, 1758)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23); Radějov, Kútky NR (28).

Additional material examined. Petrůvka, U Petrůvky NM (1), 16.vii.–23.ix.2008, 7 ex., MT, J. Macek lgt. Poteč, Ploščiny NR (2), 23.vii.2006, 1 ex.; 20.ix.2006, 1 ex.; all MT, J. Macek lgt. Petrůvka, Kladenka brook (5), 4.viii.2008, 1 ex., MT, J. Macek lgt. Lopeník, Hrubý Mechnáč (9), 22.vii.2007, 2 ex.; 22.x.2007, 1 ex.; all MT, M. Omelková lgt. Žitková, Hutě NR (10), 29.v.2007, 2 ex.; 19.vi.2007, 5 ex.; 2.ix.2007, 5 ex.; all MT, J. Macek lgt. Vyškovec, Chmelinec NM (11), 17.vi.2007, 1 ex., MT, M. Omelková lgt. Radějov, Žerotín NM (13), 4.vi.–24.ix.2008, 12 ex., MT, J. Macek lgt. Javorník, Jazevčí NNR (17, 18), 12.v.2009, 3 ex., MT, J. Macek lgt. Radějov, Radějovská obora – Mandát brook (27), 5.viii.2008, 1 ex., MT, J. Macek lgt. Strání, Javorina NNR (32), 15.vii.2009, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in mesic and humid habitats. **General distribution:** Palaearctic, Oriental. **Host plants:** Various Brassicaceae including cultivars.

***Empria candidata* (Fallén, 1808)**

Material examined. Poteč, Ploščiny NR (2), 11.v.2006, 2 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Holarctic. **Host plants:** *Betula* spp.

***Empria excisa* (Thomson, 1871)**

(VU)

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 3.vi.2008, 1 ex. Valašské Klobouky, Bílé potoky NR (3), 11.v.2006, 1 ex. Žitková, Hutě NR (10), 9.v.2007, 1 ex. Javorník, Jazevčí NNR (17, 18), 9.iv.–2.vi.2009, 12 ex. Nová Lhota, Vápenky (22), 10.iv.–12.v.2009, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in mesic meadows. **General distribution:** Western Palaearctic. **Host plants:** *Filipendula* spp.

***Empria hungarica* (Konow, 1875)**

(EN)

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Radějov, Kútky NR (28).

Distribution and frequency in the Bílé Karpaty PLA: A very local and rare species confined to mesic, species-rich meadows in the southern part of the area. **General distribution:** Palaearctic. **Host plants:** *Filipendula* spp.

***Empria immersa* (Klug, 1818)**

Material examined. Javorník, Machová NR (24), 9.v.2007, MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plant:** *Salix caprea*.

***Empria liturata* (Gmelin, 1790)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23); Radějov, Kútky NR (28).

Additional material examined. Petrůvka, U Petrůvky NM (1), 12.v.–3.vi.2008, 5 ex., MT, J. Macek lgt. Poteč, Ploščiny NR (2), 6.vi.2006, 1 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 5.vi.2006, 2 ex., MT, J. Macek lgt. Petrůvka, Kladenka brook (5), 12.v.2008, 1 ex., MT, J. Macek lgt. Lopeník, Hrubý Mechnáč (9), 23.v.2006, 1 ex., MT, M. Omelková lgt. Žitková, Hutě NR (10), 9.v.2007, 1 ex., MT, J. Macek lgt. Vyškovec, Chmelinec NM (11), 29.iv.2007, 1 ex., 17.vi.2007, 3 ex., all MT, M. Omelková lgt. Javorník, Jazevčí NNR (18), 9.iv.–2.vi.2009, 9 ex., MT, J. Macek lgt. Radějov, Radějovská obora – Mandát brook (27), 13.v.2008, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in mesic meadows. **General distribution:** Palaearctic. **Host plants:** *Geum* spp., *Rubus* spp., *Fragaria* spp.

***Empria longicornis* (Thomson, 1871)**

Material examined. Petrůvka, Kladenska brook (5), 21.iv.2008, 1 ex. Strání, Svinárský potok brook (33), 20.iv.–7.vi.2005, 3 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Filipendula* spp., *Rubus* spp.

***Empria pallimacula* (Serville, 1823)**

Published records. MACEK (2008): Kněždub, Čertoryje NNR (15). MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 3.vi.2008, 1 ex., MT, J. Macek lgt. Poteč, Ploščiny NR (2), 6.vi.–22.vi.2006, 5 ex., MT, J. Macek lgt. Petrůvka, Kladenska brook (5), 3.vi.2008, 1 ex., MT, J. Macek lgt. Lopeník, Hrubý Mechnáč (9), 23.v.2006, 1 ex., MT, M. Omelková lgt. Výškovce, Chmelínce NM (11), 17.vi.2007, 1 ex., MT, M. Omelková lgt. Javorník, Jazevčí NNR (18), 9.iv.–2.vi.2009, 8 ex., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 12.v.2009, 2 ex., MT, J. Macek lgt. Radějov, Radějovská obora – Mandát brook (27), 5.vi.2008, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in mesic and humid meadows. **General distribution:** Palaearctic. **Host plants:** *Filipendula* spp.

***Empria parvula* (Konow, 1892)**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Petrůvka, Kladenska brook (5), 12.v.–3.vi.2008, 3 ex. Nová Lhota, Vápenky (22), 12.v.2009, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Geum* spp., *Rubus* spp., *Alchemilla* spp.

***Empria pumila* (Konow, 1896)**

Material examined. Kněždub, Čertoryje NNR (16), 10.v.2006, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plants:** *Filipendula* spp.

***Empria pumiloides* Lindqvist, 1968**

Published record. MACEK (2008a, 2009): Kněždub, Čertoryje NNR (15).

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plants:** *Filipendula* spp.

***Empria sexpunctata* (Serville, 1823)**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Petrůvka, U Petrůvky NM (1), 12.v.–3.vi.2008, 2 ex., MT, J. Macek lgt. Poteč, Ploščiny NR (2), 6.vi.2006, 1 ex., MT, J. Macek lgt. Petrůvka, Kladenka brook (5), 12.v.–3.vi.2008, 3 ex., MT, J. Macek lgt. Lopeník, Hrubý Mechnáč (9), 23.v.2006, 1 ex., MT, M. Omelková lgt. Výškovec, Chmelínek NM (11), 29.iv.2007, 1 ex., MT, M. Omelková lgt. Javorník, Jazevčí NNR (18), 12.v.2009, 1 ex., MT, J. Macek lgt. Strání, Svinárský potok brook (33), 7.vi.2005, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in humid and mesic meadows. **General distribution:** Palaearctic. **Host plant:** *Geum rivale*.

***Empria testaceipes* (Konow, 1896)**

(EN)

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Nová Lhota, Hryzlácké Mlýny (19), 12.v.2009, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: A very local and rare species confined to mesic species-rich meadows in the southern part of the area. **General distribution:** Palaearctic. **Host plant:** *Sanguisorba officinalis*.

***Empria tridens* (Konow, 1896)**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Poteč, Ploščiny NR (2), 6.vi.2006, 4 ex. Valašské Klobouky, Bílé potoky NR (3), 5.vi.2006, 2 ex. Nová Lhota, Hryzlácké Mlýny (19), 12.v.2009, 1 ex. Nová Lhota, Vápenky – Hubertova chata hut (29), 19.v.2005, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in mixed and deciduous forests with *Rubus* scrub. **General distribution:** Western Palaearctic. **Host plants:** *Rubus* spp.

***Empria ushinskii* Dovnar-Zapolskij, 1929**

Published records. MACEK (2008a): Kněždub, Čertoryje NNR (15). MACEK (2009): Javorník, Machová NR (23).

Distribution and frequency in the Bílé Karpaty PLA: A very local and rare species confined to mesic species-rich meadows in the southern part of the area. **General distribution:** Western Palaearctic. **Host plant:** Unknown.

Comments. MACEK (2008a) recorded this species for the first time for the Czech Republic from the Čertoryje NNR.

***Eriocampa ovata* (Linnaeus, 1760)**

Material examined. Valašské Klobouky, Bílé potoky NR (3), 23.vii.2006, 1 ex., MT, M. Omelková lgt. Petrůvka, Kladenka brook (5), 16.vii.2008, 1 ex., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 15.vii.2009, 1 ex., MT, J. Macek lgt. Javorník, Machová NR (25), 7.x.2010, 1 ex., MT, J. Macek lgt. Strání, Svinárský potok brook (33), 26.vii.2005, 1 ex. MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in alder carrs of streams. **General distribution:** Western Palaearctic. **Host plants:** *Alnus* spp.

***Monostegia abdominalis* (Fabricius, 1798)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Radějov, Kútky NR (28).

Additional material examined. Petrůvka, U Petrůvky NM (1), 25.viii.2008, 1 ex., MT, J. Macek lgt. Poteč, Ploščiny NR (2), 22.vi.2006, 1 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 19.vii.–23.viii.2006, 4 ex., MT, M. Omelková lgt. Petrůvka, Kladenka brook (5), 3.vi.2008, 1 ex., MT, J. Macek lgt. Lopeník, Hrubý Mechnáč (9), 23.v.2006, 1 ex.; 25.viii.2006, 1 ex.; both MT, M. Omelková lgt. Žitková, Hutě NR (10), 19.vi.2007, 1 ex., MT, J. Macek lgt. Vyškovec, Chmelinec NM (11), 17.vi.2007, MT, M. Omelková lgt. Javorník, Jazevčí NNR (17), 12.v.–24.viii.2009, 6 ex., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 22.ix.2005, 2 ex.; 3.vi.2009, 1 ex., all MT, J. Macek lgt. Javorník, Machová NR (25), 10.viii.–7.ix.2010, 2 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in humid meadows, meadow spring fens, and marshes. **General distribution:** Palaearctic. **Host plant:** *Lysimachia vulgaris*.

***Monostegia nigra* (Konow, 1876)**

Material examined. Radějov, Žerotín NM (13), 4.vi.2008, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plant:** *Lysimachia punctata*.

Comments. The species has recently rapidly expanded into central Europe from south-eastern Europe. The first records for Moravia and Bohemia were reported by MACEK (2006 and 2008, respectively).

***Monsoma pulveratum* (Retzius, 1783)**

Material examined. Petrůvka, Kladenka brook (5), 12.v.–3.vi.2008, 3 ex., MT. Nová Lhota, Vápenky (22), 26.vii.2005, 5 larvae on *Alnus*, 10.iv.–3.vi.2009, 3 ex., MT. Javorník, Machová NR (24), 9.v.2007, 1 ex., MT. All J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in alder carrs. **General distribution:** Western Palaearctic. **Host plants:** *Alnus* spp.

***Taxonus agrorum* (Fallén, 1808)**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Petrůvka, U Petrůvky NM (1), 3.vi.2008, 1 ex., MT, J. Macek lgt. Poteč, Ploščiny NR (2), 23.vii.2006, 1 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 5.vi.–23.vi.2006, 4 ex., MT, J. Macek lgt. Petrůvka, Kladenka brook (5), 3.vi.2008, MT, J. Macek lgt. Lopeník, Hrubý Mechnáč (9), 3.vii.2006, 1 ex., MT, M. Omelková lgt. Vyškovec, Chmelinec NM (11), 17.vi.2007, 1 ex.,

Sawflies (Hymenoptera: Symphyta)

MT, M. Omelková lgt. Javorník, Jazevčí NNR (17, 18), 10.iv.–2.vi.2009, 3 ex., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 22.vi.2009, 1 ex., MT, J. Macek lgt. Javorník, Machová NR (23), 9.v.–28.v.2007, 3 ex., MT, J. Macek lgt. Nová Lhota, Vápenky – Hubertova chata hut (29), 19.v.–3.vi.2005, 2 ex., MT, J. Macek lgt. Strání, Svinárský potok brook (33), 7.vi.2005, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in forest habitats. **General distribution:** Palaearctic. **Host plant:** *Rubus idaeus*.

Taxonus sticticus (Klug, 1814)

(EN)

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 3.vi.2008, 1 ex. Poteč, Ploščiny NR (2), 22.vi.2006, 1 ex. Both MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Local and rare in tall mesic and xeric scrub. **General distribution:** Western Palaearctic. **Host plants:** *Rosa* spp.

Subfamily Blennocampinae

Ardis pallipes (Serville, 1823)

(VU)

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Žitková, Hutě NR (10), 9.v.2007, 1 ex. Javorník, Jazevčí NNR (17), 5.viii.2009, 1 ex. Both MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Holarctic. **Host plants:** *Rosa* spp.

Blennocampa phyllocolpa Viitasaari et Vikberg, 1985

Material examined. Kněždub, Čertoryje NNR (16), 9.v.–20.vi.2006, 5 ex. Javorník, Jazevčí NNR (17), 12.v.2009, 1 ex. Petrůvka, Kladenka brook (5), 3.vi.2008, 1 ex. Strání, Svinárský potok brook (33), 26.vii.2005, 1 ex. Nová Lhota, Vápenky (22), 3.vi.2009, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in scrub, along forest margins, in parks and gardens. **General distribution:** Palaearctic. **Host plants:** *Rosa* spp.

Cladardis elongatula (Klug, 1817)

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23); Radějov, Kútky NR (28).

Additional material examined. Petrůvka, U Petrůvky NM (1), 3.vi.–25.viii.2008, 5 ex., MT, J. Macek lgt. Poteč, Ploščiny NR (2), 23.vii.2006, 2 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 13.vii.–23.viii.2006, 3 ex., MT, M. Omelková lgt. Petrůvka, Kladenka brook (5), 23.vi.2008, 1 ex.; 23.viii.2008, 1 ex., MT, J. Macek lgt. Žitková, Hutě NR (10), 29.v.2007, 1 ex., MT, J. Macek lgt. Vyškovec (12), 12.viii.2007, 1 ex., M. Omelková lgt. Javorník, Jazevčí NNR (17), 12.v.2009, 1 ex., MT, J. Macek lgt. Radějov, Radějovská obora – Mandát brook (27), 5.viii.2008, 1 ex., MT, J. Macek lgt. Strání, Záhumenice NM (31), 5.v.–12.viii.2010, 8 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in scrub, along forest margins, in parks and gardens. **General distribution:** Western Palearctic. **Host plants:** *Rosa* spp.

***Cladardis hartigi* Liston, 1995**

Material examined. Javorník, Jazevčí NNR (17), 12.v.2009, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palearctic. **Host plant:** Unknown.

Comments. A very rare species, in the Czech Republic so far only known from Bohemia (BENEŠ 1989). This is the first record for Moravia.

***Claremontia alternipes* (Klug, 1816)**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Poteč, Ploščiny NR (2), 6.vi.2006, 1 ex. Valašské Klobouky, Bílé potoky NR (3), 11.v.2006. 2 ex. Javorník, Jazevčí NNR (17), 12.v.2009, 1 ex. Strání, Svinárský potok brook (33), 7.vi.2005, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in mixed and deciduous forests with *Rubus* scrub. **General distribution:** Palearctic. **Host plant:** *Rubus idaeus*.

***Claremontia puncticeps* (Konow, 1886)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Žitková, Hutě NR (10), 9.v.2007, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palearctic. **Host plants:** *Fragaria* spp., *Potentilla* spp.

***Claremontia tenuicornis* (Klug, 1816)**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Poteč, Ploščiny NR (2), 11.v.–22.vi.2006, 5 ex. Žitková, Hutě NR (10), 29.v.2007, 1 ex. Javorník, Jazevčí NNR (18), 10.iv.–2.vi.2009, 4 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in mesic meadows. **General distribution:** Palearctic. **Host plants:** *Filipendula* spp.

***Claremontia uncta* (Klug, 1816)**

Published record. MACEK (2009): Javorník, Machová NR (23).

Additional material examined. Kněždub, Čertoryje NNR (16), 29.v.2006, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plants:** *Alchemilla* spp., *Geum* spp.

***Claremontia waldheimi* (Gimmerthal, 1847)**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Petrůvka, Kladenka brook (5), 12.v.2008, 1 ex.; 11.v.–6.vi.2006, 3 ex. Javorník, Jazevčí NNR (18), 10.iv.–2.vi.2009, 4 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in mesic meadows. **General distribution:** Palaearctic. **Host plants:** *Geum* spp., *Rubus* spp.

***Eurhadinoceraea amauros* (Zombori, 1977)**

Material examined. Javorník, Machová NR (23), 28.v.2007, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Known only from a single specimen from Machová NR. **General distribution:** Western Palaearctic. **Host plant:** Unknown.

Comments. ZOMBORI (1977) described the species from Italy, later it was recorded also from Germany, Switzerland (TAEGER & BLANK 2008) and Slovakia (ROLLER 1996). This is the first record for the Czech Republic.

***Eurhadinoceraea ventralis* (Panzer, 1799)**

Published records. MACEK (2008a): Javorník, Machová NR (23). MACEK (2009): Kněždub, Čertoryje NNR (15).

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plant:** *Clematis recta*.

Comments. MACEK (2008a) recorded the species for the first time for the Czech Republic from Machová NR based on larvae collected on *Clematis recta*.

***Eutomostethus ephippium* (Panzer, 1798)**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Petrůvka, U Petrůvky NM (1), 3.vi.2008, 1 ex., MT, J. Macek lgt. Poteč, Ploštiny NR (2), 31.vii.2006, 1 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 19.vii.2006, 4 ex.; 23.viii.2006, 1 ex., all MT, M. Omelková lgt. Petrůvka, Kladenka brook (5), 4.viii.2008, 2 ex., MT, J. Macek lgt. Výškovec (12), 12.viii.2007, 1 ex., MT, M. Omelková lgt. Javorník, Jazevčí NNR (17), 2.vi.2009, 1 ex., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 12.v.2009, 2 ex., MT, J. Macek lgt. Javorník, Machová NR (23), 28.v.2007, 1 ex., MT, J. Macek lgt. Radějov, Radějovská obora – Mandát brook (27), 26.vi.2008, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in mesic meadows. **General distribution:** Holarctic, Oriental. **Host plants:** Various Poaceae.

***Eutomostethus gagathinus* (Klug, 1816)**

Material examined. Javorník, Machová NR (23), 18.vi.2007, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaeartic. **Host plants:** *Carex* spp.

***Eutomostethus luteiventris* (Klug, 1816)**

Published record. MACEK (2009): Javorník, Machová NR (23).

Additional material examined. Lopeník, Hrubý Mechnáč (9), 23.v.2006, 1 ex.; 17.vi.2007, 1 ex., all MT, M. Omelková lgt. Žitková, Hutě NR (10), 25.vi.2006, 1 ex., MT, J. Macek lgt. Svatý Štěpán, Chladný vrch NM (8), 4.vii.2010, 1 ex., J. Macek lgt. Kněždub, Čertoryje NNR (15), 26.vi.2008, 1 ex., MT, J. Macek lgt. Radějov, Radějovská obora – Mandát brook (27), 26.vi.2008, 1 ex., MT, J. Macek lgt. Nová Lhota, Vápenky – Hubertova chata hut (29), 28.vi.2005, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in humid meadows, spring fens and marshes. **General distribution:** Western Palaeartic. **Host plants:** *Juncus* spp.

***Eutomostethus punctatus* (Konow, 1887)**

Material examined. Svatý Štěpán, Chladný vrch NM (8), 16.vi.2010, 2 ex., J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaeartic. **Host plants:** *Carex* spp.

***Halidamia affinis* (Fallén, 1807)**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Petrůvka, U Petrůvky NM (1), 12.v.–23.vi.2008, 3 ex. Poteč, Ploščiny NR (2), 22.vi.–23.vii.2006, 3 ex. Válašské Klobouky, Bílé potoky NR (3), 13.vii.2006, 1 ex. Petrůvka, Kladenka brook (5), 12.v.–23.vi.2008, 4 ex. Žitková, Hutě NR (10), 19.vi.2007, 1 ex. Radějov, Žerotín NM (13), 4.vi.2008, 1 ex. Javorník, Jazevčí NNR (17), 10.iv.–25.vi.2009, 4 ex. Javorník, Machová NR (23), 9.iv.–28.v.2007, 5 ex. Strání, Javorina NNR (32), 12.v.2009, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in mesic meadows. **General distribution:** Western Palaeartic. **Host plants:** *Galium* spp.

***Monardis plana* (Klug, 1817)**

(VU)

Material examined. Kněždub, Čertoryje NNR (15), 9.v.2006, 2 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaeartic. **Host plants:** *Rosa* spp.

***Monophadnoides rubi* (Harris, 1845)**

Published record. MACEK (2009): Javorník, Machová NR (23).

Additional material examined. Javorník, Jazevčí NNR (17), 12.v.2009, 2 ex. Nová Lhota, Vápenky – Hubertova chata hut (29), 19.v.2005, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Holarctic. **Host plants:** *Rubus* spp.

***Monophadnus pallescens* (Gmelin, 1790)**

Published record. MACEK (2009): Javorník, Machová NR (23).

Additional material examined. Svatý Štěpán, Chladný vrch NM (8), 5.v.2010, 1 ex. Javorník, Jazevčí NNR (17), 9.iv.–2.vi.2009, 3 ex. Nová Lhota, Vápenky – Hubertova chata hut (29), 19.v.2005, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in mesic and humid meadows. **General distribution:** Western Palaearctic. **Host plants:** *Ranunculus* spp.

***Pareophora pruni* (Linnaeus, 1758)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plant:** *Prunus spinosa*.

***Periclista albida* (Klug, 1816)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Javorník, Jazevčí NNR (17), 9.iv.–12.v.2009, 2 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in oak formations in particular in the southern part of the area. **General distribution:** Palaearctic. **Host plants:** *Quercus* spp.

***Periclista albipennis* (Zaddach, 1859)**

Material examined. Kněždub, Čertoryje NNR (15), 15.v.2008, 8 larvae on *Quercus* sp.; 13.v.2009, 6 larvae on *Quercus* sp.; 8.v.2010, 4 larvae on *Quercus* sp.; all J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably associated with Pannonian oak-hornbeam forests and restricted to the southern part of area. **General distribution:** Western Palaearctic. **Host plants:** *Quercus* spp.

Comments. A Mediterranean species associated with xerothermophilous oak formations. In central Europe known from Slovakia, Germany and Poland (TAEGER *et al.* 2008). Recorded here for the first time for the Czech Republic.

***Periclista lineolata* (Klug, 1816)**

Published records. MACEK (2008a): Žitková, Hutě NR (10); Kněždub, Čertoryje NNR (15). MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in oak formations, in particular in the southern part of the area. **General distribution:** Western Palaearctic. **Host plants:** *Quercus* spp.

***Periclista pubescens* (Zaddach, 1859)**

Published records. MACEK (2008a): Kněždub, Čertoryje NNR (15).

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in oak formations, in particular in the southern part of the area. **General distribution:** Western Palaearctic. **Host plants:** *Quercus* spp.

***Phymatocera aterrira* (Klug, 1816)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Polygonatum* spp.

***Stethomostus fuliginosus* (Schrank, 1781)**

Material examined. Lopeník, Hrubý Mechnáč (9), 12.ix.2007, 1 ex., MT, M. Omelková lgt. Nová Lhota, Vápenky (22), 24.viii.2009, 1 ex., MT, J. Macek lgt. Javorník, Machová NR (24), 28.v.2007, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in mesic and humid meadows. **General distribution:** Palaearctic. **Host plants:** *Ranunculus* spp.

Subfamily Heterarthrinae

***Caliroa annulipes* (Klug, 1816)**

Material examined. Výškovec, Chmelinec NM (11), 17.vi.2007, 1 ex., MT, M. Omelková lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Holarctic. **Host plants:** Various deciduous trees and shrubs.

***Caliroa cerasi* (Linnaeus, 1758)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Radějov, Žerotín NM (13), 26.vi.2008, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Cosmopolitan. **Host plants:** Various deciduous trees and shrubs.

***Caliroa varipes* (Klug, 1816)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Žitková, Hutě NR (10), 29.v.2007, 1 ex. Velká nad Veličkou, Zahrady pod Hájem NNR (14), 6.viii.2009, 1 ex. Javorník, Jazevčí NNR (17), 12.v.–5.viii.2009, 3 ex. Nová Lhota, Hryzlácké Mlýny (19), 3.vi.2009, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in shrubs along forest margins, and in mixed and deciduous forests. **General distribution:** Palaearctic. **Host plants:** Various deciduous trees and shrubs.

***Endelomyia aethiops* (Gmelin, 1790)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Poteč, Ploštiny NR (2), 6.vi.2006, 1 ex. Javorník, Jazevčí NNR (17), 9.iv.–24.viii.2009, 18 ex. Nová Lhota, Hryzlácké Mlýny (19), 3.vi.2009, 2 ex. Nová Lhota, Vápenky (22), 12.v.2009, 1 ex. Radějov, Radějovská obora – Mandát brook (27), 13.v.2008, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in shrubs along forest margins and in tall mesic scrub. **General distribution:** Holarctic. **Host plants:** *Rosa* spp.

***Fenella nigrita* Westwood, 1839**

Material examined. Žitková, Hutě NR (10), 11.vii.2007, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Agrimonia* spp., *Potentilla* spp.

***Fenusa dohrnii* (Tischbein, 1846)**

Material examined. Petrůvka, U Petrůvky NM (1), 23.ix.2008, 1 ex. Nová Lhota, Vápenky – Hubertova chata hut (29), 19.v.2005, 2 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in alder carrs of streams and brooks. **General distribution:** Holarctic. **Host plants:** *Alnus* spp.

***Fenusella glaucopis* (Konow, 1907)**

Material examined. Žitková, Hutě NR (10), 9.v.2007, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plant:** *Populus tremula*.

***Fenusella nana* (Klug, 1816)**

Material examined. Valašské Klobouky, Bílé potoky NR (3), 5.vi.2006, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Betula* spp.

***Heterarthrus ochropoda* (Klug, 1818)**

Material examined. Javorník, Machová NR (25), 24.v.2010, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plant:** *Populus tremula*.

***Heterarthrus vagans* (Fallén, 1808)**

Material examined. Vyškovec, Chmelínek NM (11), 17.vi.2007, 1 ex., MT, M. Omelková lgt. Velká nad Veličkou, Zahrady pod Hájem NNR (14), 15.vii.2009, 1 ex., MT, J. Macek lgt. Kněždub, Čertoryje NNR (16), 29.v.2006, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in alder carrs along streams and brooks. **General distribution:** Palaearctic. **Host plants:** *Alnus* spp.

***Heterarthrus wuestnei* (Konow, 1905)**

Published record. MACEK (2008a): Kněždub, Čertoryje NNR (15).

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plant:** *Acer campestre*.

Comments. MACEK (2008a) recorded the species for the first time for the Czech Republic from the Čertoryje NNR.

***Hinatara nigripes* (Konow, 1907)**

Published record. MACEK (2008a): Kněždub, Čertoryje NNR (15).

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plant:** *Acer campestre*.

Comments. MACEK (2008a) recorded the species for the first time for the Czech Republic from the Čertoryje NNR.

***Hinatara recta* (Thomson, 1871)**

Material examined. Kněždub, Čertoryje NNR (15), 20.vi.2006, 2 ex. Javorník, Jazevčí NNR (17), 12.v.2009, 1 ex. Strání, Javorina NNR (32), 12.v.2009, 4 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in deciduous forests with maple stands. **General distribution:** Western Palaearctic. **Host plant:** *Acer platanoides*.

***Metallus lanceolatus* (Thomson, 1870)**

Material examined. Nová Lhota, Hryzlácké Mlýny (19), 24.viii.2009, 1 ex. Strání, Záhumenice NM (31), 16.vi.2010, 1 ex. Both MT, J.Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Holarctic. **Host plant:** *Geum urbanum*.

***Metallus pumilus* (Klug, 1816)**

Published records. MACEK (2009): Javorník, Machová NR (23).

Additional material examined. Javorník, Jazevčí NNR (17), 25.vi.2009, 1 ex. Nová Lhota, Vápenky (22), 24.viii.2009, 2 ex. Strání, Záhumenice NM (31), 16.vi.–9.ix.2010, 5 ex. Strání, Javorina NNR (32), 23.vi.–5.viii.2009, 4 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in shrubs of *Rubus* along forest and meadow margins. **General distribution:** Palaearctic. **Host plants:** *Rubus* spp.

***Parna tenella* (Klug, 1816)**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Javorník, Jazevčí NNR (17), 12.v.2009, 1 ex. Nová Lhota, Hryzlácké Mlýny (19), 13.v.–22.vi.2009, 2 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Tilia* spp.

***Profenusus pygmaea* (Klug, 1816)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Valašské Klobouky, Bílé potoky NR (3), 5.vi.2006, 1 ex. Javorník, Jazevčí NNR (17), 2.vi.2009, 1 ex. Nová Lhota, Hryzlácké Mlýny (19), 3.vi.2009, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in deciduous forests with oak stands. **General distribution:** Western Palaearctic. **Host plants:** *Quercus* spp.

***Scolioneura betuleti* (Klug, 1816)**

Material examined. Valašské Klobouky, Bílé potoky NR (3), 5.vi.2006, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Betula* spp.

Subfamily Nematinae

***Amauronematus amentorum* (Förster, 1854)**

Material examined. Valašské Klobouky, Bílé potoky NR (3), 30.iv.2006, 1 ex., MT; 12.v.2006, 1 ex., MT. Javorník, Machová NR (24), 8.v.2007, 4 larvae on *Salix caprea*. All J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Holarctic. **Host plant:** *Salix caprea*.

***Amauronematus histrio* (Serville, 1823)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23); Radějov, Kútky NR (28).

Additional material examined. Valašské Klobouky, Bílé potoky NR (3), 30.iv.2006, 1 ex., MT, M. Omelková lgt.; 11.v.2006, 1 ex., MT, J. Macek lgt. Žitková, Hutě NR (10), 9.v.2007, 1 ex., MT, J. Macek lgt. Výškovec, Chmelinec NM (11), 29.iv.2007, 1 ex., MT, M. Omelková lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed with *Salix* spp. in meadow spring areas and in alder-willow carrs. **General distribution:** Holarctic. **Host plants:** *Salix* spp.

***Amauronematus humeralis* (Serville, 1823)**

Published record. MACEK (2009): Javorník, Machová NR (23).

Additional material examined. Žitková, Hutě NR (10), 9.v.2007, 2 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Salix caprea*, *S. cinerea*.

***Amauronematus krausi* Taeger et Blank, 1998**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Žitková, Hutě NR (10), 9.v.2007, 1 ex. Nová Lhota, Hryzlácké Mlýny (19), 12.v.2009, 1 ex. Strání, Javorina NNR (32), 12.v.2009, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed together with the host plant in mixed and deciduous forests. **General distribution:** Palaearctic. **Host plant:** *Populus tremula*.

***Amauronematus leucolenus* (Brischke, 1883)**

Published record. MACEK (2009): Javorník, Machová NR (23).

Additional material examined. Valašské Klobouky, Bílé potoky NR (3), 11.v.2006, 1 ex., MT. Žitková, Hutě NR (10), 9.v.2007, 6 larvae on *Salix caprea*. Nová Lhota, Vápenky (22), 15.v.2008, 12 larvae on *Salix aurita*. All J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed together with the host plants. **General distribution:** Western Palaearctic, Nearctic. **Host plants:** *Salix caprea*, *S. cinerea*, *S. aurita*.

***Amauronematus longiserra* (Thomson, 1862)**

Published record. MACEK (2009): Javorník, Machová NR (23).

Additional material examined. Žitková, Hutě NR (10), 9.v.2007, 1 ex., MT; 20.v.2008, 6 larvae on *Salix aurita*. All J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed with *Salix* spp. **General distribution:** Palaearctic. **Host plants:** *Salix caprea*, *S. aurita*, *S. cinerea*.

Comments. MACEK (2009) recorded the species from Machová NR for the first time for Moravia.

***Amauronematus puniceus* (Christ, 1791)**

Published record. MACEK (2009): Javorník, Machová NR (24).

Additional material examined. Žitková, Hutě NR (10), 9.v.2007, 3 ex., MT; 20.v.2008, 2 larvae on *Salix aurita*. All J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plant:** *Salix caprea*.

***Amauronematus sagmarius* Konow, 1895**

Published record. MACEK (2009): Javorník, Machová NR (23).

Distribution and frequency in the Bílé Karpaty PLA: Very local and rare species which may, however, be dispersed throughout the area. **General distribution:** Holarctic. **Host plants:** *Salix phylicifolia* (TAEGER *et al.* 1998); *Salix aurita*, *S. cinerea* (new host records).

Comments. MACEK (2009) recorded the species from Machová NR for the first time for Moravia.

***Amauronematus tunicatus* Zaddach, 1883**

Material examined. Petrůvka, Kladenka brook (5), 12.v.2008, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plants:** *Salix caprea*, *S. cinerea*, *S. aurita*.

***Amauronematus viduatus* (Zetterstedt, 1838)**

Published record. MACEK (2009): Javorník, Machová NR (23, 24).

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Holarctic. **Host plants:** *Salix* spp.

***Amauronematus vittatus* (Serville, 1823)**

Published records. MACEK (2009): Javorník, Machová NR (23, 24).

Additional material examined. Poteč, Ploščiny NR (2), 11.v.2006, 3 ex. Valašské Klobouky, Bílé potoky NR (3), 11.v.2006, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed with *Salix* spp. in meadow spring areas and alder-willow carrs. **General distribution:** Palaearctic. **Host plants:** *Salix* spp.

***Anoplonyx ovatus* (Zaddach, 1883)**

Material examined. Poteč, Ploščiny NR (2), 11.v.2006, 4 ex.; 6.vi.2006, 1 ex. Valašské Klobouky, Bílé potoky NR (3), 5.vi.2006, 3 ex. Javorník, Machová NR (23), 9.v.2005, 1 ex.; 8.v.2007, 5 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed with larch in mixed and coniferous forests. **General distribution:** Palaearctic. **Host plants:** *Larix* spp.

***Cladius brullei* (Dahlbom, 1835)**

Material examined. Valašské Klobouky, Bílé potoky NR (3), 23.vi.2006, 1 ex. Strání, Javorina NNR (32), 15.vii.–24.viii.2009, 7 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Cosmopolitan. **Host plants:** *Rubus* spp.

***Cladius compressicornis* (Fabricius, 1804)**

Published records. MACEK (2009) [as *Cladius pallipes* (Serville, 1823)]: Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 12.v.–23.ix.2008, 31 ex. Poteč, Ploščiny NR (2), 26.vi.–30.vii.2006, 5 ex. Valašské Klobouky, Bílé potoky NR (3), 23.vi.–30.vii.2006, 6 ex. Petrůvka, Kladenka brook (5), 12.v.–26.viii.2008, 22 ex. Sidonie, Sidonie NR (7), 10.viii.2010, 1 ex. Svatý Štěpán, Chladný vrch NM (8), 8.ix.2010, 1 ex. Žitková, Hutě NR (10), 29.v.2007, 3 ex.; 11.vii.2007, 1 ex. Javorník, Jazevčí NNR (17, 18), 9.iv.–24.viii.2009, 46 ex. Nová Lhota, Hryzlácké Mlýny (19), 10.iv.–24.viii.2009, 52 ex. Nová Lhota, Vápenky (22), 12.v.–16.ix.2009, 28 ex. Radějov, Radějovská obora – Mandát brook (27),

Sawflies (Hymenoptera: Symphyta)

26.vi.–5.viii.2008, 7 ex. Strání, Záhumenice NM (31), 25.v.–12.viii.2010, 6 ex. Strání, Javorina NNR (32), 3.vi.–24.viii.2009, 8 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in mixed and deciduous forests and along their margins. **General distribution:** Holarctic, Oriental. **Host plants:** Various rosaceous trees and shrubs (e.g. *Crataegus*, *Prunus*, and *Sorbus* spp.).

Cladius pectinicornis (Geoffroy, 1785)

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23); Radějov, Kútky NR (28).

Additional material examined. Petrůvka, U Petrůvky NM (1), 12.v.–23.ix.2008, 16 ex., MT, J. Macek lgt. Poteč, Ploščiny NR (2), 6.vi.–31.vii.2006, 7 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 5.vi.–24.viii.2006, 12 ex.; 22.vii.2007, 4 ex.; all MT, M. Omelková lgt. Petrůvka, Kladenska brook (5), 3.vi.–16.vii.2008, 3 ex. Lopeník, Hrubý Mechnáč (9), 5.vi.2006, 2 ex.; 19.vii.2006, 1 ex.; all MT, M. Omelková lgt. Žitková, Hutě NR (10), 19.vii.2006, 2 ex., MT, M. Omelková lgt.; 9.v.–30.vii.2007, 18 ex., MT, J. Macek lgt. Výškovec, Chmelinec NM (11), 17.vi.2007, 2 ex., MT, M. Omelková lgt. Výškovec (12), 12.viii.2007, 2 ex., MT, M. Omelková lgt. Radějov, Žerotín NM (13), 3.vi.–26.viii.2008, 17 ex., MT, J. Macek lgt. Velká nad Veličkou, Zahrady pod Hájem NNR (14), 2.vi.–15.vii.2009, 5 ex., MT, J. Macek lgt. Javorník, Jazevčí NNR (17, 18), 9.iv.–14.ix.2009, 28 ex., MT, J. Macek lgt. Nová Lhota, Hryzlácké Mlýny (19), 10.iv.–16.ix.2009, 19 ex., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 4.vi.–5.viii.2009, 10 spec, MT, J. Macek lgt. Radějov, Radějovská obora – Mandát brook (27), 15.vii.2008, 2 ex., MT, J. Macek lgt. Strání, Záhumenice NM (31), 5.v.–12.viii.2010, 10 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in scrub, along forest margins and in meadows with scattered shrubs. **General distribution:** Holarctic, Oriental. **Host plants:** *Rosa* spp., *Fragaria* spp.

Cladius pilicornis Curtis, 1833

Material examined. Petrůvka, U Petrůvky NM (1), 25.viii.2008, 1 ex., MT, J. Macek lgt. Poteč, Ploščiny NR (2), 11.v.2006, 1 ex.; 23.vii.2006, 3 ex.; all MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 19.vii.2006, 2 ex., MT, M. Omelková lgt. Žitková, Hutě NR (10), 19.vi.2007, 2 ex., MT, J. Macek lgt. Radějov, Žerotín NM (13), 26.vi.2008, 1 ex., MT, J. Macek lgt. Kněždub, Čertoryje NNR (15), 10.v.–23.vii.2006, 28 ex., MT, J. Macek lgt. Javorník, Jazevčí NNR (17, 18), 13.v.–24.viii.2009, 25 ex., MT, J. Macek lgt. Nová Lhota, Hryzlácké Mlýny (19), 4.vi.–15.vii.2009, 12 ex., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 4.vi.–24.viii.2009, 18 ex., MT, J. Macek lgt. Javorník, Machová NR (23), 28.v.–22.vii.2007, 9 ex., MT, J. Macek lgt. Radějov, Radějovská obora – Mandát brook (27), 26.vi.2008, 3 ex., MT, J. Macek lgt. Radějov, Kútky NR (28), 26.vi.2008, 2 ex., MT, J. Macek lgt. Strání, Záhumenice NM (31), 16.vi.–9.xi.2010, 8 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in scrub, along forest margins, and in meadows. **General distribution:** Western Palaearctic. **Host plants:** *Crataegus* spp.

Cladius rufipes Serville, 1823

Material examined. Javorník, Filipovské údolí (30), 21.ix.2005, 6 larvae on *Ulmus glabra*, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plants:** *Ulmus* spp.

***Cladius ulmi* (Linnaeus, 1758)**

Material examined. Javorník, Filipovské údolí (30), 21.ix.2005, 3 larvae on *Ulmus glabra*, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Ulmus* spp.

***Craesus alniastri* (Scharfenberg, 1805)**

Material examined. Vyskovec, Chmelínek NM (11), 17.v.2007, 1 ex., MT, M. Omelková lgt. Velká nad Veličkou, Zahrady pod Hájem NNR (14), 21.ix.2005, 16 larvae on *Alnus incana*, J. Macek lgt. Nová Lhota, Vápenky (22), 21.ix.2005, 6 larvae on *Alnus incana*; 5.viii.2009, 1 ex.; all J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in mixed and deciduous forests and alder carrs. **General distribution:** Western Palaearctic. **Host plants:** *Alnus* spp.

***Craesus septentrionalis* (Linnaeus, 1758)**

Material examined. Žitková, Hutě NR (10), 11.vii.–31.vii.2007, 2 ex., MT, M. Omelková lgt. Velká nad Veličkou, Zahrady pod Hájem NNR (14), 21.ix.2005, 2 larvae on *Betula*. Nová Lhota, Vápenky (22), 21.ix.2005, 5 larvae on *Betula*. All J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in mixed and deciduous forests. **General distribution:** Western Palaearctic. **Host plants:** *Betula* spp., *Corylus* spp., *Alnus* spp.

***Dineura stilata* (Klug, 1816)**

Material examined. Javorník, Jazevěč NNR (17), 10.iv.–12.v.2009, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plants:** *Crataegus* spp.

***Dineura testaceipes* (Klug, 1816)**

Material examined. Velká nad Veličkou, Zahrady pod Hájem NNR (14), 20.ix.2005, 5 larvae on *Crataegus* sp., J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Crataegus* spp., *Sorbus aucuparia*.

***Euura atra* (Jurine, 1807) species group**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 9.iv.–3.vi.2008, 12 ex. Poteč, Ploščiny NR (2), 6.vi.2006, 3 ex. Valašské Klobouky, Bílé potoky NR (3), 11.v.–13.vii.2006, 27 ex. Žitková, Hutě NR (10), 9.v.2007, 6 ex. Javorník, Jazevčí NNR (18), 12.v.2009, 5 ex. Radějov, Kútky NR (28), 12.v.2008, 2 ex. Strání, Svinárský potok brook (33), 7.vi.2005, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in willow carrs, meadow spring areas, and marshes. **General distribution:** Western Palaearctic. **Host plants:** *Salix alba*, *S. fragilis*, *S. viminalis*, *S. cinerea*, *S. purpurea*, *S. eleagnos*.

Comments. *Euura atra* group is made up of eight species based on different host plant associations (KOPELKE 1996). Five species may be expected in the Czech Republic. For the difficulties in the identification of adults, all material is cited here under the aggregate name, *Euura atra*.

***Euura mucronata* (Hartig, 1837) species group**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23); Radějov, Kútky NR (28).

Additional material examined. Poteč, Ploščiny NR (2), 9.iv.–23.vii.2006, 12 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 9.iv.–13.vii.2006, 18 ex., MT, J. Macek lgt. Lopeník, Hrubý Mechnáč (9), 23.v.2006, 2 ex., MT, M. Omelková lgt. Žitková, Hutě NR (10), 25.vi.2006, 4 ex., MT, M. Omelková lgt. Javorník, Jazevčí NNR (18), 12.v.2009, 3 ex., MT, J. Macek lgt. Nová Lhota, Hryzlácké Mlýny (19), 12.v.2009, 2 ex., MT, J. Macek lgt. Radějov, Radějovská obora – Mandát brook (27), 13.v.2008, 2 ex., MT, J. Macek lgt. Strání, Svinárský potok brook (33), 20.iv.–7.vi.2005, 15 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in meadow spring areas, willow carrs, and marshes. **General distribution:** Western Palaearctic, Nearctic. **Host plants:** *Salix aurita*, *S. caprea*, *S. cinerea*.

Comment. *Euura mucronata* group is made up of 13 species based on different host plant associations (KOPELKE 2001). Four of them may be expected in the Czech Republic. For the difficulties in the identification of adults, all material is cited here under the aggregate name, *Euura mucronata*.

***Euura venusta* (Brischke, 1883)**

Published record. MACEK (2009): Javorník, Machová NR (23).

Additional material examined. Strání, Svinárský potok brook (33), 7.vi.2005, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Salix aurita*, *S. caprea*.

***Hemichroa australis* (Serville, 1823)**

Material examined. Strání, Svinárský potok brook (33), 26.vii.2005, MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Alnus* spp.

***Hoplocampa chrysorrhoea* (Klug, 1816)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23); Radějov, Kútky NR (28).

Additional material examined. Poteč, Ploščiny NR (2), 6.vi.2006, 5 ex. Valašské Klobouky, Bílé potoky NR (3), 23.vi.2006, 2 ex. Nová Lhota, Vápenky (22), 12.v.2009, 1 ex. Strání, Záhumenice NM (31), 7.iv.–25.v.2010, 5 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in meadows with scattered shrubs, scrub and along forest margins. **General distribution:** Western Palaearctic. **Host plant:** *Prunus spinosa*.

***Hoplocampa crataegi* (Klug, 1816)**

Material examined. Petrůvka, U Petrůvky NM (1), 3.vi.2008, 1 ex. Poteč, Ploščiny NR (2), 22.vi.2006, 2 ex. Žitková, Hutě NR (10), 19.vi.2007, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in meadows with scattered shrubs, scrub and along forest margins. **General distribution:** Western Palaearctic. **Host plants:** *Crataegus* spp.

***Hoplocampa flava* (Linnaeus, 1761)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15).

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plants:** *Prunus* spp.

***Hoplocampa fulvicornis* (Panzer, 1801)**

Published record. MACEK (2009): Radějov, Kútky NR (28).

Additional material examined. Petrůvka, U Petrůvky NM (1), 12.v.2008, 1 ex. Poteč, Ploščiny NR (2), 22.vi.2006, 1 ex. Petrůvka, Kladenska brook (5), 21.iv.–12.v.2008, 3 ex. Žitková, Hutě NR (10), 9.v.2007, 1 ex. Javorník, Jazevčí NNR (18), 12.v.2009, 2 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in meadows with scattered shrubs, in scrub, and along forest margins. **General distribution:** Western Palaearctic. **Host plants:** *Prunus spinosa*, *P. domestica*.

***Hoplocampa minuta* (Christ, 1791)**

Published record. MACEK (2009): Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 12.v.2008, 3 ex., MT, J. Macek lgt. Poteč, Ploščiny NR (2), 6.vi.2006, 1 ex. MT, J. Macek lgt. Petrůvka, Kladenska brook (5), 21.iv.2008, 1 ex., MT, J. Macek lgt. Vyškovec (12), 11.iv.2007, 1 ex., swept, O. Konvička lgt. Strání, Javorina NNR (32), 12.v.2009, 2 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in meadows with scattered shrubs, in scrub, and along forest margins. **General distribution:** Palaearctic. **Host plants:** *Prunus* spp.

***Mesoneura opaca* (Fabricius, 1775)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23); Radějov, Kútky NR (28).

Additional material examined. Javorník, Jazevčí NNR (17), 12.v.2009, 1 ex. Velká nad Veličkou, Zahrady pod Hájem NNR (14), 12.v.2009, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in oak stands throughout the area. **General distribution:** Western Palaearctic. **Host plants:** *Quercus* spp.

***Nematinus bilineatus* (Klug, 1819)**

Material examined. Nová Lhota, Hryzlácké Mlýny (19), 3.vi.2009, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plants:** *Alnus* spp.

***Nematinus fuscipennis* (Serville, 1823)**

Material examined. Nedašova Lhota, Zápechová (4), 9.vi.2005, 1 ex., swept, P. Chvojka lgt. Nová Lhota, Vápenky (22), 22.ix.2005, 6 larvae on *Alnus glutinosa*, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in alder carrs. **General distribution:** Western Palaearctic. **Host plants:** *Alnus* spp., *Carpinus betulus*.

***Nematinus luteus* (Panzer, 1803)**

Material examined. Nová Lhota, Vápenky (22), 25.vii.2005, 2 larvae on *Alnus glutinosa*, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Alnus* spp., *Corylus avellana*.

***Nematinus steini* Blank, 1998**

Material examined. Kněždub, Čertoryje NNR (16), 29.v.2006, 2 ex., MT. Nová Lhota, Vápenky (22), 25.vii.2005, 8 larvae on *Alnus glutinosa*. Javorník, Filipovské údolí (30), 25.vii.2005, 12 larvae on *Alnus glutinosa*. Strání, Svinárský potok brook (33), 25.vii.2005, 5 larvae on *Alnus glutinosa*. All. J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in alder carrs. **General distribution:** Western Palaearctic. **Host plants:** *Alnus* spp.

***Nematus bergmanni* Dahlbom, 1835**

Material examined. Poteč, Ploščiny NR (2), 23.vi.–31.vii.2006, 5 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 23.vi.2006, 3 ex.; 23.viii.2006, 2 ex., all MT, J. Macek lgt. Petrůvka, Kladenka brook (5), 16.vii.2008, 2 ex., MT, J. Macek lgt. Lopeník, Hrubý Mechnáč (9), 3.–19.vii.2006, 5 ex., MT, M. Omelková lgt. Žitková, Hutě NR (10), 19.vi.–21.viii.2007, 16 ex., MT, J. Macek lgt. Vyškovec, Chmelinec NM (11), 17.vi.–12.viii.2007, MT, M. Omelková lgt. Radějov, Žerotín NM (13), 26.vi.2008, 1 ex., MT, J. Macek lgt. Javorník, Jazevčí NNR (18), 12.v.–25.vi.2009, 9 ex., MT, J. Macek lgt. Kněždub, Čertoryje NNR (21), 25.v.–9.ix.2010, 39 ex., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 10.iv.–16.ix.2009, 35 ex., MT, J. Macek lgt. Javorník, Machová NR (25), 9.v.–3.x.2007, 27 ex., MT, J. Macek lgt. Radějov, Radějovská obora – Mandát brook (27), 15.vii.2008, 1 ex., MT, J. Macek lgt. Radějov, Kútky NR (28), 15.vii.2008, 2 ex., MT, J. Macek lgt.; 25.v.–9.ix.2010, 65 ex., MT, J. Macek lgt. Strání, Záhumenice NM (31), 25.v.–12.viii.2010, 5 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in willow carrs, riverine willow scrub, and meadow spring areas. **General distribution:** Palaearctic. **Host plants:** *Salix* spp.

***Nematus caeruleocarpus* Hartig, 1837**

Material examined. Poteč, Ploščiny NR (2), 6.vi.2006, 1 ex. Javorník, Jazevčí NNR (18), 23.vi.2009, 1 ex. Nová Lhota, Vápenky (22), 10.iv.–22.vi.2009, 4 ex. Javorník, Machová NR (25), 9.–28.v.2007, 2 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in willow carrs, riverine willow scrub, and meadow spring areas. **General distribution:** Palaearctic. **Host plants:** *Salix* spp.

***Nematus fagi* Zaddach, 1876**

Material examined. Valašské Klobouky, Bílé potoky NR (3), 19.vii.2006, 1 ex., MT, M. Omelková lgt. Nová Lhota, Vápenky – Hubertova chata hut (29), 29.viii.2005, 1 ex., MT, J. Macek lgt. Strání, Svinárský potok brook (33), 19.v.–25.viii.2005, 15 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in beech forests. **General distribution:** Western Palaearctic. **Host plant:** *Fagus sylvatica*.

***Nematus ferrugineus* Förster, 1854**

Material examined. Javorník, Machová NR (24), 9.v.2007, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Salix* spp.

***Nematus fuscomaculatus* Förster, 1854**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Javorník, Jazevčí NNR (18), 10.iv.–25.vi.2009, 12 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Very local in willow carrs and riverine willow scrub. **General distribution:** Western Palaearctic. **Host plants:** *Salix* spp. (PSCHORN-WALCHER & ALTENHOFER 2006).

Nematus hypoxanthus Förster, 1854

Material examined. Valašské Klobouky, Bílé potoky NR (3), 23.vi.2006, 2 ex. Javorník, Jazevčí NNR (18), 12.v.–25.vi.2009, 5 ex. Kněždub, Čertoryje NNR (21), 12.viii.2010, 1 ex. Javorník, Machová NR (25), 28.v.–18.vi.2007, 5 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in willow carrs, meadow spring areas, and riverine willow scrub. **General distribution:** Palaearctic. **Host plants:** *Salix* spp.

Nematus incompletus Förster, 1854

Material examined. Javorník, Jazevčí NNR (17, 18), 12.v.–14.ix.2009, 18 ex. Nová Lhota, Hryzlácké Mlýny (19), 15.vii.2009, 2 ex. Javorník, Machová NR (25), 21.x.2010, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in mesic species-rich meadows. **General distribution:** Palaearctic. **Host plants:** *Lathyrus vernus* (KONTUNIEMI 1960), *L. pratensis* (new record).

Comments. TAEGER *et al.* (1998) reported *Populus tremula* and *Salix* spp. as food plants for *N. incompletus*. However, they confused *N. incompletus* with *N. fuscomaculatus*. KONTUNIEMI (1960) recorded *Lathyrus vernus* as a food plant for *Pteronidea segmentaria* which is conspecific with *Nematus incompletus*.

Nematus leucotrochus Hartig, 1837

Material examined. Strání, Javorina NNR (32), 23.vi.2009, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plants:** *Ribes uva-crispa*, *R. nigrum*, *R. rubrum*.

Nematus lucidus Panzer, 1801

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 23.vi.2008, 1 ex. Poteč, Ploščíny NR (2), 6.vii.2006, 1 ex., 23.vii.2006, 1 ex. Žitková, Hutě NR (10), 9.v.2007, 1 ex. Javorník, Jazevčí NNR (17, 18), 9.iv.–24.viii.2009, 8 ex. Velká nad Veličkou, Zahrady pod Hájem NNR (14), 12.v.2009, 1 ex. Nová Lhota, Hryzlácké Mlýny (19), 10.iv.–15.vii.2009, 13 ex. Nová Lhota, Vápenky (22), 5.viii.2009, 2 ex. Radějov, Radějovská obora – Mandát brook (27), 22.iv.–5.viii.2008, 7 ex. Radějov, Kútky NR (28), 22.iv.–5.viii.2008, 10 ex. Strání, Záhumenice NM (31), 25.v.–9.ix.2010, 11 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in tall mesic and xeric scrub. **General distribution:** Palaearctic. **Host plants:** *Prunus spinosa*, *Crataegus* spp.

***Nematus melanocephalus* Hartig, 1837**

Material examined. Kněždub, Čertoryje NNR (16), 20.vi.2006, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plants:** *Corylus avellana*, *Salix* spp., *Betula* spp., *Populus* spp., *Ulmus* spp.

***Nematus miliaris* (Panzer, 1797)**

Material examined. Poteč, Ploščiny NR (2), 23.vii.2006, 1 ex. Javorník, Machová NR (25), 15.vi.2010, 1 ex. Both MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Salix* spp.

***Nematus myosotidis* (Fabricius, 1804)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23, 24); Radějov, Kútky NR (28).

Additional material examined. Petrůvka, U Petrůvky NM (1), 3.vi.–23.ix.2008, 18 ex., MT, J. Macek lgt. Poteč, Ploščiny NR (2), 6.vi.–23.vii.2006, 7 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 11.v.2006, 5 ex.; 20.ix.2006, 2 ex.; all MT, J. Macek lgt. Petrůvka, Kladenka brook (5), 16.vii.–4.viii.2008, 8 ex., MT, J. Macek lgt. Lopeník, Hrubý Mechnáč (9), 12.viii.2007, 7 ex., MT, M. Omelková lgt. Žitková, Hutě NR (10), 25.vi.2006, 2 ex., MT, M. Omelková lgt.; 29.v.–21.viii.2007, MT, J. Macek lgt. Výškovec (12), 22.vii.2007, 2 ex., MT, M. Omelková lgt. Radějov, Žerotín NM (13), 12.v.–24.ix.2008, 13 ex., MT, J. Macek lgt. Nová Lhota, Hryzlácké Mlýny (19), 4.vi.–16.ix.2009, 25 ex., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 4.vi.–16.ix.2009, 14 ex., MT, J. Macek lgt. Strání, Záhumenice NM (31), 16.vi.2010, 2 ex., MT, J. Macek lgt. Strání, Javorina NNR (32), 12.v.2009, 4 ex., MT, J. Macek lgt. Javorník, Jazevčí NNR (18), 9.iv.–14.ix.2009, 42 ex., MT, J. Macek lgt. Strání, Svinárský potok brook (33), 5.viii.2005, 2 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in meadows. **General distribution:** Palaearctic. **Host plants:** *Onobrychis* spp., *Trifolium* spp., *Vicia cracca*, *Lathyrus pratensis*.

***Nematus notabilis* (Konow, 1903)**

Material examined. Javorník, Machová NR (23), 22.viii.2007, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plant:** Unknown.

***Nematus oligospilus* Förster, 1854**

Material examined. Kněždub, Čertoryje NNR (21), 14.vii.2010, 3 ex. Javorník, Machová NR (23), 18.vi.2007, 1 ex. Strání, Javorina NNR (32), 16.vi.2009, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in willow carrs, meadow spring areas and riverine willow scrub. **General distribution:** Cosmopolitan. **Host plants:** *Salix* spp.

***Nematus papillosus* (Retzius, 1783)**

Material examined. Poteč, Ploščiny NR (2), 31.vii.2006, 1 ex. Valašské Klobouky, Bílé potoky NR (3), 23.vi.–30.vii.2006, 3 ex. Javorník, Jazevčí NNR (18), 12.v.2009, 1 ex. Nová Lhota, Vápenky (22), 15.vii.2009, 1 ex. Javorník, Machová NR (25), 13.vii.2010, 1 ex. Strání, Záhumenice NM (31), 16.vi.2010, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in willow carrs, meadow spring areas, and riverine willow scrub. **General distribution:** Palaearctic. **Host plants:** *Salix* spp., *Populus tremula*.

Comments. *Nematus papillosus* is conspecific with *Nematus melanaspis* Hartig, 1840 (see TAEGER *et al.* 2010).

***Nematus pavidus* Serville, 1823**

Material examined. Javorník, Jazevčí NNR (17), 24.viii.2009, 1 ex. Kněždub, Čertoryje NNR (21), 14.vii.2010, 1 ex. Javorník, Machová NR (25), 10.viii.2010, 1 ex. Strání, Záhumenice NM (31), 16.vi.2010, 1 ex. Strání, Svinárský potok brook (33), 29.vi.2005, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in willow carrs, meadow springs areas, and riverine willow scrub. **General distribution:** Palaearctic. **Host plants:** *Salix* spp., *Populus tremula*.

***Nematus poecilonotus* Zaddach, 1876**

Material examined. Poteč, Ploščiny NR (2), 11.v.2006, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Holarctic. **Host plants:** *Betula pendula*.

***Nematus respondens* Förster, 1854**

Material examined. Petrůvka, U Petrůvky NM (1), 4.viii.2008, 2 ex. Javorník, Jazevčí NNR (18), 14.ix.2009, 1 ex. Javorník, Machová NR (24), 18.vi.2007, 1 ex. Strání, Záhumenice NM (31), 9.vii.2010, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in willow carrs, meadow spring areas, and riverine willow scrub. **General distribution:** Western Palaearctic. **Host plants:** *Salix* spp.

***Nematus spiraeae* Zaddach, 1883**

Material examined. Strání, Javorina NNR (32), 5.viii.2009, 6 larvae on *Aruncus vulgaris*, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plant:** *Aruncus vulgaris*.

Nematus sylvestris Cameron, 1884

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Poteč, Ploščiny NR (2), 31.vii.2006, 1 ex., MT, J. Macek lgt. Petrůvka, Kladenska brook (5), 23.vi.2008, 1 ex., MT, J. Macek lgt. Žitková, Hutě NR (10), 25.vi.2006, 1 ex., MT, M. Omelková lgt. Strání, Javorina NNR (32), 15.vii.2009, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Local and rare in willow carrs, meadow spring areas, and riverine willow scrub. **General distribution:** Western Palaearctic. **Host plants:** *Salix* spp.

Nematus tibialis Newman, 1837

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic, Nearctic. **Host plant:** *Robinia pseudacacia*.

Comments. A Nearctic species introduced into Europe together with its host plant from North America.

Nematus umbratus Thomson, 1871

Material examined. Javorník, Machová NR (23), 8.v.2007, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Only a single specimen has been recorded. **General distribution:** Holarctic. **Host plants:** *Betula* spp., *Alnus viridis*, *Corylus* spp.

Comments. The species is widely distributed in the western Palaearctic and Nearctic Regions; in central Europe it has been recorded in Slovakia, Austria, Germany, and Poland (TAEGER *et al.* 2008). This is the first record for the Czech Republic.

Nematus vicinus Serville, 1823

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Petrůvka, Kladenska brook (5), 3.vi.2008, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Holarctic. **Host plants:** *Populus* spp., *Betula* spp., *Salix* spp., *Rumex obtusifolius*, *R. crispus*.

Nematus viridis Stephens, 1835

Material examined. Poteč, Ploščiny NR (2), 6.vi.–23.vii.2006, 5 ex., MT, J. Macek lgt. Lopeník, Hrubý Mechnáč (9), 5.vi.–3.vii.2006, 2 ex., MT, M. Omelková lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in mixed forests with birch stands. **General distribution:** Palaearctic. **Host plants:** *Betula* spp.

***Nematus viridissimus* Möller, 1882**

Material examined. Petrůvka, Kladenka brook (5), 12.v.2007, 1 ex., 16.vii.2007, 2 ex., MT, J. Macek lgt. Lopeník, Hrubý Mechnáč (9), 23.viii.2006, 1 ex., MT, M. Omelková lgt. Kněždub, Čertoryje NNR (21), 12.viii.2010, 1 ex., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 3.vi.2008, 1 ex.; 24.viii.2008, 1 ex.; all MT, J. Macek lgt. Javorník, Machová NR (25), 7.ix.2010, 1 ex., MT, J. Macek lgt. Radějov, Radějovská obora – Mandát brook (27), 15.vii.–26.viii.2008, 5 ex., MT, J. Macek lgt. Radějov, Kútky NR (28), 15.vii.–26.viii.2008, 5 ex., MT, J. Macek lgt. Strání, Svinárský potok brook (33), 26.vii.2005, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in alder carrs. **General distribution:** Western Palaearctic. **Host plants:** *Alnus* spp.

***Pachynematus clitellatus* (Serville, 1823)**

Material examined. Javorník, Machová NR (23), 8.v.2007, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** Cyperaceae, Poaceae.

***Pachynematus fallax* (Serville, 1823)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23, 24); Radějov, Kútky NR (28).

Additional material examined. Petrůvka, U Petrůvky NM (1), 12.v.2008, 1 ex. Petrůvka, Kladenka brook (5), 26.viii.2008, 1 ex. Žitková, Hutě NR (10), 9.v.2007, 1 ex.; 25.viii.2007, 1 ex. Javorník, Jazevčí NNR (17), 12.v.2008, 1 ex.; 24.viii.2009, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in mesic meadows. **General distribution:** Western Palaearctic. **Host plants:** Poaceae.

***Pachynematus gehrsi* (Konow, 1903)**

Material examined. Strání, Svinárský potok brook (33), 7.vi.2005, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plants:** *Polygonum* spp.

***Pachynematus itoi* Okutani, 1955**

Material examined. Javorník, Machová NR (23), 2.viii.2007, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Larix* spp.

Comments. The species was described from Japan (OKUTANI 1955) and further recorded from China (WEI *et al.* 2006), Russia, and Austria (TAEGER *et al.* 2006). This is the first record for the Czech Republic.

***Pachynematus moerens* (Förster, 1854)**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic, Nearctic. **Host plants:** Unknown.

***Pachynematus obductus* (Hartig, 1837)**

Material examined. Poteč, Ploščiny NR (2), 6.vi.2006, 1 ex. Nová Lhota, Hryzlácké Mlýny (19), 15.vii.2009, 1 ex. Strání, Javorina NNR (32), 23.vi.–5.viii.2009, 3 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in mesic meadows. **General distribution:** Western Palaearctic, Nearctic. **Host plants:** *Carex*, *Festuca*, *Poa* spp.

***Pachynematus pallescens* (Hartig, 1837)**

Material examined. Javorník, Jazevčí NNR (17), 2.vi.2009, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic, Nearctic. **Host plants:** *Picea* spp.

***Pachynematus vagus* (Fabricius, 1781)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Radějov, Kútky NR (28).

Additional material examined. Petrůvka, U Petrůvky NM (1), 3.vi.2008, 1 ex., MT, J. Macek lgt. Poteč, Ploščiny NR (2), 23.viii.2006, MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 19.vii.–23.viii.2006, 5 ex., MT, M. Omelková lgt. Lopeník, Hrubý Mechnáč (9), 19.vii.–23.viii.2006, 5 ex.; 17.vi.2007, 2 ex.; all MT, M. Omelková lgt. Žitková, Hutě NR (10), 25.vi.2006, 3 ex., MT, M. Omelková lgt. Výskovec (12), 12.viii.2007, 1 ex., MT, M. Omelková lgt. Javorník, Jazevčí NNR (17, 18), 9.iv.–14.ix.2009, 12 ex., MT, J. Macek lgt. Nová Lhota, Hryzlácké Mlýny (19), 10.iv.–12.vi.2009, 3 ex., MT, J. Macek lgt. Nová Lhota, Vápenky – Hubertova chata hut (29), 25.vii.2005, 2 ex.; 29.viii.2005, 1 ex., all MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in mesic and humid meadows, meadow and forest spring areas, and forest clearings. **General distribution:** Holarctic. **Host plant:** *Carex nigra*.

***Phyllocolpa leucapsis* (Tischbein, 1846)**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Valašské Klobouky, Bílé potoky NR (3), 11.v.–5.vi.2006, 4 ex. Žitková, Hutě NR (10), 29.v.2007, 1 ex. Javorník, Jazevčí NNR (17), 12.v.2009, 1 ex. Javorník, Machová NR (24), 9.v.–25.v.2007, 3 ex. Strání, Svinárský potok brook (33), 19.v.2005, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in willow carrs, meadow spring areas, and alluvial forests. **General distribution:** Western Palaearctic. **Host plants:** *Salix* spp.

***Phyllocolpa leucosticta* (Hartig, 1837)**

Material examined. Poteč, Ploščiny NR (2), 6.vi.2006, 1 ex., MT, J. Macek lgt. Žitková, Hutě NR (10), 29.v.2007, 1 ex., MT, J. Macek lgt. Vyškovec, Chmelinec NM (11), 17.vi.2007, 1 ex., MT, M. Omelková lgt. Javorník, Jazevčí NNR (18), 12.v.2009, 2 ex., MT, J. Macek lgt. Javorník, Machová NR (23), 9.v.–18.vi.2007, 3 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in meadow spring areas, alluvial and humid deciduous forests. **General distribution:** Western Palaearctic. **Host plants:** *Salix* spp.

***Pikonema insigne* (Hartig, 1840)**

Material examined. Petrůvka, Kladenka brook (5), 21.iv.2008, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plant:** *Picea abies*.

***Pikonema scutellatum* (Hartig, 1837)**

Material examined. Valašské Klobouky, Bílé potoky NR (3), 5.vi.2006, 2 ex., MT, M. Omelková lgt.; 3.vi.2007, 1 ex., MT, J. Macek lgt. Nedašov, Holý vrch (6), 8.v.2006, 25 ex., swept, J. Macek lgt. Radějov, Radějovská obora – Mandát brook (27), 4.vi.2008, 1 ex., MT, J. Macek lgt. Radějov, Kútky NR (28), 4.vi.2008, MT, J. Macek lgt. Nová Lhota, Vápenky – Hubertova chata hut (29), 19.v.2005, MT, J. Macek lgt. Strání, Svinárský potok brook (33), 7.vi.2005, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in spruce stands in coniferous and mixed forests. **General distribution:** Western Palaearctic. **Host plants:** *Picea* spp.

***Pontania bridgmanii* (Cameron, 1883)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23, 24).

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plants:** *Salix caprea*, *S. aurita*, *S. cinerea*.

***Pontania pedunculi* (Hartig, 1837)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plant:** *Salix cinerea*.

***Pristiphora abbreviata* (Hartig, 1837)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plants:** *Pyrus* spp.

***Pristiphora abietina* (Christ, 1791)**

Material examined. Petrůvka, U Petrůvky NM (1), 3.vi.2008, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plant:** *Picea abies*.

***Pristiphora albitibia* (Costa, 1859)**

Published record. MACEK (2009): Javorník, Machová NR (23).

Additional material examined. Javorník, Jazevčí NNR (17), 15.vii.2009, 1 ex. Kněždub, Čertoryje NNR (21), 9.v.–20.vi.2010, 4 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in mesic species-rich meadows. **General distribution:** Palaearctic. **Host plants:** *Vicia* spp.

***Pristiphora appendiculata* (Hartig, 1837)**

Material examined. Nová Lhota, Hryzlácké Mlýny (19), 3.vi.2009, 1 ex. Nová Lhota, Vápenky (22), 3.vi.2009, 1 ex. Both MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in undergrowth of deciduous and mixed forests. **General distribution:** Holarctic. **Host plants:** *Ribes* spp.

***Pristiphora armata* (Thomson, 1862)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23); Radějov, Kútky NR (28).

Additional material examined. Petrůvka, U Petrůvky NM (1), 3.vi.–25.viii.2008, 7 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 19.vii.2006, 2 ex., MT, M. Omelková lgt.; 13.vii.2006, 1 ex., MT, J. Macek lgt. Petrůvka, Kladenska brook (5), 3.vi.–16.vii.2008, 5 ex., MT, J. Macek lgt. Žitková, Hutě NR (10), 21.viii.–2.ix.2007, 3 ex., MT, J. Macek lgt. Radějov, Žerotín NM (13), 26.vi.2008, 1 ex., MT, J. Macek lgt. Velká nad Veličkou, Zahrady pod Hájem NNR (14), 15.vii.2009, 1 ex., MT, J. Macek lgt. Javorník, Jazevčí NNR (17, 18), 13.v.–14.ix.2009, 35 ex., MT, J. Macek lgt. Nová Lhota, Hryzlácké Mlýny (19), 10.iv.–6.viii.2009, 18 ex., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 10.iv.–15.vii.2009, 12 ex., MT, J. Macek lgt. Radějov, Radějovská obora – Mandát brook (27), 4.vi.–26.viii.2008, 7 ex., MT, J. Macek lgt. Javorník, Filipovské údolí (30), 20.ix.2005, 2 larvae on *Crataegus* sp., J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in shrubs along forest margins or scattered in meadows. **General distribution:** Western Palaearctic. **Host plants:** *Crataegus* spp., *Prunus avium*.

***Pristiphora biscalis* (Förster, 1854)**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Petřůvka, U Petřůvky NM (1), 12.v.2008, 1 ex. All MT, J. Macek lgt. Poteč, Ploščiny NR (2), 11.v.–6.vi.2006, 3 ex. Valašské Klobouky, Bílé potoky NR (3), 11.v.2006, 1 ex. Petřůvka, Kladenka brook (5), 12.v.2008, 1 ex. Javorník, Jazevčí NNR (17), 12.v.2009, 1 ex. Javorník, Machová NR (23), 9.vii.2007, 1 ex.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed together with blackthorn scrub. **General distribution:** Western Palaearctic. **Host plants:** *Prunus spinosa*, *Rosa canina*, *Potentilla fruticosa*.

***Pristiphora bufo* Brischke, 1833**

Published record. MACEK (2009): Javorník, Machová NR (23).

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plant:** *Larix decidua*.

Comments. BENEŠ (1989) reported the species from Moravia as *Pristiphora pallidula* (Konow, 1902).

***Pristiphora compressa* (Hartig, 1837)**

Material examined. Valašské Klobouky, Bílé potoky NR (3), 5.vi.2006, 1 ex., MT, J. Macek lgt.; 3.vi.2007, 1 ex., MT, M. Omelková lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed together with spruce in mixed and coniferous forests. **General distribution:** Palaearctic. **Host plants:** *Picea* spp.

***Pristiphora conjugata* (Dahlbom, 1835)**

Material examined. Kněždub, Čertoryje NNR (16), 10.vii.2006, 1 ex. Javorník, Jazevčí NNR (17), 12.v.2009, 1 ex. Javorník, Machová NR (24), 9.v.2007, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in meadow spring fens, willow carrs, and riverine galleries. **General distribution:** Palaearctic. **Host plants:** *Salix* spp.

***Pristiphora decipiens* (Enslin, 1916)**

Material examined. Strání, Javorina NNR (32), 12.v.2009, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plants:** *Picea* spp.

***Pristiphora geniculata* (Hartig, 1840)**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Material examined. Javorník, Jazevčí NNR (17), 12.v.2009, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaeartic. **Host plant:** *Sorbus aucuparia*.

***Pristiphora gerula* (Konow, 1904)**

Published record. MACEK (2009): Javorník, Machová NR (23).

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaeartic. **Host plants:** *Picea* spp.

***Pristiphora insularis* (Rohwer, 1910)**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Javorník, Jazevčí NNR (17), 9.iv.–12.v.2009, 2 ex. Petrůvka, Kladenka brook (5), 3.vi.2008, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in tall mesic and xeric scrub and meadows with scattered rosebush. **General distribution:** Holarctic. **Host plants:** *Rosa* spp.

***Pristiphora laricis* (Hartig, 1837)**

Material examined. Valašské Klobouky, Bílé potoky NR (3), 19.vii.2006, 1 ex., MT, M. Omelková lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaeartic. **Host plant:** *Larix decidua*.

***Pristiphora leucopodia* (Hartig, 1837)**

Material examined. Valašské Klobouky, Bílé potoky NR (3), 3.vi.2007, 1 ex., M. Omelková lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaeartic. **Host plants:** *Picea* spp.

***Pristiphora leucopus* Hellén, 1948**

Material examined. Radějov, Žerotín NM (13), 4.vi.2008, 1 ex. Kněždub, Čertoryje NNR (16), 9.v.–31.vii.2006, 8 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaeartic. **Host plants:** *Tilia* spp.

Comments. *Pristiphora leucopus* is known from various parts of Europe; in central Europe, it has been recorded from Slovakia and Germany (TAEGER *et al.* 2006). These are the first records for the Czech Republic.

***Pristiphora luteipes* Lindqvist, 1955**

Material examined. Nová Lhota, Vápenky (22), 12.v.2009, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palearctic. **Host plants:** *Salix* spp.

Comments. The species was cited by VIKBERG (2006) from Bohemia. This is the first record for Moravia.

***Pristiphora maesta* (Zaddach, 1876)**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Javorník, Jazevčí NNR (17), 12.v.2009, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palearctic. **Host plants:** *Malus* spp.

***Pristiphora monogyniae* (Hartig, 1840)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 12.v.2008, 1 ex. Radějov, Žerotín NM (13), 12.v.2008, 1 ex. Radějov, Kútky NR (28), 13.v.2008, 1 ex. Javorník, Jazevčí NNR (17), 12.v.2009, 1 ex. Nová Lhota, Hryzlácké Mlýny (19), 12.v.2009, 2 ex. Nová Lhota, Vápenky (22), 12.v.2009, 1 ex. Radějov, Radějovská obora – Mandát brook (27), 13.v.2008, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widespread in tall mesic and xeric scrub. **General distribution:** Western Palearctic. **Host plant:** *Prunus spinosa*.

***Pristiphora nigella* (Förster, 1854)**

Material examined. Valašské Klobouky, Bílé potoky NR (3), 11.v.–5.vi.2006, 4 ex. Poteč, Ploščiny NR (2), 11.v.2006, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed with spruce stands in mixed and coniferous forests. **General distribution:** Western Palearctic. **Host plants:** *Picea* spp.

***Pristiphora nigriceps* (Hartig, 1840)**

Material examined. Valašské Klobouky, Bílé potoky NR (3), 3.vi.2007, 1 ex., MT, M. Omelková lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palearctic. **Host plants:** *Picea* spp.

***Pristiphora pallidiventris* (Fallén, 1808)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 25.viii.–23.ix.2008, 3 ex. Poteč, Ploščiny NR (2), 22.vi.2006, 1 ex. Valašské Klobouky, Bílé potoky NR (3), 5.vi.2006, 1 ex. Javorník, Jazevčí NNR (17, 18),

9.iv.–24.viii.2009, 8 ex. Nová Lhota, Hryzlácké Mlýny (19), 6.viii.2009, 2 ex. Nová Lhota, Vápenky – Hubertova chata hut (29), 19.v.2008, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in deciduous and mixed forests. **General distribution:** Holarctic. **Host plants:** *Rubus* spp., *Filipendula ulmaria*, *Geum* spp., *Potentilla* spp.

Pristiphora parva (Hartig, 1837)

Material examined. Poteč, Ploščiny NR (2), 11.v.2006, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plants:** *Picea* spp.

Pristiphora platycerus (Hartig, 1840)

Published records. MACEK (2009) [as *Stauronematus compressicornis* (Fabricius, 1804)]: Kněždub, Čertoryje NNR (15).

Additional material examined. Poteč, Ploščiny NR (2), 31.vii.2006, 2 ex. Javorník, Jazevčí NNR (17), 12.v.–5.viii.2009, 4 ex. Javorník, Machová NR (26), 10.viii.2010, 1 ex. Nová Lhota, Vápenky (22), 4.vi.–5.viii.2009, 3 ex. Strání, Záhumenice NM (31), 16.vi.–12.viii.2010, 3 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed together with the host plant. **General distribution:** Palaearctic. **Host plant:** *Populus tremula*.

Pristiphora pseudodecipiens Beneš et Křístek, 1976

Material examined. Petrůvka, U Petrůvky NM (1), 3.vi.2008, 1 ex., MT, J. Macek lgt. Poteč, Ploščiny NR (2), 6.–22.vi.2008, 3 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 5.vi.2006, 1 ex., MT, J. Macek lgt. Sidonie, Sidonie NR (7), 16.vi.2010, 1 ex., MT, J. Macek lgt. Vyškovec, Chmelinec NM (11), 17.vi.2007, MT, M. Omelková lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in spruce stands in mixed and coniferous forests. **General distribution:** Western Palaearctic. **Host plants:** *Picea* spp.

Pristiphora punctifrons (Thomson, 1871)

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Poteč, Ploščiny NR (2), 11.v.2006, 1 ex. Petrůvka, Kladenka brook (5), 12.v.2008, 1 ex. Javorník, Jazevčí NNR (17), 12.v.2009, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in tall mesic and xeric scrub and in meadows with scattered shrubs. **General distribution:** Palaearctic. **Host plants:** *Rosa* spp.

***Pristiphora rufipes* (Serville, 1823)**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plants:** *Aquilegia* spp., *Thalictrum* spp.

***Pristiphora saxesenii* (Hartig, 1837)**

Published record. MACEK (2009): Javorník, Machová NR (23).

Additional material examined. Poteč, Ploščiny NR (2), 6.vi.2006, 1 ex., J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 3.vi.2007, 1 ex., MT, M. Omelková lgt.; 11.v.–5.vi.2006, 4 ex., MT, J. Macek lgt. Svatý Štěpán, Chladný vrch NM (8), 16.vi.2010, 1 ex., MT, J. Macek lgt. Javorník, Jazevčí NNR (17), 12.v.2009, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in spruce stands in mixed and coniferous forests. **General distribution:** Western Palaearctic. **Host plants:** *Picea* spp.

***Pristiphora subbifida* (Thomson, 1871)**

Material examined. Petrůvka, U Petrůvky NM (1), 3.vi.2008, 1 ex. Kněždub, Čertoryje NNR (15), 10.v.2006, 1 ex. Javorník, Jazevčí NNR (17), 12.v.2009, 1 ex. Nová Lhota, Hryzácké Mlýny (19), 12.v.2009, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Local in oak-hornbeam and sycamore-beech forests. **General distribution:** Western Palaearctic. **Host plants:** *Acer campestre*, *A. pseudoplatanus*.

***Pristiphora subopaca* Lindqvist, 1955**

Material examined. Poteč, Ploščiny NR (2), 31.vii.2006, 2 ex. Valašské Klobouky, Bílé potoky NR (3), 31.vii.2006, 2 ex. Žitková, Hutě NR (10), 29.v.2007, 1 ex. Javorník, Jazevčí NNR (18), 10.iv.–24.viii.2009, 14 ex. Kněždub, Čertoryje NNR (21), 16.vi.–9.ix.2010, 6 ex. Javorník, Machová NR (23), 9.vii.–22.viii.2007, 6 ex. Radějov, Radějovská obora – Mandát brook (27), 26.vi.2008, 1 ex. Radějov, Kútky NR (28), 26.vi.–15.vii.2008, 4 ex. Strání, Javorina NNR (32), 15.vii.2009, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in willow carrs, meadow spring areas, and riverine galleries. **General distribution:** Western Palaearctic. **Host plants:** *Salix* spp.

Comments. The species was formerly included in the aggregate taxon *Pristiphora melanocarpa* (Hartig, 1840) until LINDQVIST (1955) recognized it as a valid species. It is known from Scandinavia and Italy. Here it is recorded for the first time for the Czech Republic.

***Pristiphora testacea* (Jurine, 1807)**

Material examined. Nová Lhota, Hryzlácké Mlýny (19), 24.viii.2009, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Betula* spp.

***Pristiphora tetrica* (Zaddach, 1883)**

Material examined. Javorník, Machová NR (23), 9.v.2007, 1 ex., MT. Strání, Javorina NNR (32), 12.v.2009, 6 ex., MT; 18.vi.2008, 27 larvae on *Acer pseudoplatanus*. All J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Very local in montane sycamore-beech forests. **General distribution:** Western Palaearctic. **Host plant:** *Acer pseudoplatanus*.

***Pseudodineura fuscula* (Klug, 1816)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 12.v.2008, 1 ex. Poteč, Ploščíny NR (2), 11.v.–6.vi.2006, 3 ex. Javorník, Jazevčí NNR (17), 10.iv.–2.vi.2009, 5 ex. Nová Lhota, Hryzlácké Mlýny (19), 12.v.2009, 1 ex. Strání, Svinárský potok brook (33), 19.v.2005, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in mesic and humid meadows. **General distribution:** Western Palaearctic. **Host plants:** *Ranunculus* spp.

Subfamily Selandriinae

***Aneugmenus coronatus* (Klug, 1818)**

(VU)

Material examined. Poteč, Ploščíny NR (2), 23.vii.2006. 2 ex. Kněždub, Čertoryje NNR (15), 28.vii.2005, 1 ex. Nová Lhota, Vápenky – Hubertova chata hut (29), 25.vii.2005, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Local and rare in fern undergrowth of montane mixed and deciduous forests. **General distribution:** Palaearctic. **Host plants:** Various ferns (Pteridophyta).

***Birka annularis* (Thomson, 1870)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 23.vi.2008, 1 ex. Javorník, Jazevčí NNR (17), 10.iv.–14.ix.2009, 34 ex. Nová Lhota, Hryzlácké Mlýny (19), 6.viii.2009, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widespread in mesic species-rich meadows in the southern part of the area. **General distribution:** Palaearctic. **Host plant:** Unknown.

***Birka cinereipes* (Klug, 1816)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 3.vi.–23.ix.2008, 9 ex., MT, J. Macek lgt. Poteč, Ploščiny NR (2), 31.vii.2006, 1 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 19.vii.2006, 2 ex.; 20.ix.2006, 3 ex., all MT, M. Omelková lgt. Petrůvka, Kladenka brook (5), 3.vi.2008, 1 ex.; 4.viii.2008, 2 ex., all MT, J. Macek lgt. Svatý Štěpán, Chladný vrch NM (8), 10.viii.2010, 1 ex., MT, J. Macek lgt. Žitková, Hutě NR (10), 19.vii.2006, 1 ex., MT, M. Omelková lgt.; 11.vii.–21.viii.2007, 5 ex., MT, J. Macek lgt. Radějov, Žerotín NM (13), 15.vii.2008, 1 ex., MT, J. Macek lgt. Javorník, Jazevčí NNR (17), 23.vi.–5.viii.2009, 3 ex., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 12.v.2009, 2 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widespread in humid and mesic meadows. **General distribution:** Palaearctic. **Host plants:** *Myosotis* spp.

***Dolerus aeneus* Hartig, 1837**

Material examined. Poteč, Ploščiny NR (2), 11.2006, 1 ex.; 6.vi.2006, 5 ex., all MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 11.v.2006, 6 ex.; 5.vi.2006, 2 ex., all MT, J. Macek lgt.; Lopeník, Hrubý Mechnáč (9), 6.v.2006, 3 ex., MT, M. Omelková lgt. Javorník, Machová NR (23), 9.v.2007, 2 ex.; 28.v.2007, 1 ex., all J. Macek lgt. Strání, Javorina NNR (32), 3.vi.2009, 1 ex.; 23.vi.2009, 4 ex., all MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in mesic meadows. **General distribution:** Palaearctic. **Host plants:** Poaceae.

***Dolerus aericeps* Thomson, 1871**

Material examined. Vyškovec (12), 22.vii.2007, 1 ex., MT, M. Omelková lgt. Nová Lhota, Vápenky (22), 26.vii.2005, 2 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Equisetum* spp.

***Dolerus anthracinus* (Klug, 1818)**

Material examined. Kněždub, Čertoryje NNR (15), 14.v.2008, 2 larvae on *Poa* sp. Strání, Javorina NNR (32), 12.v.2009, 1 ex., MT. All J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plants:** Poaceae.

***Dolerus asper* Zaddach, 1859**

Published record. MACEK (2009): Javorník, Machová NR (23).

Additional material examined. Poteč, Ploščiny NR (2), 11.v.2006, 1 ex., 6.vi.2006, 2 ex. Radějov, Radějovská obora – Mandát brook (27), 22.iv.2008, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in mesic and humid meadows. **General distribution:** Palaearctic. **Host plants:** Cyperaceae.

***Dolerus bimaculatus* (Geoffroy, 1785)**

Material examined. Poteč, Ploščiny NR (2), 11.v.2006, 2 ex.; 6.vi.2006, 1 ex., all J. Macek lgt. Lopeník, Hrubý Mechnáč (9), 17.vi.2004, 1 ex., MT, M. Omelková lgt. Žitková, Hutě NR (10), 25.vi.2006, 1 ex., MT, M. Omelková lgt.; 29.v.2007, 1 ex., MT, J. Macek lgt. Javorník, Machová NR (23), 18.vi.2007, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Local in humid and mesic meadows. **General distribution:** Palaearctic. **Host plants:** *Equisetum arvense*, *E. palustre*.

***Dolerus brevicornis* Zaddach, 1859**

Published record. MACEK (2008): Kněždub, Čertoryje NNR (15).

Additional material examined. Poteč, Ploščiny NR (2), 11.v.2006, 3 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 30.iv.2006, 1 ex., MT, M. Omelková lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in mesic and humid meadows. **General distribution:** Holarctic. **Host plant:** *Carex panicea*.

***Dolerus cothurnatus* Serville, 1823**

Material examined. Žitková, Hutě NR (10), 9.v.2007, 2 ex.; 19.vi.2007, 7 ex., all MT, J. Macek lgt. Vyškovec, Chmelinec NM (11), 17.v.2007, 2 ex., MT, M. Omelková lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in mesic and humid meadows. **General distribution:** Palaearctic. **Host plants:** *Equisetum* spp.

***Dolerus eversmanni* Kirby, 1882**

Material examined. Žitková, Hutě NR (10), 9.v.2007, 1 ex. Javorník, Jazevčí NNR (17), 12.v.2009, 1 ex. Javorník, Machová NR (25), 28.v.2010, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Local in humid meadows with the occurrence of the host plants. **General distribution:** Palaearctic. **Host plants:** *Equisetum* spp.

***Dolerus ferrugatus* Serville, 1823**

Material examined. Lopeník, Hrubý Mechnáč (9), 23.v.2006, 1 ex.; 3.vii.2007, 6 ex., all MT, M. Omelková lgt. Javorník, Machová NR (24), 18.vi.2007, 2 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in humid meadows and marshes. **General distribution:** Western Palaearctic. **Host plant:** *Juncus effusus*.

***Dolerus fumosus* Stephens, 1835**

Material examined. Poteč, Ploščiny NR (2), 11.v.2006, 1 ex.; 6.vi.2006, 5 ex.; 22.vi.2006, 1 ex.; all MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 30.iv.2006, 1 ex., MT, M. Omelková lgt. Petrůvka,

Sawflies (Hymenoptera: Symphyta)

Kladenka brook (5), 3.vi.2008, 2 ex., MT, J. Macek lgt. Lopeník, Hrubý Mechnáč (9), 5.vi.2006, 1 ex., MT, M. Omelková lgt. Žitková, Hutě NR (10), 25.vi.2006, 4 ex., MT, M. Omelková lgt. Vyškovec, Chmelinec NM (11), 29.iv.2007, 1 ex., MT, M. Omelková lgt. Kněždub, Čertoryje NNR (15), 20.vi.2006, 6 ex., MT, J. Macek lgt. Javorník, Jazevčí NNR (17, 18), 12.v.2009, 8 ex., MT, J. Macek lgt. Nová Lhota, Hryzlácké Mlýny (19), 12.v.2009, 2 ex., MT, J. Macek lgt. Suchov, Suchovské louky (20), 8.v.2007, 1 ex., swept, J. Macek lgt. Javorník, Machová NR (26), 15.vi.2010, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widespread in mesic meadows. **General distribution:** Western Palaearctic. **Host plant:** Unknown, probably various Poaceae.

Dolerus germanicus (Fabricius, 1775)

Published record. MACEK (2009): Radějov, Kútky NR (28).

Additional material examined. Valašské Klobouky, Bílé potoky NR (3), 13.vii.2006, 1 ex., MT, J. Macek lgt. Žitková, Hutě NR (10), 25.vi.2006, 2 ex., MT, M. Omelková lgt.; 19.vi.2007, 1 ex.; 11.vii.2007, 1 ex., all MT, J. Macek lgt. Kněždub, Čertoryje NNR (16), 13.v.2008, 1 ex., swept, J. Macek lgt. Javorník, Jazevčí NNR (17), 14.ix.2009, 1 ex., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 26.vii.2005, 3 ex., swept from *Equisetum*, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in humid and mesic meadows. **General distribution:** Palaearctic. **Host plants:** *Equisetum* spp.

Dolerus gessneri André, 1880

Material examined. Žitková, Hutě NR (10), 9.v.2007, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Holarctic. **Host plants:** *Equisetum* spp.

Dolerus gonager (Fabricius, 1771)

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Poteč, Ploščiny NR (2), 11.v.2006, 1 ex.; 6.vi.2006, 1 ex., all MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 11.v.2006, 1 ex., MT, J. Macek lgt. Petrůvka, Kladenka brook (5), 21.iv.2008, 1 ex., MT, J. Macek lgt. Žitková, Hutě NR (10), 9.v.2007, 2 ex., MT, J. Macek lgt. Vyškovec, Chmelinec NM (11), 29.iv.2007, 1 ex., MT, M. Omelková lgt. Vyškovec (12), 11.iv.2007, 1 ex., swept, O. Konvička lgt. Javorník, Jazevčí NNR (17), 12.v.2009, 4 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widespread in mesic meadows. **General distribution:** Palaearctic. **Host plants:** Poaceae.

Dolerus haematodes (Schrank, 1781)

Material examined. Poteč, Ploščiny NR (2), 11.v.2006, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** Poaceae.

***Dolerus harwoodi* Benson, 1947**

Published record. MACEK (2008a): Javorník, Machová NR (23).

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** Unknown, probably various Poaceae.

***Dolerus liogaster* Thomson, 1871**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plants:** Poaceae.

***Dolerus madidus* (Klug, 1818)**

Material examined. Valašské Klobouky, Bílé potoky NR (3), 30.iv.2006, 1 ex., MT, M. Omelková lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plant:** *Juncus effusus*.

***Dolerus niger* (Linnaeus, 1767)**

Published record. MACEK (2009): Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 12.v.2008, 3 ex., MT, J. Macek lgt. Poteč, Ploščiny NR (2), 22.vi.2006, 7 ex., MT, J. Macek lgt. Petrůvka, Kladenka brook (5), 3.vi.2008, 1 ex., MT, J. Macek lgt. Lopeník, Hrubý Mechnáč (9), 5.vi.2006, 1 ex., MT, M. Omelková lgt. Žitková, Hutě NR (10), 29.v.2007, 2 ex., MT, J. Macek lgt. Javorník, Jazevčí NNR (17), 12.v.2009, 5 ex., MT, J. Macek lgt. Strání, Javorina NNR (32), 23.vi.2009, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widespread in mesic and humid meadows. **General distribution:** Palaearctic. **Host plants:** Poaceae.

***Dolerus nigratus* (Müller, 1776)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 12.iv.2008, 1 ex.; 12.v.2008, 1 ex., all MT, J. Macek lgt. Poteč, Ploščiny NR (2), 11.v.2006, 2 ex.; 6.vi.2006, 1 ex.; all MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 30.iv.2006, 1 ex., MT, M. Omelková lgt.; 11.v.2006, 2 ex., MT, J. Macek lgt. Žitková, Hutě NR (10), 25.iv.2006, 1 ex., MT, M. Omelková lgt.; 9.v.2007, 5 ex., MT, J. Macek lgt. Výskovec (12), 11.iv.2007, 1 ex., swept, O. Konvička lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widespread in mesic and humid meadows. **General distribution:** Palaearctic. **Host plants:** Poaceae.

***Dolerus nitens* Zaddach, 1859**

Material examined. Strání, Javorina NNR (32), 12.v.2009, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Holarctic. **Host plants:** Poaceae.

***Dolerus picipes* (Klug, 1818)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23); Radějov, Kútky NR (28).

Additional material examined. Petrůvka, U Petrůvky NM (1), 12.v.2008, 6 ex.; 3.vi.2008, 1 ex., all MT, J. Macek lgt. Poteč, Ploščiny NR (2), 11.v.2006, 5 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 11.v.2006, 1 ex., MT, J. Macek lgt. Žitková, Hutě NR (10), 25.vi.2006, 1 ex., MT, M. Omelková lgt.; 9.v.2007, 3 ex.; 29.v.2007, 1 ex., all MT, J. Macek lgt. Javorník, Jazevčí NNR (17, 18), 12.v.2009, 12 ex., MT, J. Macek lgt. Strání, Javorina NNR (32), 12.v.2009, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widespread in mesic and xeric meadows. **General distribution:** Palaearctic. **Host plants:** Poaceae.

***Dolerus puncticollis* Thomson, 1871**

Material examined. Javorník, Jazevčí NNR (17), 12.v.2009, 1 ex. Radějov, Radějovská obora – Mandát brook (27), 22.iv.2008, 1 ex. Radějov, Kútky NR (28), 22.iv.2008, 2 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plant:** *Dactylis glomerata*.

***Dolerus sanguinicollis* (Klug, 1818)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 3.vi.2008, 2 ex.; 23.vi.2008, 5 ex. Svatý Štěpán, Chladný vrch NM (8), 24.v.2010, 1 ex. Žitková, Hutě NR (10), 29.v.2007, MT, 4 ex. Radějov, Radějovská obora – Mandát brook (27), 13.v.2008, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in mesic meadows. **General distribution:** Western Palaearctic. **Host plants:** Unknown, probably various Poaceae.

***Dolerus triplicatus* (Klug, 1818)**

(VU)

Material examined. Žitková, Hutě NR (10), 9.v.2007, 1 ex., MT, J. Macek lgt. Vyškovec, Chmelinec NM (11), 29.iv.2007, 1 ex., MT, M. Omelková lgt. Vyškovec (12), 11.iv.2007, 1 ex., swept, O. Konvička lgt. Javorník, Jazevčí NNR (18), 12.v.2009, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Local in humid meadows, marshes and spring fens. **General distribution:** Western Palaearctic. **Host plants:** *Juncus effusus*, *J. filiformis*.

***Dolerus varispinus* Hartig, 1837**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Poteč, Ploščiny NR (2), 11.v.2006, 2 ex.; 6.vi.2006, 1 ex. Radějov, Žerotín NM (13), 12.v.2008, 3 ex. Javorník, Machová NR (26), 5.v.2010, 1 ex., MT. Strání, Javorina NNR (32), 12.v.2009, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in mesic and xeric meadows. **General distribution:** Western Palaearctic. **Host plants:** Poaceae.

***Dolerus vestigialis* (Klug, 1818)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Radějov, Kútky NR (28).

Additional material examined. Poteč, Ploščiny NR (2), 11.v.2006, 5 ex.; 22.vi.2006, 2 ex.; 23.vii.2006, 2 ex., all MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 30.iv.2006, 1 ex.; 3.vi.2007, 1 ex., MT, M. Omelková lgt.; 11.v.2007, 4 ex.; 5.vi.2007, 1 ex.; 23.vi.2007, 1 ex.; all MT, J. Macek lgt. Svätý Štěpán, Chladný vrch NM (8), 5.v.–4.vii.2010, 5 ex., MT, J. Macek lgt. Lopeník, Hrubý Mechnáč (9), 23.v.2006, 2 ex.; 5.vi.2006, 1 ex.; all MT, M. Omelková lgt. Žitková, Hutě NR (10), 25.vi.2006, 11 ex., MT, M. Omelková lgt.; 29.v.2007, 6 ex., MT, J. Macek lgt. Javorník, Jazevčí NNR (18), 12.v.2009, 5 ex.; 2.vi.2009, 9 ex.; 25.vi.2009, 1 ex.; all MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in mesic and humid meadows. **General distribution:** Western Palaearctic. **Host plants:** *Equisetum* spp.

***Nesoselandria morio* (Fabricius, 1781)**

Published record. MACEK (2009): Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 3.vi.–23.ix.2008, 15 ex., MT, J. Macek lgt. Poteč, Ploščiny NR (2), 22.vi.2006, 2 ex., MT, J. Macek lgt.; Valašské Klobouky, Bílé potoky NR (3), 23.vi.2006, 2 ex., MT, J. Macek lgt. Petrůvka, Kladenska brook (5), 4.viii.2008, 2 ex., MT, J. Macek lgt. Svätý Štěpán, Chladný vrch NM (8), 4.vii.2010, 1 ex., MT, J. Macek lgt. Žitková, Hutě NR (10), 25.vi.2006, 2 ex., MT, M. Omelková lgt.; 19.vi.2007, 5 ex.; 31.vii.2007, 14 ex.; 21.viii.2007, 6 ex.; 2.ix.2007, 1 ex.; all MT, J. Macek lgt. Vyškovec, Chmelínek NM (11), 12.viii.2007, 2 ex., MT, M. Omelková lgt. Vyškovec (12), 12.viii.2007, 2 ex., MT, M. Omelková lgt. Radějov, Žerotín NM (13), 4.vi.–26.vi.2008, 4 ex., MT, J. Macek lgt. Velká nad Veličkou, Zahrady pod Hájem NNR (14), 12.v.–6.viii.2009, 9 ex., MT, J. Macek lgt. Javorník, Jazevčí NNR (17, 18), 10.iv.–24.viii.2009, 28 ex., MT, J. Macek lgt. Nová Lhota, Hryzlácké Mlýny (19), 24.viii.2009, 1 spec., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 10.iv.–24.viii.2009, 12 ex., MT, J. Macek lgt. Strání, Záhumenice NM (31), 25.v.–9.ix.2010, 8 ex., MT, J. Macek lgt. Strání, Javorina NNR (32), 15.vii.–24.viii.2009, 3 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in mesic meadows. **General distribution:** Holarctic, Oriental. **Host plants:** Polyphagous on various herbs.

***Selandria serva* (Fabricius, 1793)**

Material examined. Javorník, Machová NR (24), 6.vi.2005, 2 ex.; 28.v.2007, 1 ex.; all MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** Poaceae.

***Stromboceros delicatulus* (Fallén, 1808)**

Material examined. Petrůvka, Kladenka brook (5), 16.vii.2008, 2 ex. Nová Lhota, Vápenky – Hubertova chata hut (29), 19.v.–25.viii.2005, 16 ex. Strání, Svinárský potok brook (33), 20.iv.–29.viii.2005, 25 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread with ferns in montane coniferous, mixed and deciduous forests. **General distribution:** Palaearctic, Oriental. **Host plants:** Various ferns (Pteridiophyta).

***Strongylogaster baikalensis* Naito, 1990**

Material examined. Javorník, Jazevčí NNR (17), 2.vi.2009, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Dryopteris filix-mas*, *Matteuccia struthiopteris* (MACEK 2010).

Comments. MACEK (2010) recorded this eastern Palaearctic species for the first time for the Czech Republic from various parts of Bohemia. This is the first record for Moravia.

***Strongylogaster macula* (Klug, 1817)**

(EN)

Material examined. Nová Lhota, Vápenky – Hubertova chata hut (29), 19.v.2005, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Holarctic, Oriental. **Host plant:** *Athyrium filix-femina*.

***Strongylogaster mixta* (Klug, 1817)**

Material examined. Valašské Klobouky, Bílé potoky NR (3), 11.v.–5.vi.2006, 4 ex. Nová Lhota, Vápenky – Hubertova chata hut (29), 19.v.2005, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plant:** *Athyrium filix-femina* (MACEK 2010).

***Strongylogaster multifasciata* (Geoffroy, 1785)**

Material examined. Petrůvka, U Petrůvky NM (1), 3.vi.2008, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic, Oriental. **Host plant:** *Pteridium aquilinum* (MACEK 2010).

Subfamily Tenthredininae

Aglaostigma aucupariae (Klug, 1817)

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Petrůvka, U Petrůvky NM (1), 12.v.2008, 2 ex. Poteč, Ploščiny NR (2), 6.vi.2006, 1 ex. Žitková, Hutě NR (10), 9.v.2007, 1 ex. Javorník, Jazevčí NNR (17), 12.v.2009, 6 ex. Nová Lhota, Hryzlácké Mlýny (19), 12.v.2009, 1 ex. Nová Lhota, Vápenky – Hubertova chata hut (29), 9.v.2005, 3 ex. Strání, Svinárský potok brook (33), 19.vi.2005, 2 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in meadows, other grasslands, and deciduous forests. **General distribution:** Palaearctic. **Host plants:** *Galium* spp.

Aglaostigma discolor (Klug, 1817)

(VU)

Published record. MACEK (2008a): Nová Lhota, Vápenky – Hubertova chata hut (29).

Additional material examined. Svatý Štěpán, Chladný vrch NM (8), 16.vi.2010, 1 ex., MT. Strání, Javorina NNR (32), 5.ix.2010, many larvae on *Petasites*. All J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in *Petasites* fringes of montane brooks. **General distribution:** Palaearctic. **Host plants:** *Petasites* spp., *Tussilago farfara*.

Comments. MACEK (2008a) recorded the species for the first time for Moravia based on larvae found on *Petasites hybridus*.

Aglaostigma fulvipes (Scopoli, 1763)

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 3.vi.2008, 2 ex. Poteč, Ploščiny NR (2), 11.v.2006, 6 ex.; 2.vi.2006, 2 ex.; 22.vi.2006, 2 ex. Petrůvka, Kladenka brook (5), 3.vi.2008, 1 ex. Žitková, Hutě NR (10), 29.v.2007, 1 ex. Javorník, Jazevčí NNR (17, 18), 12.v.2007, 3 ex.; 2.vi.2007, 1 ex. Nová Lhota, Vápenky (22), 12.v.2009, 1 ex. Strání, Svinárský potok brook (33), 19.v.2005, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in meadows, other grasslands, and deciduous forests. **General distribution:** Palaearctic. **Host plants:** *Galium* spp.

Aglaostigma lichtwardti (Konow, 1892)

(VU)

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Valašské Klobouky, Bílé potoky NR (3), 5.vi.2006, MT, 3 ex., 23.vi.2006, MT, 1 ex. Nová Lhota, Vápenky (22), 3.vi.2009, MT, 1 ex. Strání, Javorina NNR (32), 21.ix.2009, many larvae on *Petasites*. All J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in *Petasites* fringes of montane brooks. **General distribution:** Western Palaearctic. **Host plants:** *Petasites* spp.

***Aglaostigma nebulosum* (André, 1881) (VU)**

Material examined. Strání, Javorina NNR (32), 26.vii.2005, many larvae on *Impatiens noli-tangere*, J. Macek lgt.; 12.v.2009, 15 adults collected on inflorescens of *Sambucus nigra*, J. Kabelák lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plant:** *Impatiens noli-tangere*.

***Macrophya albicincta* (Schrank, 1776)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Poteč, Ploščiny NR (2), 6.vi.2006, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in forests with well-developed shrub layer. **General distribution:** Western Palaearctic. **Host plants:** *Sambucus* spp., *Valeriana officinalis*, *Viburnum* spp.

***Macrophya albipuncta* (Fallén, 1808)**

Material examined. Petrůvka, U Petrůvky NM (1), 3.vi.2008, 1 ex. Kněždub, Čertoryje NNR (15), 9.v.–20.vi.2006, 12 ex. Javorník, Machová NR (23), 28.v.2007, 8 ex.; 13.v.2008, 5 ex. Javorník, Jazevčí NNR (17), 10.iv.–2.vi.2009, 15 ex. Nová Lhota, Hryzlácké Mlýny (19), 10.iv.–3.vi.2009, 8 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in species-rich mesic meadows. **General distribution:** Palaearctic. **Host plants:** *Geranium sylvaticum*; *G. sanguineum* (new record).

***Macrophya alboannulata* Costa, 1859**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 12.v.2008, 1 ex., MT. Poteč, Ploščiny NR (2), 22.vi.2006, 1 ex., MT. Valašské Klobouky, Bílé potoky NR (3), 23.vi.2006, 1 ex., MT. Petrůvka, Kladenka brook (5), 3.vi.2008, 1 ex., MT. Javorník, Jazevčí NNR (17, 18), 10.iv.–12.vi.2009, 5 ex., MT. Nová Lhota, Vápenky (22), 25.vii.2005, 1 ex., swept. Nová Lhota, Vápenky – Hubertova chata hut (29), 19.v.2005, 1 ex., MT. Strání, Javorina NNR (32), 22.vi.2006, 1 ex., swept. Strání, Svinárský potok brook (33), 20.iv.–7.vi.2005, 3 ex., MT. All J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in mixed and deciduous forests, forest clearings, and along forest margins. **General distribution:** Western Palaearctic. **Host plants:** *Sambucus* spp.

***Macrophya annulata* (Geoffroy, 1775)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Poteč, Ploščiny NR (2), 23.vii.2006, 1 ex. Radějov, Žerotín NM (13), 2.vi.–15.vii.2008, 3 ex. Javorník, Jazevčí NNR (17), 25.vi.2009, 1 ex. Nová Lhota, Hryzlácké Mlýny (19), 3.vi.2009, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in shrubs scattered in mesic and xeric meadows. **General distribution:** Palaearctic. **Host plants:** *Rosa* spp.

***Macrophya blanda* (Fabricius, 1775)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Javorník, Jazevčí NNR (17), 2.vi.2009, 1 ex. Nová Lhota, Hryzlácké Mlýny (19), 3.vi.2009, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Local in mixed and deciduous forests with *Rubus* in undergrowth, perhaps restricted to the southern part of the area. **General distribution:** Palaearctic. **Host plant:** Unknown.

***Macrophya carinthiaca* (Klug, 1817)**

Published record. MACEK (2009): Javorník, Machová NR (23).

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Geranium* spp.

***Macrophya duodecimpunctata* (Linnaeus, 1758)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23); Radějov, Kútky NR (28).

Additional material examined. Petrůvka, U Petrůvky NM (1), 3.vi.2008, 1 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 5.vi.–13.vii.2006, 3 ex., MT, J. Macek lgt. Lopeník, Hrubý Mechnáč (9), 23.v.–5.vi.2006, 4 ex.; 3.vi.2007, 1 ex., MT, M. Omelková lgt. Žitková, Hutě NR (10), 25.vi.2006, 2 ex., MT, M. Omelková lgt.; 9.v.–19.vi.2007, 4 ex., MT, J. Macek lgt. Velká nad Veličkou, Zahrady pod Hájem NNR (14), 12.v.–16.vi.2009, 5 ex., MT, J. Macek lgt. Javorník, Jazevčí NNR (17), 9.iv.–25.vi.2009, 8 ex., MT, J. Macek lgt. Nová Lhota, Hryzlácké Mlýny (19), 3.vi.2009, 1 ex., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 3.vi.2009, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widespread in mesic and humid meadows, marshes, and humid forest clearings. **General distribution:** Western Palaearctic. **Host plants:** *Carex vesicaria*.

***Macrophya montana* (Scopoli, 1763)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Poteč, Ploštiny NR (2), 22.vi.2006, 1 ex. Valašské Klobouky, Bílé potoky NR (3), 23.vi.2006, 1 ex.; 13.vii.2006, 3 ex. Javorník, Jazevčí NNR (17), 12.v.2009, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in mixed and deciduous forests. **General distribution:** Western Palaearctic. **Host plant:** *Rubus fruticosus*.

***Macrophya parvula* (Konow, 1884)**

Published records. MACEK (2008a): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Javorník, Jazevčí NNR (17), 9.iv.–24.viii. 2009, 12 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Confined to the southern part of the area where it may be relatively widespread and occur in mesic species-rich meadows with the presence of the host plant. **General distribution:** Western Palaearctic. **Host plant:** *Serratula tinctoria* (MACEK 2009).

Comments. Since a description of the species, it has not been found anywhere until the only recent record by CHEVIN (1997) from France. MACEK (2008a) recorded the species for the first time for the Czech Republic from the Čertoryje NNR and Machová NR in the White Carpathians and subsequently specified *Serratula tinctoria* as the first known food plant for the larvae (MACEK 2009). In the Bílé Karpaty PLA, the population of *M. parvula* seems to be stable as the specimens were collected throughout the whole period of field work in the current study (2005–2010).

***Macrophya punctumalbum* (Linnaeus, 1767)**

Material examined. Lopeník, Hrubý Mechnáč (9), 3.vii.2006, 1 ex., MT, M. Omelková lgt. Kněždub, Čertoryje NNR (15), 21.ix.2005, 1 larva on *Ligustrum*, J. Macek lgt. Javorník, Machová NR (26), 15.vi.2010, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Local in mixed and deciduous forests, along forest margins, and in tall mesic and xeric scrub. **General distribution:** Western Palaearctic. **Host plants:** *Ligustrum vulgare*, *Fraxinus excelsior*.

***Macrophya recognata* Zombori, 1979**

(VU)

Material examined. Žitková, Hutě NR (10), 29.v.2007, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plant:** Unknown.

***Macrophya ribis* (Schrank, 1781)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 23.vi.–4.viii.2008, 2 ex. Vlášské Klobouky, Bílé potoky NR (3), 5.vi.–13.vii.2006, 3 ex. Strání, Javorina NNR (32), 15.vii.2009, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in mixed and deciduous forests with *Sambucus* in undergrowth. **General distribution:** Western Palaearctic. **Host plants:** *Sambucus* spp.

***Macrophya sanguinolenta* (Gmelin, 1790)**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Petrůvka, U Petrůvky NM (1), 12.v.–3.vi.2008, 3 ex., MT, J. Macek lgt. Poteč, Ploščiny NR (2), 12.v.–22.vi.2006, 3 ex., MT, J. Macek lgt. Lopeník, Hrubý Mechnáč (9), 5.vi.2006, 2 ex., MT, M. Omelková lgt. Žitková, Hutě NR (10), 25.vi.2006, 1 ex., MT, M. Omelková lgt.; 29.v.–19.vi.2007, 3 ex., MT, J. Macek lgt. Vyškovec (12), 22.vii.2007, 1 ex., M. Omelková lgt. Javorník, Jazevčí NNR (17), 9.iv.–2.vi.2009, 2 ex., MT, J. Macek lgt. Nová Lhota, Hryzlácké Mlýny (19), 13.v.–22.vii.2009, 3 ex., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 22.vi.2009, 1 ex., MT, J. Macek lgt. Javorník, Machová NR (26), 24.v.2010, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widespread in mesic meadows, mixed and deciduous forests. **General distribution:** Palaearctic. **Host plants:** *Senecio* spp., *Veronica* spp., *Galeopsis ladanum*.

***Macrophya teutona* (Panzer, 1779)**

(VU)

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Poteč, Ploščiny NR (2), 22.vi.2006, 1 ex. Javorník, Machová NR (23), 30.vi.2005, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Very local and rare in mesic and xeric meadows. **General distribution:** Western Palaearctic. **Host plants:** *Euphorbia cyparissias*, *E. esula* (VIKBERG 2010).

***Pachyprotasis antennata* (Klug, 1817)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Poteč, Ploščiny NR (2), 22.vi.–31.vii.2006, 5 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 19.vii.2006, 2 ex., MT, M. Omelková lgt.; 23.vi.2006, 1 ex., MT, J. Macek lgt. Žitková, Hutě NR (10), 25.vi.2006, 1 ex.; 19.vii.2006, 1 ex., all M. Omelková lgt.; 19.vi.2007, MT, J. Macek lgt. Javorník, Jazevčí NNR (17, 18), 12.v.–25.vi.2009, 8 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in mesic meadows. **General distribution:** Palaearctic, Oriental. **Host plants:** Polyphagous on various herbs and shrubs.

***Pachyprotasis rapae* (Linnaeus, 1767)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 12.v.–25.viii.2008, 15 ex., MT, J. Macek lgt. Poteč, Ploščiny NR (2), 6.vi.–31.vii.2006, 11 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 19.vii.–23.viii.2006, 6 ex., MT, M. Omelková lgt.; 11.v.–20.ix.2006, 17 ex., MT, J. Macek lgt. Petrůvka, Kladenka brook (5), 12.v.–23.vi.2008, 8 ex., MT, J. Macek lgt. Sidonie, Sidonie NR (7), 9.vi.2005, 1 ex., swept, P. Chvojka lgt. Lopeník, Hrubý Mechnáč (9), 23.v.–3.vii.2006, 5 ex., MT, M. Omelková lgt. Žitková, Hutě NR (10), 25.vi.2006, 2 ex., MT, M. Omelková lgt.; 29.v.–31.vii.2006, 5 ex., MT, J. Macek lgt. Vyškovec, Chmelinec NM (11), 23.vii.2007, 1 ex., MT, M. Omelková lgt. Vyškovec (12), 22.vii.–12.viii.2005, 3 ex., MT, M. Omelková lgt. Javorník, Jazevčí NNR (17, 18), 9.iv.–24.viii.2009, 23 ex., MT, J. Macek lgt. Nová Lhota, Hryzlácké Mlýny (19), 3.vi.2009, 2 ex., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 10.iv.–15.vii.2009, 10 ex., MT, J. Macek lgt. Radějov, Radějovská obora – Mandát brook (27), 5.viii.2008, 1 ex., MT, J. Macek lgt.

Sawflies (Hymenoptera: Symphyta)

Nová Lhota, Vápenky – Hubertova chata hut (29), 19.v.–28.vi.2005, 3 ex., MT, J. Macek lgt. Javorník, Filipovské údolí (30), 20.ix.2005, 2 larvae on *Scrophularia*, MT, J. Macek lgt. Strání, Javorina NNR (32), 10.iv.–24.viii.2009, 12 ex., MT, J. Macek lgt. Strání, Svinárský potok brook (33), 19.v.–25.vi.2005, 4 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: One of the most common sawfly species, widespread throughout the area. **General distribution:** Holarctic, Oriental, Neotropical. **Host plants:** Polyphagous on various herbs and shrubs.

Pachyprotasis simulans (Klug, 1817)

(VU)

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Distribution and frequency in the Bílé Karpaty PLA: Very local and rare, confined to the southern part of the area. **General distribution:** Palaearctic. **Host plants:** *Solidago virgaurea* (TAEGER *et al.* 1998), *Aster amellus* (PSCHORN-WALCHER & ALTENHOFFER 2006).

Pachyprotasis variegata (Fallén, 1808)

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Javorník, Jazevčí NNR (17), 9.iv.–25.vi.2009, 9 ex. Nová Lhota, Hryzlácké Mlýny (19), 3.vi.2009, 2 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Confined to oak-hornbeam forests and mesic species-rich meadows in the southern part of the area. **General distribution:** Palaearctic. **Host plant:** *Pyrethrum corymbosum* (new record).

Comments. TAEGER *et al.* (1998) listed various herbs as larval food plants; most of them, however, seem to be doubtful. In the White Carpathians, as well as in other parts of the Czech Republic, the only food plant confirmed is *Pyrethrum corymbosum*.

Perineura rubi (Panzer, 1805)

Published record. MACEK (2008a): Kněždub, Čertoryje NNR (15).

Additional material examined. Poteč, Ploššiny NR (2), 6.vi.2006, 1 ex. Petrůvka, Kladenka brook (5), 12.v.2008, 1 ex. Javorník, Machová NR (23), 9.v.2007, 2 ex. Nová Lhota, Vápenky – Hubertova chata hut (29), 19.v.2005, 1 ex. Strání, Svinárský potok brook (33), 20.iv.–7.vi.2005, 3 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Local, associated with mesic deciduous forests and ash-alder carrs. **General distribution:** Western Palaearctic. **Host plant:** Unknown.

Rhogogaster chlorosoma (Benson, 1943)

Material examined. Vyškovec, Chmelinec NM (11), 17.vi.2007, 1 ex., MT, M. Omelková lgt. Javorník, Jazevčí NNR (18), 12.v.–25.vi.2009, 3 ex., MT, J. Macek lgt. Javorník, Machová NR (25), 13.vii.2010, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in willow and alder carrs, meadow spring areas and humid forests. **General distribution:** Palaearctic. **Host plants:** Polyphagous on various shrubs, herbs and ferns.

***Rhogaster genistae* Benson, 1947**

Published records. MACEK (2008): Žitková, Hutě NR (10); Kněždub, Čertoryje NNR (15).

Additional material examined. Javorník, Jazevčí NNR (17), 2.vi.2009, 1 ex. Nová Lhota, Hryzlácké Mlýny (19), 22.vi.2009, 1 ex. Javorník, Machová NR (26), 24.v.–13.vii.2010, 4 ex. Velká nad Veličkou, Zahrady pod Hájem NNR (14), 12.v.–22.vi.2008, 3 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Local in mesic and xeric species-rich meadows. **General distribution:** Western Palaearctic. **Host plants:** *Genista* spp., *Cytisus* spp.

***Rhogaster picta* (Klug, 1817)**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Radějov, Žerotín NM (13), 12.v.2008, 1 ex. Javorník, Jazevčí NNR (17), 9.iv.–2.vi.2009, 3 ex. Nová Lhota, Hryzlácké Mlýny (19), 13.v.–22.vi.2009, 4 ex. Javorník, Machová NR (26), 28.v.–18.vi.2008, 5 ex. Radějov, Radějovská obora – Mandát brook (27), 4.vi.2008, 1 ex. Radějov, Kútky NR (28), 4.vi.2008, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Confined to mesic and xeric species-rich meadows in the southern part of the area. **General distribution:** Western Palaearctic. **Host plants:** *Cytisus* spp.

***Rhogaster viridis* (Linnaeus, 1758)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23); Radějov, Kútky NR (28).

Additional material examined. Petrůvka, U Petrůvky NM (1), 23.vi.2008, 1 ex., MT, J. Macek lgt. Poteč, Ploščiny NR (2), 23.vi.–31.vii.2006, 3 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 19.vii.2006, 2 ex., MT, M. Omelková lgt. Lopeník, Hrubý Mechnáč (9), 23.v.2006, 1 ex.; 3.vii.2006; 1 ex., all MT, M. Omelková lgt. Žitková, Hutě NR (10), 25.vi.2006, 2 ex.; 19.vii.2006, 1 ex.; all MT, M. Omelková lgt.; 29.v.–12.vi.2006, 2 ex., MT, J. Macek lgt. Javorník, Jazevčí NNR (17), 2.vi.2009, 1 ex., MT, J. Macek lgt. Nová Lhota, Hryzlácké Mlýny (19), 12.v.2009, 1 ex., MT, J. Macek lgt. Strání, Svinárský potok brook (33), 27.vii.2006, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widespread in mixed and deciduous forests and meadows with scattered trees and shrubs. **General distribution:** Holarctic, Oriental. **Host plants:** Various deciduous shrubs and trees.

***Sciapteryx consobrina* Klug, 1814**

(VU)

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Poteč, Ploščiny NR (2), 11.v.–6.vi.2006, 2 ex., MT. Strání, Svinárský potok brook (33), 15.iv.2005, 1 ex., MT; 28.iv.2005, 2 larvae on *Ranunculus* sp. All J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Local in mesic and wet meadows and other grasslands. **General distribution:** Western Palaearctic. **Host plants:** *Adoxa moschatellina*; *Anemone* spp., *Dicentra spectabilis*, *Ficaria* sp. (BENEŠ 1960); *Ranunculus acris* (new record).

***Sciapteryx costalis* (Fabricius, 1775) (VU)**

Material examined. Žitková, Hutě NR (10), 9.v.2007, 1 ex. Javorník, Machová NR (24), 9.v.2007, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plant:** *Ranunculus acris*.

***Siobla sturmii* (Klug, 1817)**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Poteč, Ploščiny NR (2), 22.vi.–23.vii.2006, 3 ex., MT. Javorník, Machová NR (24), 18.vi.2007, 1 ex., MT. Nová Lhota, Vápenky – Hubertova chata hut (29), 25.vii.2005, 6 larvae on *Impatiens noli-tangere*. Strání, Javorina NNR (32), 4.vi.2009, 3 ex., MT; 25.vii.2005, 12 larvae on *Impatiens noli-tangere*. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in montane beech forests. **General distribution:** Palaearctic, Oriental. **Host plant:** *Impatiens noli-tangere*.

***Tenthredo amoena* Gravenhorst, 1807**

Material examined. Poteč, Ploščiny NR (2), 23.viii.2006, 1 ex. Žitková, Hutě NR (10), 21.viii.2007, 1 ex. Kněždub, Čertoryje NNR (15), 28.vii.2005, 1 ex.; 31.vii.2006, 1 ex. Nová Lhota, Vápenky (22), 26.vii.2005, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in mesic and xeric meadows and forest clearings. **General distribution:** Western Palaearctic. **Host plant:** *Hypericum perforatum*.

***Tenthredo arcuata* Förster, 1771**

Material examined. Petrůvka, U Petrůvky NM (1), 25.viii.2008, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plant:** *Trifolium repens*.

***Tenthredo atra* Linnaeus, 1757**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 3.vi.2008, 1 ex., MT, J. Macek lgt. Poteč, Ploščiny NR (2), 22.vi.–23.vii.2006, 2 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3),

19.vii.2006, 1 ex., MT; 3.vi.2007, 1 ex., MT, all M. Omelková lgt. Žitková, Hutě NR (10), 25.vi.2006, 2 ex., MT, M. Omelková lgt.; 29.v.–12.vi.2007, 3 ex., MT, J. Macek lgt. Radějov, Žerotín NM (13), 12.v.2008, 1 ex., J. Macek lgt. Javorník, Jazevčí NNR (17), 10.iv.–24.viii.2009, 5 ex., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 26.vii.2005, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widespread throughout the area. **General distribution:** Palaearctic. **Host plants:** Polyphagous on various herbs.

Tenthredo balteata Klug, 1817

Material examined. Strání, Javorina NNR (32), 23.vi.2009, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** Polyphagous on various herbs and ferns.

Tenthredo bipunctula Klug, 1817

Material examined. Valašské Klobouky, Bílé potoky NR (3), 23.vi.2006, 1 ex., MT. Kněždub, Čertoryje NNR (15), 10.vii.2006, 1 ex., MT. Nová Lhota, Vápenky (22), 22.ix.2005, 2 larvae on *Senecio ovatus*. All J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in montane beech forests. **General distribution:** Western Palaearctic. **Host plant:** *Senecio ovatus*.

Tenthredo brevicornis (Konow, 1886)

Material examined. Žitková, Hutě NR (10), 21.viii.2007, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plant:** *Lotus corniculatus*.

Tenthredo campestris Linnaeus, 1758

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Petrůvka, U Petrůvky NM (1), 25.viii.2008, 1 ex., MT, J. Macek lgt. Poteč, Ploščiny NR (2), 31.vii.2006, 1 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 23.viii.2006, 1 ex., MT, M. Omelková lgt.; 5.vi.2006, 2 ex., MT, J. Macek lgt. Petrůvka, Kladenka brook (5), 3.vi.2008, 1 ex., MT, J. Macek lgt. Žitková, Hutě NR (10), 29.v.2007, 1 ex., MT, J. Macek lgt. Javorník, Machová NR (24), 28.v.2007, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in mixed and deciduous forest and riverine gallery forests. **General distribution:** Palaearctic. **Host plant:** *Aegopodium podagraria*.

Tenthredo colon Klug, 1817

Published record. MACEK (2009): Javorník, Machová NR (23).

Sawflies (Hymenoptera: Symphyta)

Additional material examined. Poteč, Ploščiny NR (2), 22.vi.2006, 1 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 12.viii.2007, 1 ex., MT, M. Omelková lgt.; 13.vii.2006, 1 ex., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 26.vii.2005, 1 ex., MT, J. Macek lgt. Strání, Svinárský potok brook (33), 27.vii.2005, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in montane mixed and deciduous forests. **General distribution:** Holarctic. **Host plants:** Polyphagous on various herbs and low shrubs.

Tenthredo crassa Scopoli, 1763

Material examined. Poteč, Ploščiny NR (2), 22.vi.2006, 1 ex. Žitková, Hutě NR (10), 29.v.2007, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widely distributed in forest spring areas, herbaceous fringes along brooks and rivers, and in humid and mesic meadows. **General distribution:** Palaearctic. **Host plant:** *Angelica archangelica* (not confirmed).

Tenthredo koehleri Klug, 1817

(VU)

Material examined. Poteč, Ploščiny NR (2), 31.vii.2006, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plants:** *Cardamine* spp.

Tenthredo livida Linnaeus, 1758

Material examined. Poteč, Ploščiny NR (2), 23.vii.2006, 1 ex., MT, J. Macek lgt. Petrůvka, Kladenka brook (5), 23.vi.2008, 1 ex., MT, J. Macek lgt. Lopeník, Hrubý Mechnáč (9), 3.vii.–19.vii.2006, 4 ex., MT, M. Omelková lgt. Žitková, Hutě NR (10), 25.vi.2006, 1 ex., MT, M. Omelková lgt. Javorník, Jazevčí NNR (17), 25.vi.2009, 1 ex., MT, J. Macek lgt. Kněždub, Čertoryje NNR (21), 14.vii.2010, 1 ex., MT, J. Macek lgt. Javorník, Machová NR (23), 9.vii.2007, 1 ex., MT, J. Macek lgt. Nová Lhota, Vápenky – Hubertova chata hut (29), 28.vi.2005, 1 ex., MT, J. Macek lgt. Strání, Javorina NNR (32), 5.viii.2009, 1 ex., MT, J. Macek lgt. Strání, Svinárský potok brook (33), 7.vi.–27.vii.2005, 4 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widespread in forest habitats. **General distribution:** Palaearctic. **Host plants:** Polyphagous on various shrubs, herbs and ferns.

Tenthredo maculata Geoffroy, 1785

Material examined. Strání, Javorina NNR (32), 21.v.2005, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plants:** Poaceae.

***Tenthredo mandibularis* Fabricius, 1804**

Material examined. Valašské Klobouky, Bílé potoky NR (3), 19.vii.–23.viii.2006, 3 ex., MT, M. Omelková lgt.; 5.vi.–23.viii.2006, 6 ex., MT, J. Macek lgt. Kněždub, Čertoryje NNR (16), 21.viii.2006, 1 ex., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 3.vi.–16.ix.2009, 7 ex., MT; 8.ix.2009, 28 larvae on *Petasites*, all J. Macek lgt. Javorník, Machová NR (24), 28.v.–12.viii.2007, 3 ex., MT; 6.ix.2009, 12 larvae on *Petasites*; all J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in *Petasites* fringes of montane brooks. **General distribution:** Western Palaearctic. **Host plant:** *Petasites hybridus*.

***Tenthredo mesomela* Linnaeus, 1758**

Published record. MACEK (2009): Javorník, Machová NR (23).

Additional material examined. Poteč, Ploščiny NR (2), 22.vi.–23.vii.2006, 3 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 13.vii.2006, 1 ex., MT, J. Macek lgt. Petrůvka, Kladenka brook (5), 23.vi.2008, 1 ex., MT, J. Macek lgt. Lopeník, Hrubý Mechnáč (9), 3.vii.–19.vii.2006, 4 ex., MT, M. Omelková lgt. Žitková, Hutě NR (10), 25.vi.–19.vii.2006, 3 ex., MT, M. Omelková lgt. Kněždub, Čertoryje NNR (15), 10.vii.2006, 1 ex., MT, J. Macek lgt. Javorník, Jazevěčí NNR (17), 25.vi.2009, 1 ex., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 26.vii.2005, 3 larvae on *Senecio ovatus*; 13.ix.2005, 2 larvae on *Ranunculus repens*, all J. Macek lgt. Javorník, Filipovské údolí (30), 20.ix.2005, 1 ex., MT, J. Macek lgt. Strání, Záhumenice NM (31), 16.vi.2010, 1 ex., MT, J. Macek lgt. Strání, Javorina NNR (32), 5.viii.2009, 1 ex., MT, J. Macek lgt. Strání, Svinárský potok brook (33), 19.v.–23.vi.2005, 2 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widespread in herbaceous fringes of montane brooks and rivers, meadow spring fens, and mesic meadows. **General distribution:** Palaearctic, Oriental. **Host plants:** Polyphagous on various herbs.

***Tenthredo moniliata* Klug, 1817**

(VU)

Material examined. Žitková, Hutě NR (10), 19.vii.2006, 1 ex., MT, M. Omelková lgt.; 29.v.2007; 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic, Oriental. **Host plants:** Polyphagous on various herbs.

***Tenthredo notha* Klug, 1817**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Poteč, Ploščiny NR (2), 23.viii.2006, 1 ex., MT, J. Macek lgt. Žitková, Hutě NR (10), 23.viii.2006, MT, M. Omelková lgt.; 21.viii.2007, 2 ex., MT, J. Macek lgt. Výškovec (12), 12.viii.2007, 1 ex., MT, M. Omelková lgt. Javorník, Jazevěčí NNR (17), 15.vii.–24.viii.2009, 5 ex., MT, J. Macek lgt. Javorník, Machová NR (23), 19.vi.2007, 2 ex., MT, J. Macek lgt. Strání, Záhumenice NM (31), 9.ix.2010, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in mesic meadows. **General distribution:** Western Palaearctic. **Host plants:** *Trifolium* spp.

***Tenthredo procera* Klug, 1817**

(VU)

Material examined. Petrůvka, U Petrůvky NM (1), 3.vi.2008, 1 ex., MT. Petrůvka, Kladenka brook (5), 3.vi.2008, 1 ex., MT. Kněždub, Čertoryje NNR (21), 16.vi.2010, 1 ex., MT. Nová Lhota, Vápenky (22), 3.vi.2009, 1 ex., MT. Javorník, Machová NR (24), 2.viii.2007, 1 ex., MT. Strání, Javorina NNR (32), 15.v.2010, 1 larva on *Symphytum officinale*. All J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in herbaceous fringes of montane brooks and lowland rivers. **General distribution:** Western Palaearctic. **Host plants:** *Symphytum officinale*, *Petasites* spp.

***Tenthredo rubricoxis* (Enslin, 1912)**

Material examined. Poteč, Ploščiny NR (2), 22.vi.–23.vii.2006, 3 ex., MT. Nová Lhota, Vápenky (22), 31.vii.2009, 16 larvae on *Senecio ovatus*. Strání, Javorina NNR (32), 23.vii.2010, 12 larvae on *Senecio ovatus*. Strání, Svinárský potok brook (33), 12.viii.2007, 6 larvae on *Senecio ovatus*. All J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in montane beech forests. **General distribution:** Palaearctic. **Host plants:** *Senecio* spp., *Doronicum austriacum* (PSCHORN-WALCHER & ALTEHNOFFER 2006).

***Tenthredo scrophulariae* Linnaeus, 1758**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Valašské Klobouky, Bílé potoky NR (3), 23.vi.2006, 1 ex., MT. Javorník, Machová NR (23), 8.v.2007, 1 ex.; 22.viii.2007, 1 ex. Javorník, Filipovské údolí (30), 20.ix.2005, 1 larva on *Scrophularia nodosa*. All J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread together with the host plants in meadows and deciduous forests. **General distribution:** Western Palaearctic. **Host plants:** *Scrophularia* spp., *Verbascum nigrum*.

***Tenthredo schaefferi* Klug, 1817**

Material examined. Žitková, Hutě NR (10), 29.v.2007, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Knautia arvensis* (PSCHORN-WALCHER & ALTEHNOFFER 2006).

***Tenthredo solitaria* Scopoli, 1763**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Javorník, Jazevčí NNR (17), 9.iv.–25.vi.2009, 3 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: A thermophilous species confined to the southern part of the area. **General distribution:** Palaearctic. **Host plant:** *Euphorbia cyparissias*.

Tenthredo temula Scopoli, 1763

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Lopeník, Hrubý Mechnáč (9), 23.v.2006, 1 ex., MT, M. Omelková lgt. Žitková, Hutě NR (10), 29.v.2007, 1 ex., MT, J. Macek lgt. Javorník, Jazevčí NNR (17), 2.vi.2009, 1 ex., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 22.vi.2009, 1 ex., MT, J. Macek lgt. Strání, Javorina NNR (32), 2.vi.2009, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in deciduous forests. **General distribution:** Palaearctic. **Host plants:** *Origanum vulgare*, *Ligustrum vulgare*.

Tenthredo trabeata Klug, 1817

Published record. MACEK (2009): Javorník, Machová NR (23).

Additional material examined. Poteč, Ploščiny NR (2), 22.vi.–23.vii.2006, 3 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 5.vi.2006, 1 ex., MT, J. Macek lgt. Lopeník, Hrubý Mechnáč (9), 5.vi.2006, 1 ex., MT, M. Omelková lgt. Žitková, Hutě NR (10), 25.vi.2006, 1 ex., MT, M. Omelková lgt.; 29.v.2007, 1 ex., MT, J. Macek lgt. Javorník, Jazevčí NNR (17), 10.iv.–2.vi.2009, 3 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in species-rich beech forests, *Petasites* fringes of montane brooks, meadow spring fens, and mesic meadows. **General distribution:** Western Palaearctic. **Host plants:** *Cicerbita alpina*, *Cichorium intybus*, *Crepis biennis*, *Lapsana communis*, *Prenanthes purpurea* (BENEŠ 1987); *Senecio ovatus*, *Petasites hybridus* (both new records).

Tenthredo vespa Retzius, 1783

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Valašské Klobouky, Bílé potoky NR (3), 23.viii.2006, 1 ex., MT, M. Omelková lgt. Žitková, Hutě NR (10), 21.viii.2007, 1 ex., MT, J. Macek lgt. Javorník, Jazevčí NNR (17), 5.viii.2009, 1 ex., MT, J. Macek lgt. Nová Lhota, Vápenky (22), 26.vii.2005, 3 larvae on *Viburnum opulus*, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in tall mesic and xeric scrub, mixed and deciduous forests. **General distribution:** Palaearctic. **Host plants:** Various deciduous shrubs.

Tenthredo zonula Klug, 1817

Published record. MACEK (2009): Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 23.vi.–16.vii.2008, 3 ex., MT, Poteč, Ploščiny NR (2), 22.vi.2006, 1 ex., MT, Žitková, Hutě NR (10), 29.v.–21.viii.2006, 6 ex., MT, Nová Lhota, Vápenky (22), 26.vii.2005, 9 larvae on *Hypericum perforatum*. All J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in mesic meadows. **General distribution:** Western Palaearctic. **Host plant:** *Hypericum perforatum*.

***Tenthredopsis friesei* Konow, 1894**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 3.vi.2008, 1 ex., MT, J. Macek lgt. Poteč, Ploščiny NR (2), 22.vi.–23.vii.2006, 3 ex., MT, J. Macek lgt. Lopeník, Hrubý Mechnáč (9), 5.vi.2006, 2 ex., MT, M. Omelková lgt. Žitková, Hutě NR (10), 25.vi.2006, 2 ex., MT, M. Omelková lgt.; 19.vi.2007, 1 ex., MT, J. Macek lgt. Velká nad Veličkou, Zahrady pod Hájem NNR (14), 2.vi.2009, 1 ex., MT, J. Macek lgt. Javorník, Jazevčí NNR (17, 18), 13.v.–25.vi.2009, 5 ex., MT, J. Macek lgt. Nová Lhota, Hryzlácké Mlýny (19), 22.vi.2009, 1 ex., MT, J. Macek lgt. Strání, Javorina NNR (32), 23.vi.2009, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widespread in mesic meadows.

General distribution: Palaearctic. **Host plants:** Poaceae.

***Tenthredopsis lactiflua* (Klug, 1817)**

(VU)

Material examined. Radějov, Žerotín NM (13), 12.v.2008, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plant:** Unknown.

***Tenthredopsis litterata* (Geoffroy, 1785)**

Published record. MACEK (2009): Kněždub, Čertoryje NNR (15).

Additional material examined. Petrůvka, Kladenka brook (5), 3.vi.2008, 1 ex., MT, J. Macek lgt. Žitková, Hutě NR (10), 25.vi.2006, 1 ex., MT, M. Omelková lgt.; 25.v.–19.vi.2007, 4 ex., MT, J. Macek lgt. Radějov, Žerotín NM (13), 4.vi.2008, 1 ex., MT, J. Macek lgt. Velká nad Veličkou, Zahrady pod Hájem NNR (14), 2.vi.2009, 1 ex., MT, J. Macek lgt. Javorník, Jazevčí NNR (17), 13.v.–25.vi.2009, 6 ex., MT, J. Macek lgt. Nová Lhota, Hryzlácké Mlýny (19), 22.vi.2009, 3 ex., MT, J. Macek lgt. Javorník, Machová NR (23), 18.vi.2007, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widespread in mesic meadows and grassy undergrowth of deciduous and mixed forests. **General distribution:** Palaearctic. **Host plants:** Poaceae.

***Tenthredopsis nassata* (Linnaeus, 1767)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Poteč, Ploščiny NR (2), 6.–22.vi.2006, 3 ex., MT, J. Macek lgt. Valašské Klobouky, Bílé potoky NR (3), 5.–23.vi.2006, 4 ex., MT, J. Macek lgt. Petrůvka, Kladenka brook (5), 3.vi.2008, 1 ex., MT, J. Macek lgt. Lopeník, Hrubý Mechnáč (9), 19.vii.2006, 1 ex., MT, M. Omelková lgt. Žitková, Hutě NR (10), 25.vi.2006, 3 ex., MT, M. Omelková lgt.; 19.vi.2007, 2 ex., MT, J. Macek lgt. Výskovec (12), 22.vii.2007, 1 ex., MT, M. Omelková lgt. Radějov, Žerotín NM (13), 4.vi.2008, 3 ex., MT, J. Macek lgt. Javorník, Jazevčí NNR (17,18), 12.v.–25.vi.2009, 6 ex., MT, J. Macek lgt. Strání, Javorina NNR (32), 23.vi.2009, 2 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widely distributed in meadows and grassy undergrowth of deciduous and mixed forests. **General distribution:** Palaearctic. **Host plants:** Poaceae.

***Tenthredopsis ornata* (Serville, 1823)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Žitková, Hutě NR (10), 25.vi.2006, 1 ex., MT, M. Omelková lgt. Radějov, Radějovská obora – Mandát brook (27), 4.vi.2008, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Western Palaearctic. **Host plants:** *Brachypodium* spp.

***Tenthredopsis scutellaris* (Fabricius, 1804)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23); Radějov, Kútky NR (28).

Additional material examined. Petrůvka, U Petrůvky NM (1), 3.vi.–23.vi.2006, 3 ex. MT, J. Macek lgt. Poteč, Ploščiny NR (2), 23.vii.2006, 2 ex., MT, J. Macek lgt. Lopeník, Hrubý Mechnáč (9), 5.vi.–19.vii.2006, 12 ex., MT, M. Omelková lgt. Žitková, Hutě NR (10), 29.v.–15.vii.2007, 5 ex., MT, J. Macek lgt. Radějov, Žerotín NM (13), 4.vi.–26.vi.2008, 3 ex., MT, J. Macek lgt. Velká nad Veličkou, Zahrady pod Hájem NNR (14), 12.v.–25.vi.2009, 3 ex., MT, J. Macek lgt. Javorník, Jazevčí NNR (17, 18), 13.v.–15.vii.2009, 8 ex., MT, J. Macek lgt. Nová Lhota, Hryzlácké Mlýny (19), 4.vi.–15.vii.2009, 5 ex., MT, J. Macek lgt. Strání, Záhumenice NM (31), 9.vii.2010, 1 ex., MT, J. Macek lgt. Strání, Javorina NNR (32), 3.vi.–6.viii.2009, 6 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Widespread in mesic meadows. **General distribution:** Western Palaearctic. **Host plants:** Poaceae.

***Tenthredopsis sordida* (Klug, 1817)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Poteč, Ploščiny NR (2), 22.vi.2006, 1 ex., MT, J. Macek lgt. Žitková, Hutě NR (10), 25.vi.2006, 2 ex., MT, M. Omelková lgt.; 29.v.2007, 1 ex., MT, J. Macek lgt. Javorník, Jazevčí NNR (17), 12.v.–2.vi.2007, 2 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in mesic meadows. **General distribution:** Western Palaearctic. **Host plant:** *Dactylis glomerata*.

***Tenthredopsis stigma* (Fabricius, 1798)**

Published record. MACEK (2009): Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 3.vi.2008, 1 ex. Radějov, Žerotín NM (13), 12.v.–4.vi.2008, 5 ex. Javorník, Jazevčí NNR (17), 2.vi.2009, 1 ex. Radějov, Kútky NR (28), 4.vi.2008, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in mesic and xeric meadows. **General distribution:** Western Palaearctic. **Host plant:** *Elytrigia intermedia*.

***Tenthredopsis tarsata* (Fabricius, 1804)**

Published records. MACEK (2009): Kněždub, Čertoryje NNR (15); Javorník, Machová NR (23).

Additional material examined. Petrůvka, U Petrůvky NM (1), 3.vi.2008, 1 ex. Petrůvka, Kladenka brook (5), 3.vi.2008, 2 ex. Svatý Štěpán, Chladný vrch NM (8), 16.vi.2010, 1 ex. Javorník, Jazevečí NNR (17), 2.vi.2009, 1 ex. All MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Probably widespread in mesic and xeric meadows. **General distribution:** Western Palaearctic. **Host plant:** *Brachypodium sylvaticum*.

***Tenthredopsis tessellata* (Klug, 1817)**

(VU)

Material examined. Petrůvka, U Petrůvky NM (1), 3.vi.2008, 1 ex., MT, J. Macek lgt.

Distribution and frequency in the Bílé Karpaty PLA: Not assessed for the insufficient material available. **General distribution:** Palaearctic. **Host plants:** *Aira* spp., *Deschampsia cespitosa*.

Discussion and conclusions

In the course of a six-year (2005–2010) field research project, a total of 332 species of Symphyta (Pamphiliidae: 5 spp., Megalodontesidae: 1 sp., Orussidae: 1 sp., Argidae: 16 spp., Diprionidae: 2 spp., Tenthredinidae: 303 spp., Cephidae: 4 spp., Cimbicidae: 1 sp.) were recorded in the Bílé Karpaty PLA. This represents more than a half of the total number of the species of Symphyta recorded in the Czech Republic (*cf.* BENEŠ 1989).

Among the species ascertained in the Bílé Karpaty PLA are many remarkable findings. Twenty-one species are classified in the Red List of threatened invertebrates of the Czech Republic as vulnerable or endangered (MACEK 2005). A considerable number of species was recorded in the study area for the first time in the Czech Republic or Moravia. Some of the previously-published faunistic data on first records and threatened species have already been summarized by MACEK (2009). In the present paper, significant finds of the following species update the check-list of the Symphyta of the Czech Republic: *Eurhadinoceraea amauros*, *Periclista albipennis*, *Nematus umbratus*, *Pachynematus itoi*, *Pristiphora leucopus*, and *Pristiphora subopaca* as first records for the fauna of the Czech Republic, and *Aprosthemina fuscicornis*, *Cladardis hartigi*, *Pristiphora luteipes*, and *Strongylogaster baikalensis* as first records for the fauna of Moravia.

From the viewpoint of biogeography and nature conservation, the most interesting records among the species-rich fauna of the Symphyta of the Bílé Karpaty PLA relate to the Ponto-Mediterranean species that are more or less associated with Pannonian oak-hornbeam forests and restricted to the southern part of the area studied. Most of these species are included in the national Red List of threatened invertebrates (*Empria hungarica*, *Megalodontes panzeri*, *Neurotoma mandibularis*, *Taxonus sticticus*) or are recorded here for the first time in the Czech Republic and still await assessment of their conservation status (*Eurhadinoceraea amauros*, *E. ventralis*, *Heterathrus nigripes*, *H. wuestnei*, *Macrophya parvula*, *Periclista albipennis*).

The field work in the Bílé Karpaty PLA also provided new information on the food plants of Symphyta. *Serratula tinctoria* as a food plant for the as-yet-undescribed larva of *Macrophya parvula* has already been reported by MACEK (2009). *Carpinus betulus* as a food plant for the similarly-undescribed larva of *Sterictiphora longicornis* is published for the first time in the present paper. The correct food plants of *Nematus incompletus* are *Lathyrus pratensis* and *L. vernus* (rather than *Populus tremula* as cited by TAEGER *et al.* 1998). Additional new larval food plant records also include: *Salix aurita* and *S. cinerea* for *Amauronematus sagmarius*; *Geranium sanguineum* for *Macrophya albipuncta*; *Pyrethrum corymbosum* for *Pachyprotasis variegata*; *Ranunculus acris* for *Sciapteryx consobrina*; *Senecio ovatus* and *Petasites hybridus* for *Tenthredo trabeata*.

The relatively high number of species recorded suggests that the regional sawfly fauna of the Bílé Karpaty PLA is remarkably diverse. The present species account is, however, not definitive. Further field work in the area may considerably increase the number of known species, especially if further appropriate collecting methods are used. This pertains in particular to the families Siricidae and Xiphydriidae which are not listed here although their occurrence in the area may be anticipated.

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Souhrn

Širopasí blanokřídlí (Hymenoptera: Symphyta) Chráněné krajinné oblasti a biosférické rezervace Bílé Karpaty.

Práce shrnuje výsledky šestiletého faunisticko-inventarizačního průzkumu širopasých (Hymenoptera, Symphyta) na 33 vybraných lokalitách v CHKO Bílé Karpaty. Průzkum byl prováděn zejména metodou Malaiseho pastí, některé údaje byly získány též smýkáním nebo přímým sběrem a dochováním larev. Celkem bylo v území zjištěno 333 druhů, z nichž 21 je podle Červeného seznamu ohrožených druhů bezobratlých České republiky klasifikováno v kategorii „zranitelný“ (VU) nebo „ohrožený“ (EN), šest druhů je nových pro území ČR (*Eurhadinoceraea amauros*, *Nematus umbratus*, *Periclista albipennis*, *Pachynematus itoi*, *Pristiphora leucopus* a *Pristiphora subopaca*) a čtyři jsou nové pro území Moravy (*Aprosthemina fusicorne*, *Cladardis hartígi*, *Pristiphora luteipes* a *Strongylogaster baikalensis*). Faunu širopasých Bílých Karpat je možno považovat za druhově poměrně bohatou, neboť zde byla zjištěna více než polovina druhů vyskytujících se v ČR. Přesto jsou budoucí nálezy dalších druhů v oblasti pravděpodobné, zejména při použití dalších metod sběru, které by potvrdily výskyt např. zástupců čeledí Siricidae nebo Xiphydriidae, které v tomto článku chybí. Z faunisticko-ochrannářského hlediska lze za nejzajímavější považovat výskyt řady pontomediterránních druhů,

vázaných na teplomilné doubravy a dubohabřiny v jižní části CHKO (např. *Empria hungarica*, *Megalodontes panzeri*, *Neurotoma mandibularis* a *Taxonus sticticus*), zahrnující rovněž i některé z výše zmíněných prvozáložů jak pro ČR, tak i Moravu (např. *Heterathrus wuestnei*, *H. nigripes*, *Eurhadinoceraea ventralis*, *E. amauros*, *Macrophya parvula*, *Periclista albipennis*). Terénní výzkum přinesl i některé nové informace o živných rostlinách širopasých. Poprvé je zde např. identifikována živná rostlina dosud nepopsaných larev pilatky *Sterictiphora longicornis*, kterou je v Bílých Karpatech habr obecný (*Carpinus betulus*). Dále je doplněno či upřesněno spektrum živných rostlin pro druhy *Amauronematus sagmarius*, *Arge fuscipennis*, *Macrophya albipuncta*, *Nematus incompletus*, *Pachyprotasis variegata*, *Sciapteryx consobrina* a *Tenthredo trabeata*.

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Biodiversity of the invertebrates in the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic) – the current state of knowledge

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MALENOVSKÝ I., KMENT P. & KONVIČKA O. 2012: Biodiversity of the invertebrates in the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic) – the current state of knowledge. In: MALENOVSKÝ I., KMENT P. & KONVIČKA O. (eds.): Species inventories of selected insect groups in the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (Czech Republic). *Acta Musei Moraviae, Scientiae biologicae* (Brno) **96(2)** (2011): 897–933. – We review the history of investigations into invertebrates in the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (PLA), which is situated along the Czech-Slovak border in south-eastern Moravia, the Czech Republic, and provide corresponding bibliographical references to principal faunistic information on each systematic group of invertebrates. Despite its relatively small area (715 km², i.e. less than 1% of the area of the Czech Republic), the Bílé Karpaty PLA harbours approximately 35–65% of the range of invertebrate species occurring in the entire Czech Republic, with a significant proportion of those that are threatened, as close study of certain groups testifies. Despite still insufficient or incomplete data for many taxa, the Bílé Karpaty PLA may be considered as a hotspot of invertebrate diversity in the Czech Republic, comparable to only a few other well-preserved and intensively studied natural areas in the country but unique in its geographical situation within the Carpathian mountain system and the geology based on flysch.

Keywords. White Carpathians, Moravia, bibliography, fauna, zoology, entomology, pedobiology, hydrobiology, parasitology, nature conservation, biodiversity hotspot

Introduction

Lying in a region remote from large scientific centres and *a priori* considered as biologically uninteresting and species-poor, the Bílé Karpaty Mts. [= the White Carpathians], situated along the Czech-Slovak border, attracted few studies of their fauna and flora until relatively recently, in the second half of the 19th century (Slovak part) and at the beginning of the 20th (Czech part) (JONGEPIEROVÁ & DEVÁNOVÁ 2008). The first data specific to invertebrates from what is now the Bílé Karpaty Protected Landscape Area and Biosphere Reserve (i.e. the Czech (Moravian) part of the Bílé Karpaty Mts., abbreviated to Bílé Karpaty PLA hereafter) date back to the beginning of the 20th century. They address Lepidoptera (SKALA 1912, 1913; SRDINKO 1913, 1914) and some gall-forming arthropods (BAYER 1914).

In the first half of the 20th century, a number of pioneer collectors contributed to knowledge of the beetle fauna (Coleoptera) in the area, particularly Alois Richter from Valašské Klobouky, who collected beetles and ants, mainly near the Vlárský průsmyk Pass (HRABEC *et al.* 2002; material cited e.g. in ZÁLESKÝ 1939 and M. BOUKAL 1998) and Ladislav Krejčířek from Zlín, whose rich collections of beetles, largely from the northern part of today's Bílé Karpaty PLA, are deposited in the Museum of South-eastern Moravia in Zlín (BEZDĚČKA & TRÁVNÍČEK 2001). In the 1930s and during the German occupation (1939–1945), a few more entomologists, e.g. Ondřej Ginter, Augustin Hoffer and Veleslav Lang, visited the area, particularly its south-western part in the environs of the villages of Javorník and Korytná and the Velká Javořina Mt., and provided the first data on the occurrence of Orthoptera, Hymenoptera, Heteroptera, and Auchenorrhyncha (e.g. ZAVADIL *et al.* 1937; BALTHASAR 1942, 1945, 1946; LANG 1945; HOBERLANDT 1947; HOFFER 1953a,b, 1957, 1958, 1963; M. KOCOUREK 1966; WOLF 1971; HOLUŠA *et al.* 2012).

From 1945 until the 1980s, the Bílé Karpaty once more became an area of only marginal interest to most invertebrate zoologists and entomologists. There were some notable exceptions. Lepidopterologists were engaged in wide-ranging studies throughout south-eastern Moravia (KRÁLÍČEK & GOTTWALD 1984, 1985, 1987; ELSNER *et al.* 1997, 1998). Josef Hubáček addressed the fauna of the broader environs of the town of Uherské Hradiště (situated, however, outside of the administrative borders of the Bílé Karpaty PLA; BEZDĚČKA 1997a). Several excursions, e.g. by the staff of the Department of Entomology of the Moravian Museum, Brno (Jaroslav L. Stehlík, Pavel Lauterer and collaborators) took place as part of their long-term investigations into the Hemiptera of Moravia (e.g. STEHLÍK 1981, LAUTERER 1998). Finally, Adolf Čejchan (Department of Entomology, National Museum, Prague) collected Orthoptera and published on them (ČEJCHAN 1983, 1985, 1986), similarly as Jaroslav Starý did on Diptera: Limoniidae (JAR. STARÝ 1981, 1983, 1986, 1987). Since the legal establishment of the Bílé Karpaty PLA in 1980, the amount of data from both random and systematic field investigations has been increasing and research has steadily become more organized, with the general intention of acquiring an overview of the fauna of the whole area, especially the most valuable parts of it (individual nature reserves). The resulting knowledge was summarized for several groups (Mollusca, Odonata, Heteroptera, Auchenorrhyncha, Coleoptera, Hymenoptera, and Diptera) in a monograph by KUČA *et al.* (1992). A short review of zoological research in south-eastern Moravia was also given by BEZDĚČKA (1996a).

Zoological research began further to intensify after the division of Czechoslovakia into the Czech Republic and Slovakia in 1993. This was stimulated and coordinated by Pavel Bezděčka, who was first employed as a nature protection official for the Uherské Hradiště district council (1991–1996) and later as zoologist and head of the Bílé Karpaty PLA Management (1996–2004). He helped to organize excursions for the Arachnological Section of the Czech Entomological Society in 1995 and 1996 (RŮŽIČKA 1998), three annual excursion meetings of the Czech Entomological Society in 1997–1999 in different parts of the Bílé Karpaty PLA (Radějov, Lopeník and Sidonie), a seminar of Czech and

Slovak dipterists in 2000 at Mikulčin vrch Hill, and a dragonfly specialists' meeting ("Vážky 2003 – 6. odonatologické dny") in 2003 in Veselí nad Moravou. Thus, many entomologists, professional as well as amateur, have become engaged in faunistic research in the area. Much faunistic data was then published in the *Sborník Přírodovědného klubu v Uherském Hradišti*, a newly-established journal, eight volumes of which appeared in 1996–2006 under Bezděčka's editorship. Since the 1990's, molluscs (Vojen Ložek, Michal Horský), harvestmen (Pavel Bezděčka, Leoš Klimeš, Slavomír Stašiov), aculeate Hymenoptera (e.g. Pavel Bezděčka, Antonín Přidal, Dušan Vepřek), true bugs (Petr Kment), leafhoppers, planthoppers and psyllids (Igor Malenovský), flies (e.g. Miloš Černý), and beetles (e.g. Ivo Jeniš, Radomír Láška, Květoslav Resl, Jaromír Strejček, František Urbánek) have also been widely studied. Thanks to interest and logistical and financial support on the part of the Management of the Bílé Karpaty PLA, invertebrate research has continued and extended its focus in recent years to the orthopteroid insects (Jaroslav Holuša, Petr Kočárek, Ondřej Konvička, František Chládek), other groups of Coleoptera (e.g., Petr Boža, Jan Habarta, Pavel Jáchymek, Lubomír Koloničný, Ondřej Konvička, Tomáš Sitek, Jiří Stanovský, and Jiří Ch. Vávra), bark lice (Psocoptera) and dragonflies (Odonata) (Otakar Holuša), selected groups of Diptera (Psychodidae, Tabanidae, Platypezidae) (Jan Ježek, Markéta Omelková, Michal Tkoč) and Hymenoptera (Symphyta) (Jan Macek), together with detailed mapping of Lepidoptera (Jan Uříčář and his team) (JONGEPIEROVÁ & DEVÁNOVÁ 2008, KONVIČKA 2008). A detailed evaluation of some of these arthropod groups, based on faunistic data largely acquired in recent years, is included in this volume of the journal.

Soil fauna, particularly earthworms, small annelids, centipedes, millipedes, terrestrial isopods, and oribatid mites, and to a lesser extent testate amoebae, nematodes and harvestmen as well, have been closely studied in the Bílé Karpaty PLA since the late 1990's by teams from the Institute of Soil Biology of the Biology Centre at the Academy of Sciences of the Czech Republic, České Budějovice (Karel Tajovský, Vladimír Balík, Ladislav Háněl, Václav Pižl, and Josef Starý), the Department of Ecology and Environmental Sciences at Palacký University, Olomouc (Ivan H. Tuf, Jana Tuřová and their students Jan Mikula, Kristýna Pavelková and Jana Štrichelová), and the Department of Botany and Zoology at Masaryk University, Brno (Jiří Schlaghamerský, Klára Kobetičová and Adéla Šídová). This work has taken place within several projects monitoring the development of soil fauna at a restored grassland site on the Výzkum hill near Malá Vrbka (e.g. TAJOVSKÝ *et al.* 2005, 2008a), the impact of grazing on soil fauna (e.g. TAJOVSKÝ *et al.* 2008b), and the biodiversity of orchards in the environs of Starý Hrozenkov and Žitková, as well as being part of inventory surveys of selected forest sites and nature reserves throughout the Bílé Karpaty PLA. Some of these projects are still running and their results will be published later.

Partly due to an absence of large bodies of water, the Bílé Karpaty PLA did not attract much attention on the part of specialists in aquatic invertebrates in the past. The first data on macrozoobenthos (here, invertebrates larger than 1 mm inhabiting the bottom of various freshwater habitats) date back to the 1950's, when large-scale faunistic research into Czechoslovak Ephemeroptera, Plecoptera and Trichoptera was carried out

by the Institute of Entomology of the former Czechoslovak Academy of Sciences and the Faculty of Sciences of the Jan Evangelista Purkyně University (currently Masaryk University), Brno. Ten streams in the area of what is now the Bílé Karpaty PLA and its close vicinity were investigated in 1958 by Stanislav Obr, Jaroslav Raušer and Miloš Zelinka, but the data remained largely unpublished until more recent comparative studies focused on the distribution, biology and bioindicative potential of these aquatic insect groups (LANDA & SOLDÁN 1989, SOLDÁN *et al.* 1998, SOLDÁN & ZAHŘÁDKOVÁ 2000, ZAHŘÁDKOVÁ *et al.* 2009, BOJKOVÁ *et al.* 2011b) and detailed faunistic surveys of the Bílé Karpaty evaluated this material and complemented it with much additional data (BOJKOVÁ *et al.* 2011a, KOMZÁK & CHVOJKA 2011). Macrozoobenthic communities of the Drietomica and Vlára drainage areas were studied by JURAJDA *et al.* (2000, 2007). Recently, hydrobiological research in the Bílé Karpaty PLA (organized by the Department of Botany and Zoology of Masaryk University, Brno) was conducted as part of a comprehensive approach to spring fen communities along ecological gradients in the broader geographical area of the Western Carpathians and has been yielded much interesting data on macroinvertebrates as well as meio- and microfauna (e.g. POULÍČKOVÁ *et al.* 2005, HORSÁK & CERNOHORSKY 2008, BOJKOVÁ & HELEŠIČ 2009, BOJKOVÁ *et al.* 2011a, HÁJKOVÁ *et al.* 2011a, KŘOUPALOVÁ *et al.* 2011).

Parasites of vertebrates have been almost entirely neglected in the Bílé Karpaty PLA, except for the parasites of fish in the Vlára river, which have recently been studied in detail by a team of parasitologists from the Department of Botany and Zoology at Masaryk University, Brno (e.g. PÁTKOVÁ 2006, SÁTKOVÁ 2007), partly as a model system for evaluation of parasite responses to environmental stress (KOŠKOVÁ 2007; PEČÍNKOVÁ 2007; PEČÍNKOVÁ *et al.* 2005, 2007a,b) and for working out the taxonomic identities in a difficult group of Monogenea (MATĚJUSOVÁ *et al.* 2001, 2002; PŘIKRYLOVÁ *et al.* 2008).

After around a century of studies of invertebrates in the Bílé Karpaty Mts., a considerable amount of knowledge has been acquired. The information is, however, largely scattered through a range of special papers, small faunistic contributions and monographs. Many of them are reviewed below. However, the aim of our paper is not to provide an exhaustive bibliography for invertebrates of the Bílé Karpaty PLA (for which many additional references would clearly have to be added) but to offer a survey of the principal sources of information (or at least of smaller ones if comprehensive works are not available for the moment) for each taxonomic group. We hope this may help to evaluate the current state of knowledge of invertebrates in the Bílé Karpaty PLA and, not least, to point out at gaps that may stimulate further research. A relatively large amount of additional data from various groups is probably contained in a “grey zone” as unpublished reports deposited, for example, with the Management of the Bílé Karpaty PLA or as student theses at universities, and has only been partly taken into account here. Unpublished material deposited in private or institutional collections would surely provide useful additional data for some groups, but its evaluation is beyond the scope of this paper.

A systematic review of main sources of information on the invertebrates of the Bílé Karpaty PLA

For practical reasons, the following review is restricted only to the fauna of individual invertebrate groups in the Czech part of the Bílé Karpaty Mts., as more or less defined by the administrative borders of the Bílé Karpaty PLA. References to many other papers dealing solely with the Slovak part of the Bílé Karpaty Mts. are not given here. Some of the latter may, however, be found in KUČA *et al.* (1992) and JONGEPIEROVÁ & DEVÁNOVÁ (2008).

Amoebozoa. Testate amoebae (Testacea, =Arcellinida) in spring fens of the Bílé Karpaty PLA were studied by OPRAVILOVÁ (2005), OPRAVILOVÁ & HÁJEK (2006), and HÁJKOVÁ *et al.* (2011a). BALÍK & TAJOVSKÝ (2008) provided a survey of species living in the soil of grasslands in the area.

Platyhelminthes. Records of two free-living species of Turbellaria: Tricladida were included in hydrobiological surveys (JURAJDA *et al.* 2000, KŘOUPALOVÁ *et al.* 2011). Monogenea, Trematoda and Cestoda parasitizing fish species *Gobio gobio* and *Leuciscus cephalus* in the Vlára river were surveyed in detail by PÁTKOVÁ (2006), and KOŠKOVÁ (2007) and SÁTKOVÁ (2007), respectively. MATĚJUSOVÁ *et al.* (2001) used material of twelve species of *Gyrodactylus* von Nordmann, 1832 (Monogenea: Gyrodactylidae) sampled from six different fish species in the Vlára river to test molecular markers for species-level identification of parasites, while PŘIKRYLOVÁ *et al.* (2008) revised the *Gyrodactylus nemachilii*-like species complex parasitizing *Barbatula barbatula* basing the work partly on material from the same site. The morphology and biology of *Paradiplozoon homoion* (Bychowsky & Nagibina, 1959) (Monogenea: Diplozoidae) on *Gobio gobio* in the Vlára river were the subject of detailed studies by MATĚJUSOVÁ *et al.* (2002), PEČÍNKOVÁ (2007) and PEČÍNKOVÁ *et al.* (2005, 2007a,b). The fauna of the helminthes parasitizing amphibians, reptiles, birds, and mammals in the Bílé Karpaty PLA has never been studied in detail (J. Sitko, pers. comm.). For birds, GROSCHAFT (1969) reported *Leyogonimus postgonoporus* (Neiland, 1951) (Trematoda: Stomylotrematidae) from *Parus major*, *Turdus merula* and *T. philomelos* from Strání-Květná, and KOPŘIVA & TENORA (1961) mentioned *Collyriclum faba* (Bremser, 1831) (Trematoda: Collyriclidae) from *Sturnus vulgaris* from Horní Němčí and Uherský Brod.

Annelida. Small annelids (Enchytraeidae, Naididae *sensu* ERSÉUS *et al.* (2008) and Aelosomatidae) and earthworms (Lumbricidae) in grassland habitats were reviewed by SCHLAGHAMERSKÝ (2008) and PIŽL (2008), respectively. Additional records of earthworms from the Bílé Karpaty PLA were mapped by PIŽL (2002). SCHLAGHAMERSKÝ (2005), SCHLAGHAMERSKÝ & KOBETIČOVÁ (2005, 2006) and SCHLAGHAMERSKÝ *et al.* (2007) focused on the succession of small annelid communities in the course of meadow restoration on arable land and the impact of grazing on soil annelid fauna. SCHLAGHAMERSKÝ (2010) studied assemblages of small annelids in three stands of broad-leaved forest. Records of aquatic Clitellata are included in hydrobiological surveys by JURAJDA *et al.* (2000, 2007), KŘOUPALOVÁ *et al.* (2011), and BOJKOVÁ *et al.* (2011a; in this

paper, collection sites are not explicitly specified but all material cited there from “calcareous fens” comes from the Bílé Karpaty PLA). Some data also appear in papers addressing the Czech aquatic annelid fauna in comprehensive fashion by SCHENKOVÁ *et al.* (2009, 2010).

Mollusca. The taxonomic status of the White Carpathian population of the endemic *Alzoniella slovenica* (Ložek & Brtek, 1964) was revised by BERAN & HORSÁK (2001). The mollusc communities in western Carpathian spring fens, including model localities in the Bílé Karpaty PLA, have been addressed in several ecological and biogeographical papers, e.g. HORSÁK & HÁJEK (2003), HORSÁK *et al.* (2007) and HORSÁK & CERNOHORSKY (2008). General overviews of the molluscs of the Bílé Karpaty PLA are available from HORSÁK (2005) for the spring fen fauna and HORSÁK (2008) for the grassland fauna. All data on the terrestrial mollusc species from the Bílé Karpaty PLA, including those previously published, have been summarized in the form of a distribution atlas (DVOŘÁKOVÁ *et al.* 2011). A survey of aquatic species from the area was published by BERAN & HORSÁK (2002).

Rotifera and Acanthocephala. A poorly studied group. In his monograph on the Czechoslovak fauna of Rotifera, BARTOŠ (1959) explicitly listed only one species, *Lecane arcuata* Harring, 1914 (Eurotatoria: Ploima: Lecanidae), from the area (Luhačovice). An ecological study of moss-dwelling communities of micro-organisms along environmental gradients in spring fens in the western Carpathians by HÁJKOVÁ *et al.* (2011a) is partly based on monogonont Rotifera sampled from a few sites in the Bílé Karpaty PLA. Two species of Acanthocephala, *Acanthocephalus anguillae* (Müller, 1780) and *Pomphorhynchus laevis* (Zoega in Müller, 1776) were found as parasites of fish species *Gobio gobio* and *Leuciscus cephalus* in the Vlára river by PÁTKOVÁ (2006), KOŠKOVÁ (2007) and SÁTKOVÁ (2007).

Nematoda. Assemblages of free-living soil nematodes were studied in the soils of restored grassland sites on the Výzkum hill near Malá Vrbka (HÁNĚL 2002, 2003, 2007) as well as in the Čertoryje National Nature Reserve near Kněždub (HÁNĚL 2008). PÁTKOVÁ (2006), KOŠKOVÁ (2007), and SÁTKOVÁ (2007) recorded four species of Nematoda as endoparasites of the fish species *Gobio gobio* and *Leuciscus cephalus* in the Vlára river.

Tardigrada. Credit for the first, and unique, contribution from the area goes to BARTOŠ (1934), who described a new taxon of Echiniscidae, currently valid as *Pseudechiniscus novaezeelandiae marinae* Bartoš, 1934, from Luhačovice.

Araneae. The results of field excursions by the Arachnological Section of the Czech Entomological Society in 1995–1996 have been summarized by RŮŽIČKA (1998). Spiders of the environs of the villages of Březová and Strání were addressed in the diploma thesis by ŠIMKOVÁ (2000). Additional records have been provided by ŘEZÁČ & KUBCOVÁ (2002; Atypidae: *Atypus piceus* (Sulzer, 1776)), BUCHAR & RŮŽIČKA (2002; Linyphiidae: *Metopobactrus ascitus* (Kluczyński, 1894) and Salticidae: *Synageles lepidus* Kulczyński, 1897), and MACHAČ (2011; Anapidae: *Comaroma simoni* Bertkau, 1889). BUCHAR &

RŮŽIČKA (2002) also included distribution maps for all spider species in the Czech Republic, including all records from the Bílé Karpaty PLA known to date of publication. A general summarizing text on the spider fauna of grasslands in the Bílé Karpaty was published by HULA (2008).

Acari. Most records of mites from the Bílé Karpaty PLA refer to Oribatida which have been sampled at Mikulčín vrch Hill, Starý Hrozenkov, Velká Javořina Mt. and in grasslands in the Čertoryje National Nature Reserve, on Výzkum Hill near Malá Vrbka and in several other meadow and pasture sites throughout the PLA (VANĚK 1957; JOS. STARÝ 2000, 2002, 2007, 2008; all data summarized in MIKO 2012). An ecological paper by JOS. STARÝ (2005) deals with the succession of oribatid mite communities in restored grassland soils on Výzkum Hill. Records of a few gall-forming mite species (Prostigmata: Eriophyidae) from Luhačovice were published by BAYER (1909, 1914) and from the environs of Hluk (situated close to, but outside, the administrative borders of the Bílé Karpaty PLA) by HUBÁČEK (1979). Within a revision of the Zerconidae (Mesostigmata) in former Czechoslovakia, HALAŠKOVÁ (1963, 1969) reported two species, *Prozercon fimbriatus* (C. L. Koch, 1839) and *Zercon peltatus* C. L. Koch, 1836, from Starý Hrozenkov.

Opiliones. The fauna of harvestmen in the Bílé Karpaty Mts. was studied by BEZDĚČKA (e.g. 1996b) and KLIMEŠ (e.g. 1999), including papers on the distribution of two remarkable Pannonian species, *Zachaeus crista* (Brullé, 1832) (BEZDĚČKA 2000a) and *Egaenus convexus* (C. L. Koch, 1835) (BEZDĚČKA 2001). Successional assemblages of harvestmen in restored grassland study plots near Malá Vrbka were surveyed by STAŠIOV *et al.* (2006). Lists of all species of Opiliones known from the Bílé Karpaty PLA, including references to all previously-published papers, were compiled by STAŠIOV & BEZDĚČKA (2008) and BEZDĚČKA (2010).

Pseudoscorpiones. JAGOŠ (2001) recorded six species in his diploma thesis. No records of pseudoscorpiones have been published from the Bílé Karpaty PLA to date (F. Štáhlavský, pers. comm.).

Chilopoda. Faunistic data on centipedes from ten grassland localities were summarized by TAJOVSKÝ (2008b). PAVELKOVÁ (2008) studied centipede communities in detail at eight forest sites. Faunistic surveys of the group were made in a number of additional forest and grassland localities as part of various projects but the results still await publication in a form of a paper (see also LAŠKA 2004 and TUFOVÁ *et al.* 2008).

Diplopoda. An account of the grassland fauna in eleven localities throughout the Bílé Karpaty PLA was provided by TAJOVSKÝ (2008c). More data are available from sampling at a number of additional sites which have not yet been summarized in published form (*cf.* TUFOVÁ *et al.* 2008).

Crustacea. Terrestrial isopods (Oniscidea) are a relatively well-studied group in the Bílé Karpaty PLA, thanks to recent contributions by MIKULA (2004), MIKULA & TUF (2004) and ŠTRICHELLOVÁ (2008), who surveyed the fauna of a total of eight forest reserves (see

also MIŠURCOVÁ 2007), TAJOVSKÝ (2008a) who sampled and evaluated the material from eight grassland localities, and ŠTRICHELOVÁ (2010) who provided inventories of 26 localities, covering both forest and grassland habitats. Aquatic Crustacea are relatively less well-known in the region. *Asellus aquaticus* (Linnaeus, 1758) (Isopoda: Asellota) and *Gammarus fossarum* Koch, 1835 (Amphipoda) were recorded by a few hydrobiological surveys (JURAJDA *et al.* 2000, 2007; KŘOUPALOVÁ *et al.* 2011). *Astacus astacus* (Linnaeus, 1758) is the only crayfish (Decapoda) species currently occurring in the Bílé Karpaty PLA (ŠTAMBERGOVÁ *et al.* 2009). Some large branchiopods (Anostraca, Notostraca), namely *Branchipus schaefferi* Fischer, 1834 and *Triops cancriformis* (Bosc, 1801), were recently found near the border of the Bílé Karpaty PLA, in the environs of Lipov and Tvarožná Lhota (B. Jagoš, G. Čamlík & J. Sychra, unpublished data). NOVÁČEK (2010) sampled and evaluated material from five spring fen sites located in the Bílé Karpaty PLA in the course of a broader study of Ostracoda spring fen communities in the Western Carpathians. Other meiobenthic groups (e.g. Copepoda: Harpacticoida) inhabiting spring fens are currently being studied by the Department of Botany and Zoology of Masaryk University, Brno. Planktonic Cladocera and Copepoda were surveyed at ten localities in the south-western and north-eastern parts of the Bílé Karpaty PLA by M. Zhai (Omesová 1998, 1999, unpublished manuscript deposited with the Management of the Bílé Karpaty PLA, Luhačovice).

Protura. RUSEK (1966) described *Acerentomon fageticola* Rusek, 1966 as new for science, based on soil samples collected in the beech forest at Velká Javořina Mt. This is probably the only published record of Protura from the Bílé Karpaty PLA.

Archaeognatha. As part of a review of the Czech Archaeognatha, KRATOCHVÍL (1945) reported two species from the current Bílé Karpaty PLA: *Lepismachilis notata* Stach, 1919 from Nedašova Lhota, Bylnice and Hostětín and *L. γ-signata* Kratochvíl, 1945, which he described as new for science based on material from several localities in Bohemia and Moravia, including Louka near Blatnice, Hostětín and Bylnice.

Ephemeroptera. Records from several streams in the Bílé Karpaty PLA are scattered in monographs that address the mayfly fauna of the Czech Republic in comprehensive fashion (LANDA 1969, LANDA & SOLDÁN 1989, SOLDÁN *et al.* 1998, SOLDÁN & ZAHŘÁDKOVÁ 2000) and hydrobiological studies evaluating the entire macrozoobenthic communities in some localities (JURAJDA *et al.* 2000, 2007; KŘOUPALOVÁ *et al.* 2011).

Odonata. The history of investigation of dragonflies in the Bílé Karpaty PLA has been reviewed by BEZDĚČKA (1999). Faunistic data available from the Bílé Karpaty PLA were included in a monograph of the Czech fauna by DOLNÝ *et al.* (2008).

Plecoptera. A detailed species account of stoneflies based on rich material from throughout the Bílé Karpaty PLA is provided by BOJKOVÁ *et al.* (2012).

Orthoptera, Blattaria, Mantodea, and Dermaptera. A general overview of the fauna of all these groups in the Bílé Karpaty Mts. was published by HOLUŠA *et al.* (2008) while HOLUŠA *et al.* (2012) provide a detailed list of species in the Czech part of the mountains with corresponding collecting data and references to previous publications.

Thysanoptera. No records of thrips from the Bílé Karpaty PLA appear in the literature. Nevertheless, data relating to more than sixty species based on several field excursions by Jiří Hřebíček (formerly Department of Zoology, Masaryk University, Brno) in 1998 into the south-western part of the Bílé Karpaty are contained in an unpublished report (Hřebíček 1998, unpublished manuscript deposited with the Management of the Bílé Karpaty PLA, Luhačovice).

Psocodea. Free-living bark lice have recently been sampled at several localities in the Bílé Karpaty PLA by Otakar Holuša. Some of this material served as a basis for his dissertation thesis (HOLUŠA 2003); no data from the area have, however, yet been formally published. Similarly, there are no published records for parasitic lice (Phthiraptera). Only two species of Ischnocera, *Craspedorrhynchus haematopus* (Scopoli, 1763) and *Degeeriella vagans* (Giebel, 1874), collected from *Accipiter gentilis* in Valašské Klobouky on 28 September 1949, are on record, deposited in the F. Balát collection in the Moravian Museum, Brno (O. Sychra, pers. comm.).

Hemiptera. A detailed review of jumping plant-lice (Sternorrhyncha: Psylloidea) in the Bílé Karpaty PLA is provided by MALENOVSKÝ & LAUTERER (2012a), while leafhoppers and planthoppers (Auchenorrhyncha) were worked up by MALENOVSKÝ & LAUTERER (2012b), and true bugs (Heteroptera) by KMENT & BAŇAŘ (2012), including reviews of previously published literature from the area. Whiteflies, aphids and scale insects (Sternorrhyncha: Aleyrodoidea, Aphidoidea and Coccoidea) have been insufficiently studied and are addressed only in solitary records: e.g. BAUDYŠ (1951) reported galls of *Planchonia fimbriata* (Boyer de Fonscolombe, 1834) (Coccoidea: Asterolecaniidae) on *Leucanthemum vulgare* agg. from “Kopanice NW of Bojkovice”; P. STARÝ (2006) provides some data on aphids as host-parasitoid (Hymenoptera: Braconidae) records e.g. from Javorník, Radějov and Strážnice; and gall-forming Hemiptera from the environs of Hluk (situated close to, but outside, the administrative borders of the Bílé Karpaty PLA), including some aphid species, were listed by HUBÁČEK (1979).

Megaloptera. Only one species, *Sialis fuliginosa* Pictet, 1836, has been recorded in the Bílé Karpaty Mts. (JURAJDA *et al.* 2000, ŠEVČÍK 2008, KŘOUPALOVÁ *et al.* 2011).

Neuroptera. JONGEPIEROVÁ *et al.* (1992) cite *Libelloides macaronius* (Scopoli, 1763) from Kněždub, Čertoryje NNR, ŠEVČÍK (1997) recorded *Sisyra terminalis* Curtis, 1854 (Sisyridae) from Strážnice and ŠEVČÍK (2003) listed *Coniopteryx lentiae* Aspöck & Aspöck, 1964 (Coniopterygidae) from Radějov, Žerotín NR. Available data on Neuroptera from the Bílé Karpaty PLA were summarized by ŠEVČÍK (2008); an additional record of *Osmylus fulvicephalus* (Scopoli, 1763) was published by KŘOUPALOVÁ *et al.* (2011).

Strepsiptera. BATELKA & STRAKA (2005) recorded *Xenos vesparum* Rossi, 1793 parasitizing *Polistes bischoffi* Weyrauch, 1937 from the environs of Nová Lhota-Vápenky. Three species parasitizing planthoppers and leafhoppers, namely *Elenchus tenuicornis* (Kirby, 1815), *Halictophagus agalliae* Abdul-Nour, 1971, and *Stenocranophilus quadratus* Pierce, 1914, have also recently been found in the area (I. Malenovský, unpublished data).

Coleoptera. Data on beetles from the Bílé Karpaty PLA are largely scattered in literature, often as parts of broadly-conceived faunistic papers. A general overview of the grassland beetle fauna in the Bílé Karpaty, including the most noteworthy records and references to published works, was compiled by KONVIČKA & J. CH. VÁVRA (2008) and RESL (2008). Since then, several additional papers with faunistic data on terrestrial beetles from the area have been published, e.g. LESEIGNEUR & MERTLIK (2007), JUŘENA *et al.* (2008), VESELÝ *et al.* (2009), KONVIČKA (2010), BENEDIKT *et al.* (2010), KONVIČKA & ČAGÁNEK (2011), RAPUZZI *et al.* (2011), and J. CH. VÁVRA *et al.* (2011). Ground beetles (Carabidae) have received special attention from several entomologists active locally since the 1980's and constitute one of the best-studied beetle groups in the area (HORAL *et al.* 2006, RESL 2008), even if many records still remain unpublished. Extensive results of faunistic surveys of phytophagous beetles (Chrysomelidae, Curculionoidea) conducted by Jaroslav Strejček in 1990's also remain unpublished. Finally, TRÁVNÍČEK *et al.* (2012), M. STRAKA *et al.* (2012), and KONVIČKA (2012) address nearly all the families of aquatic beetles in the Bílé Karpaty PLA in detail.

Hymenoptera. A general overview of the fauna of Symphyta in the grassland habitats of the Bílé Karpaty was written by MACEK (2008), who has also provided a detailed account of all available records of this group from the area, based on an intensive field survey in recent years (MACEK 2012). Information on parasitic and aculeate groups of Hymenoptera is more scattered and, in general, less complete. A few data on Diapriidae and Proctotrupidae from the Velká Javořina Mt. and Strážnice are contained in TOMŠÍK (1942, 1946), MASNER (1957), and MACEK (2007). Galls of *Diplolepis rosae* (Linnaeus, 1758) (Cynipoidea: Cynipidae) were reported by BAYER (1914) from Luhačovice. Published records of Chalcidoidea are based almost entirely on collections by A. Hoffer and refer particularly to Encyrtidae (e.g. HOFFER 1953a,b, 1957, 1958, 1963), with single records for Chalcididae (BOUČEK 1951) and Pteromalidae (BOUČEK 1968). No record seems to have been published for Ichneumonidae and material of this family from the Czech part of the Bílé Karpaty Mts. is only sparsely represented even in the collections (K. Holý, pers. comm.). For the Braconidae, several records from the environs of Javorník, Radějov and Strážnice are included in papers by ŠNOFLÁK (1950, 1953) and P. STARÝ (1961a,b, 1962, 1971, 2006). Ants (Formicidae) have been studied by Pavel Bezděčka since the 1970's with the emphasis on species inventories in small-scale protected areas (BEZDĚČKA 1992, 1996c, 1997b, 2000b, 2008). BEZDĚČKA & BEZDĚČKOVÁ (2010) summarized the current state of knowledge of the ant fauna in the Bílé Karpaty Mts., including references to previously-published papers and a list of species known to date from the area. Bees (Apidae *sensu lato*) in the Czech part of the Bílé Karpaty PLA were addressed by PŘIDAL (1998), who also discussed the occurrence of selected noteworthy species (PŘIDAL 2008); additional records were appended by PŘIDAL (1999, 2001, 2004), PŘIDAL & TKALCŮ (2003), J. STRAKA *et al.* (2004), BOGUSCH *et al.* (2009) and PŘIDAL & KOMZÁKOVÁ (2009) but some additional faunistic data clearly still remain unpublished in the collections. Other groups of Aculeata in the Bílé Karpaty PLA have been more or less neglected (at least in literature), except for a few historical data available for Crabronidae and Sphecidae (ZAVADIL *et al.* 1937), Chrysididae

(BALTHASAR 1946), Pompilidae (WOLF 1971), and Mutillidae (BOGUSCH 2006), and several first records for the Czech or Moravian fauna (J. STRAKA 2000; VEPŘEK 2000a,b, 2001a,b; BOGUSCH *et al.* 2007).

Trichoptera. A detailed review of caddisflies with extensive data from all over the Bílé Karpaty PLA, based on a recent field survey, is given by KOMZÁK & CHVOJKA (2012).

Lepidoptera. All data on Lepidoptera from both Czech and Slovak parts of the Bílé Karpaty Mts. acquired in the course of a long history of collecting in the area were summarized in a local checklist of the group by GOTTWALD & BĚLÍN (2001). This also includes extensive information from regional monographs on the Lepidoptera fauna of south-eastern Moravia by KRÁLÍČEK & GOTTWALD (1984, 1985, 1987) and ELSNER *et al.* (1997, 1998), as well as the results of excursion meetings of the Czech Entomological Society (ŠUMPICH *et al.* 1999, VRABEC & FELIX 2000). Results of a systematic mapping project concentrating on 132 species of butterflies and European-level protected moth species throughout the Bílé Karpaty PLA in 2003–2006 were published by HORAL *et al.* (2006). UŘIČÁŘ (2008) summarized the history of investigation of Lepidoptera in the Bílé Karpaty and the current state of populations of protected species. Some additional new records have been provided by SITEK (2008), J. VÁVRA *et al.* (2008), ŠUMPICH *et al.* (2010, 2011), and GOTTWALD *et al.* (2011).

Mecoptera. ŠEVČÍK (1999, 2008) listed five species of the genus *Panorpa* Linnaeus, 1758 from the environs of Radějov and Horní Němčí.

Siphonaptera. ROSICKÝ (1957) reported *Hystrichopsylla talpae* (Curtis, 1826) from Luhačovice and Javorník and DUDICH (2001) included a record of *Ctenophthalmus* (*Euctenophthalmus*) *congener* (Rothschild, 1907) from Strání-Květná. Fleas have been an insufficiently studied group in the Czech part of the White Carpathian Mts., even if a few further records from Luhačovice and Strání-Květná remain unpublished (A. Dudich, pers. comm.).

Diptera. Data on Diptera are largely fragmentary and have never been summarized (see OMELKOVÁ *et al.* 2008). Detailed species accounts based on recent extensive research in the Bílé Karpaty PLA are available only for the families Psychodidae (JEŽEK & OMELKOVÁ 2012a) and Tabanidae (JEŽEK & OMELKOVÁ 2012b). Less complete but prolific data also exist for Limoniidae (JAR. STARÝ 1981, 1983, 1986, 1987, 1992, 1993, 2004, 2006, 2007, 2009a, 2011; STARÝ & MENDEL 1984; STARÝ & REUSCH 2009), Agromyzidae (B. STARÝ 1930; ČERNÝ 1999, 2001, 2004; ČERNÝ & VLK 2001, 2004), and Scathophagidae (ŠIFNER 2006, 2011a,b). Information concerning the remaining families mainly consists of solitary records: Cecidomyiidae (BAYER 1914, VIMMER 1936, HUBÁČEK 1979, SKUHRAVÁ 1981), Ceratopogonidae (CHVÁLA *et al.* 1980), Chloropidae (ROHÁČEK 1996), Coenomyiidae (BOSÁK 1996), Drosophilidae (MÁCA 1977), Keroplatidae (MARTINOVSKÝ & ŠEVČÍK 1997), Lonchopteridae (BARTÁK 1986), Psilidae (MARTINEK 1985), Stratiomyidae (HRBÁČEK 1945, NERUDOVA & KOVAC 2008), Syrphidae (OMELKOVÁ *et al.* 2008), and Trichoceridae (JAR. STARÝ 1999). Larvae of Diptera were also listed in a couple of hydrobiological surveys engaged upon studies of whole

macroinvertebrate benthic communities (JURAJDA *et al.* 2000, 2007; KŘOUPALOVÁ *et al.* 2011). Unpublished data are available for Sciomyzidae (21 spp.), Stratiomyidae (7 spp.), Conopidae (2 spp.) and Coenomyiidae (1 sp.) collected during field excursions in 1998–1999 by J. Nerudová (Nerudová 1998, 1999, unpublished manuscript deposited with the Management of Bílé Karpaty PLA, Luhačovice). A faunistic survey of Platypezidae in the area was begun in 2011 (M. Tkoč, pers. comm.).

Discussion and conclusions

It emerges clearly from this history of investigations that current knowledge of individual invertebrate groups in the Bílé Karpaty PLA is somewhat patchy. While there are numerous data available for some groups in the form of extensive annotated lists of species (e.g. for Orthoptera; Plecoptera; Hemiptera: Psylloidea, Auchenorrhyncha and Heteroptera; Trichoptera; Lepidoptera; aquatic Coleoptera; Hymenoptera: Symphyta; and Diptera: Psychodidae and Tabanidae) or distribution atlases (for Mollusca and parts of Lepidoptera and Coleoptera: Carabidae), some others have been studied insufficiently or not at all (e.g. Porifera; Cnidaria; Bryozoa; Nemertea; some groups of Platyhelminthes; Gastrotricha; Rotifera; Nematomorpha; Tardigrada; Symphyla; Paupoda; Collembola; Protura; Diplura; Zygentoma; Phthiraptera; Hemiptera: Coccoidea, Aphidoidea and Aleyrodoidea; Raphidioptera; Siphonaptera; some groups of Hymenoptera (e.g. Ichneumonidae); many groups of Diptera). For several other groups, data are currently available only in the form of unpublished manuscripts or as published papers that lack important information appropriate to faunistic purposes (e.g. abstracts from scientific meetings and ecological papers lacking basic data on the material studied) and they would merit further attention and preparation for publication in the future.

The current knowledge of biodiversity of the invertebrates, including the numbers of species known from the Bílé Karpaty PLA, is summarized for selected groups (those for which it was meaningful to enumerate such statistics) in Appendix, Table 1. It may also help to assess the importance of the Bílé Karpaty for the conservation of invertebrate biodiversity within the context of the Czech Republic. Despite its relatively small area (715 km², i.e. less than 1% of the area of the Czech Republic), the Bílé Karpaty PLA harbours approximately 35–65% of the range of invertebrate species occurring in the Czech Republic, with a significant proportion of those that are threatened, as close study of certain groups testifies. The Bílé Karpaty PLA may thus be considered one of the hotspots of invertebrate diversity in the Czech Republic, comparable to only a few other well-preserved and well-studied areas: the Pálava Biosphere Reserve (LAŠTŮVKA 1994; ROZKOŠNÝ & VAŇHARA 1995a,b, 1996, 1998, 1999; OPRAVILOVÁ *et al.* 1999; BRYJA *et al.* 2005) and the Podyjí National Park (BARTÁK & KUBÍK 2006, ŠUMPICH 2011, ŠKORPIK *et al.* 2011) in southern Moravia, the Novohradské hory Mts. in southern Bohemia (PAPÁČEK 2002, 2003, 2004), or the Kokořínsko Protected Landscape Area (BERAN 2006) and the Jizerské hory Mts. and Frýdlant region (VONIČKA & PREISLER 2008, 2009) in central/northern Bohemia. In contrast to all these areas, the Bílé Karpaty PLA is,

however, unique in being a part of the Carpathian mountain system that is based on flysch. This uniqueness partly pertains also to the invertebrate fauna.

Not surprisingly, investigations of invertebrates in the Bílé Karpaty PLA have also led to discoveries of species new to science. Altogether 35 species-group taxa have been described solely or partly on the basis of type material collected in the Bílé Karpaty PLA; twenty-three of them are still valid (Appendix, Table 2; BEZDĚK 2011, ŠIFNER 2011b, OMELKOVÁ & JEŽEK 2012 a,b). Although most of them are currently known from beyond the area, this highlights to the necessity of considering the Bílé Karpaty an important type locality/region and protecting it.

The Bílé Karpaty PLA has long been perceived in the context of biodiversity conservation, particularly as a region which has an outstandingly species-rich flora (JONGEPIER & JONGEPIEROVÁ 2006, GRULICH 2008, OTÝPKOVÁ *et al.* 2011). The grassland vegetation, in particular, is one of the most species-rich small-scale plant communities in Europe (KLIMEŠ 2008, JONGEPIEROVÁ 2008). It now appears that the invertebrate fauna of the region is remarkably diverse as well. It should be noted here that this pertains not only to the characteristically species-rich grasslands (although these are a key habitat for a wide array of species in certain groups, e.g. Lepidoptera, Hemiptera, Orthoptera, and Hymenoptera, *cf.* KONVIČKA 2008), but also to forests (harbouring a species-rich and interesting fauna of molluscs, beetles, soil fauna, etc.) and aquatic habitats, particularly spring fens and small streams, the importance of which has been overlooked until recently (HÁJEK *et al.* 2005, POULÍČKOVÁ *et al.* 2005, HORSÁK & CERNOHORSKY 2008). The concentration of so many species in a relatively small area may be explained by its specific geology (largely based on flysch), relief and hydrology, favourable geographical situation, relatively warm climate, post-glacial history, as well as traditional land use (HORSÁK *et al.* 2007, HORSÁK & CERNOHORSKY 2008, LAŠTŮVKA *et al.* 2008, HÁJKOVÁ *et al.* 2011b, KONVIČKA *et al.* 2011, OTÝPKOVÁ *et al.* 2011).

Clearly, much faunistic work on invertebrates in the Bílé Karpaty remains to be done. Beside basic research on the faunistics, taxonomy, and the ecology of individual invertebrate taxonomical groups or communities, practical studies addressing conservation biology and habitat management for invertebrates are much needed to conserve the outstanding natural values of the Bílé Karpaty, including populations of endangered species, for the future.

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Souhrn

Biodiverzita bezobratlých Chráněné krajinné oblasti a biosférické rezervace Bílé Karpaty – současný stav poznání.

Výzkum bezobratlých živočichů v Chráněné krajinné oblasti a biosférické rezervaci Bílé Karpaty započal relativně pozdě. První publikované údaje se týkaly motýlů a hálkotvorného hmyzu (1909–1914). Zájem o Bílé Karpaty se zvýšil přechodně pouze během 30. let a 2. světové války, k trvalému růstu prací dochází až po vyhlášení CHKO v r. 1980 a zejména po osamostatnění Slovenska v r. 1993. V článku podáváme stručný přehled historie výzkumu bezobratlých na moravské straně Bílých Karpat, včetně výčtu a bibliografických odkazů na nejvýznamnější práce (nebo alespoň drobnější články a stati, pokud souhrnná díla dosud nebyla publikována) pro jednotlivé taxonomické skupiny. Současná znalost fauny jednotlivých skupin bezobratlých v Bílých Karpatech je značně nerovnoměrná. Zatímco pro některé skupiny jsou veškeré dostupné údaje z oblasti zpracovány do formy obsáhlých komentovaných seznamů druhů (např. pro rovnokřídlé, pošvatky, mery, křísy, ploštice, chrostíky, motýly, vodní brouky, širopasé blanokřídlé, koutule a ovády) nebo atlasů rozšíření (suchozemští plži, vybraní motýli a stěvlíci), pro mnoho jiných taxonů jsou dosud fragmentární (např. většina dvoukřídlých a blanokřídlých), nepublikované (např. mandelinky, nosatci) nebo zcela chybí (např. chvostoskoci a lumci). Přestože CHKO Bílé Karpaty (715 km²) zabírá méně než 1 % plochy ČR, dosahují počty zjištěných druhů bezobratlých v dobře prostudovaných skupinách cca 35–65 % všech druhů známých z ČR, s významným podílem taxonů uvedených v červeném seznamu (Appendix, Tabulka 1). Dosud bylo z Bílých Karpat popsáno 35 nových druhů pro vědu, 23 z nich je dosud platných (Appendix, Tabulka 2). Bílé Karpaty, dosud známé především díky druhově bohaté flóře, tak jednoznačně představují i významné centrum biodiverzity bezobratlých živočichů v ČR. Nejedná se pouze o faunu druhově bohatých luk a pastvin, které jsou vlajkovými biotopy Bílých Karpat, ale významnými stanovišti jsou zde rovněž prameniště, drobné vodní toky a zachované lesní porosty. Koncentrace takového množství druhů souvisí se specifickým flyšovým geologickým podkladem, reliéfem a vodním režimem, příhodnou geografickou polohou, relativně teplým klimatem, postglaciálním vývojem a rovněž tradičními způsoby obhospodařování krajiny.

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APPENDIX

Table 1. Numbers of species recorded in the Bílé Karpaty PLA compared to numbers known from the entire Czech Republic and numbers of species included in the Red List of threatened invertebrates in the Czech Republic (FARKAČ *et al.* 2005) for selected invertebrate groups.

Abbreviations:

n/a	not applicable;
Spp BK	number of species recorded from the Bílé Karpaty PLA;
Spp CZ	number of species known from the entire Czech Republic;
RL BK	number of species included in the “Red List of threatened invertebrates of the Czech Republic” and recorded in the Bílé Karpaty PLA;
RL CZ	number of species included in the “Red List of threatened invertebrates of the Czech Republic”;
IR BK	intensity of faunistic research for a group in the Bílé Karpaty PLA;
References BK	references to the fauna of the Bílé Karpaty PLA;
References CZ	references to the fauna of the Czech Republic.

Table 2. Species-group taxa described as new for science from the present Bílé Karpaty PLA, with information on their current taxonomic status and localities of the type material. Data extracted from BEZDĚK (2011), updated.

Abbreviations: HT – holotype, PT – paratype, ST – syntype.

GROUP	Spp		%	RL		%	IR		References	
	BK	CZ		BK	CZ		BK	CZ		
Amoebozoa: Testacea	136	?	?	n/a	n/a	n/a	medium	Opravilová (2005) BALIK & TAJOVSKÝ (2008)	BALIK & TAJOVSKÝ (2008)	
Platyhelminthes: Tricladida	2	19	11	2	8	25	low	JURAJDA <i>et al.</i> (2000) KŘOUPALOVÁ <i>et al.</i> (2011)	KUBÍČEK & OPRAVILOVÁ (2005)	
Mollusca	131	247	53	86	134	64	high	DVOŘÁKOVÁ <i>et al.</i> (2011): terrestrial species BERAN & HORSÁK (2002): aquatic species	HORSÁK <i>et al.</i> (2010)	
Annelida: Enchytraeidae	57	ca. 70	81	n/a	n/a	n/a	high	SCHLAGHAMERSKÝ (2008, 2010) BOJKOVÁ <i>et al.</i> (2011b)	Schlaghamerský (unpubl.)	
Annelida: Lumbricidae	24	52	46	1	9	11	medium	PIŽL (2002, 2008)	PIŽL (2002)	
Annelida: aquatic Clitellata (excl. Enchytraeidae, Hirudiniidae and Lumbricidae)	7	87	8	1	22	5	low	SCHENKOVÁ <i>et al.</i> (2010) BOJKOVÁ <i>et al.</i> (2011a)	SCHENKOVÁ <i>et al.</i> (2010)	
Annelida: Hirudimida	4	24	17	2	8	25	low	SCHENKOVÁ <i>et al.</i> (2009)	SCHENKOVÁ <i>et al.</i> (2009)	
Nematoda (free-living species)	116	501	23	5	45	11	low	HÁNĚL (2008)	HÁNĚL (1999)	
Chelicerata: Araneae	196	857	23	?	209	?	medium	HULA (2008)	ŘEZÁČ (2011)	
Chelicerata: Acari: Oribatida	151	528	29	0	13	0	medium	STARÝ (2002, 2007, 2008), Miko (2012)	MIKO (2012)	
Chelicerata: Opiliones	24	37	65	5	8	63	high	BEZDĚČKA (2010)	BEZDĚČKA (2011)	
Chelicerata: Pseudoscorpiones	6	38	16	0	10	0	low	JAGOŠ (2001)	CHRISTOPHOŘOVÁ <i>et al.</i> (2011)	
Chilopoda	37	65	56	1	4	25	high	TAJOVSKÝ (2008b) TUFOVÁ <i>et al.</i> (2008)	TUF & LAŠKA (2005)	
Diplopoda	34	77	44	1	9	11	high	TAJOVSKÝ (2008c) TUFOVÁ <i>et al.</i> (2008)	TAJOVSKÝ (2001), KOCOUREK (2003); TAJOVSKÝ & MLEINEK (2007)	
Crustacea: Cladocera	12	ca. 100	12	0	4	0	low	OMESOVÁ (1999, unpubl. ms.)	PETRUSEK (2005)	
Crustacea: Copepoda	14	ca. 82	17	0	5	0	low	OMESOVÁ (1999, unpubl. ms.)	KOPECKÝ <i>et al.</i> (1999)	

GROUP	Spp		%		RL		%		IR		References	
	BK	CZ	BK	CZ	BK	CZ	BK	CZ	BK	CZ	BK	CZ
Crustacea: Decapoda	1	6	17	2	1	2	50	high	high	ŠTAMBERGOVÁ <i>et al.</i> (2009)	ŠTAMBERGOVÁ <i>et al.</i> (2009)	
Crustacea: Isopoda: Oniscidea	16	43	37	7	1	7	14	high	high	TAJOVSKÝ (2008a)	FLASAROVÁ (2000)	
Crustacea: Ostracoda	6	83	7	13	1	13	8	low	low	ŠTRICHELOVÁ (2010)	SASKA (2007)	
Insecta: Archaognatha	2	8	25	8	2	8	25	low	low	NOVÁČEK (2010)	KOPECKÝ (2001)	
Insecta: Ephemeroptera	40	107	37	52	4	52	8	medium	medium	NOVÁČEK (2010)	NOVÁČEK (2010)	
Insecta: Odonata	40	73	55	44	14	44	32	high	high	KRATOCHVIL (1945)	RUSEK (2005)	
Insecta: Plecoptera	36	100	36	73	7	73	10	high	high	SOLDÁN & ZAHŘÁDKOVÁ (2000)	ZAHŘÁDKOVÁ <i>et al.</i> (2009)	
Insecta: Orthoptera	49	98	50	29	5	29	17	high	high	Zahřádková (pers. comm.)		
Insecta: Blattaria	4	11	36	1	0	1	0	medium	medium	DOLNÝ <i>et al.</i> (2008)	DOLNÝ <i>et al.</i> (2008)	
Insecta: Mantodea	1	1	100	1	1	1	100	high	high	BOJKOVÁ <i>et al.</i> (2012a)	RAUŠER (1977)	
Insecta: Dermaptera	4	7	57	2	0	2	0	medium	medium	HOLUŠA <i>et al.</i> (2012)	BOJKOVÁ <i>et al.</i> (2011b)	
Insecta: Thysanoptera	63	ca. 280	23	8	1	8	13	low	low	HOLUŠA <i>et al.</i> (2012)	KOČÁREK <i>et al.</i> (2005)	
Insecta: Hemiptera: Psylloidea	85	130	65	53	17	53	32	high	high	Hřebíček (1998, unpubl. ms.)	KOČÁREK <i>et al.</i> (2005)	
Insecta: Hemiptera: Auchenorrhyncha	352	572	62	235	86	235	37	high	high	MALENOVSKÝ & LAUTERER (2012a)	MALENOVSKÝ & MALENOVSKÝ (unpubl.)	
Insecta: Hemiptera: Heteroptera	501	865	58	260	62	260	12	high	high	MALENOVSKÝ & LAUTERER (2012b)	MALENOVSKÝ & LAUTERER (2010)	
Insecta: Megaloptera	1	4	25	2	0	2	0	low	low	KMENT & BAŇAR (2012)	KMENT & BAŇAR (2012)	
Insecta: Neuroptera	11	88	13	25	3	25	12	low	low	ŠEVČÍK (2008)	ZELENÝ (2005a)	
Insecta: Strepsiptera	4	12	33	9	2	9	22	low	low	ŠEVČÍK (1997, 2003, 2008)	JEDLIČKA <i>et al.</i> (2004)	
Insecta: Coleoptera: Carabidae	267	518	52	174	?	174	?	high	high	ŠEVČÍK (2010)	ŠEVČÍK (2010)	
										present paper	BATELKA <i>et al.</i> (2005)	
										RESL (2008)	VESELÝ <i>et al.</i> (2005)	

GROUP	Spp		%		RL		%		IR		References	
	BK	CZ	BK	CZ	BK	CZ	BK	CZ	BK	CZ	BK	CZ
Insecta: aquatic Coleoptera (excl. Dryopidae, Heteroceridae, Limnichiidae and Scirtidae)	139	351	40	128	27	128	21	high	high	KONVIČKA (2012), STRAKA <i>et al.</i> (2012), TRÁVNÍČEK <i>et al.</i> (2012)	D. S. BOUKAL <i>et al.</i> (2007)	
Insecta: Coleoptera: Cerambycidae	125	213	59	63	21	63	33	high	high	Konvička (unpubl.)	SLÁMA (2006), SABOL (2009), WALLIN <i>et al.</i> (2009), RAPUZZI <i>et al.</i> (2011)	
Insecta: Hymenoptera: Symphyta	333	688	48	113	30	113	27	high	high	MACEK (2012)	Macek (unpubl.)	
Insecta: Hymenoptera: Formicidae	67	110	61	31	9	31	29	high	high	BEZDĚČKA (2008, 2010)	WERNER & WIEZIK (2007), PECH (2010)	
Insecta: Hymenoptera: Apoidea: Apiformes	209	584	36	351	?	351	?	medium	medium	PŘÍDAL (2008)	J. STRAKA <i>et al.</i> (2007)	
Insecta: Trichoptera	123	258	48	84	21	84		high	high	KOMZÁK & CHVOJKA (2012)	CHVOJKA & KOMZÁK (2008), KOMZÁK & KROČA (2011)	
Insecta: Lepidoptera	1770	3429	52	337	135	337	40	high	high	GOTTWALD & BĚLÍN (2001), HORAL <i>et al.</i> (2006), SITEK (2008), GOTTWALD <i>et al.</i> (2011), VÁVRA <i>et al.</i> (2008), ŠUMPICH <i>et al.</i> (2010)	LAŠTŮVKA & LIŠKA (2011)	
Insecta: Mecoptera	5	10	50	3	0	3	0	low	low	ŠEVČÍK (1999, 2008)	ZELENÝ (2005b)	
Insecta: Diptera: Agromyzidae	167	463	36	7	2	7	29	medium	medium	ČERNÝ (2001, 2004) ČERNÝ & VLK (2004)	ČERNÝ & VÁLA (2009)	
Insecta: Diptera: Limoniidae	72	293	25	21	2	21	10	medium	medium	OMELKOVÁ <i>et al.</i> (2008)	JAR. STARÝ (2009b)	
Insecta: Diptera: Psychodidae	108	172	63	62	26	62	42	high	high	JEŽEK & OMELKOVÁ (2012a)	JEŽEK (2009), JEŽEK <i>et al.</i> (2012)	
Insecta: Diptera: Scathophagidae	12	79	15	13	0	13	0	medium	medium	ŠIFNER (2006, 2011a,b)	ŠIFNER (2009)	
Insecta: Diptera: Sciomyzidae	21	78	27	10	1	10	10	medium	medium	Nerudová (1998, 1999; unpubl. ms.)	ROZKOŠNÝ (2009b)	
Insecta: Diptera: Stratiomyidae	7	66	11	24	4	24	17	low	low	Nerudová (1998, 1999; unpubl. ms.)	ROZKOŠNÝ (2009a)	
Insecta: Diptera: Tabanidae	26	57	46	16	1	16	6	high	high	JEŽEK & OMELKOVÁ (2012b)	CHVÁLA (2009)	
TOTAL	5618	12641	44	2749	650	2749	24					

Original name	Status	Group	Locality (Type status)
<i>Pseudechiniscus marinae</i> Bartoš, 1934	valid as <i>Pseudechiniscus novaezeelandiae marinae</i> Bartoš, 1934	Tardigrada: Echiniscidae	Luhačovice – přehrada (ST)
<i>Acerentomon jageticola</i> Rusek, 1966	valid	Protura: Acerentomidae	Velká Javořina (HT)
<i>Lepismachilis y-signata</i> Kratochvíl, 1945	valid	Archaeognatha: Machilidae	Louka u Blatnice, Hostětín, Bylnice (ST)
<i>Carabus coriaceus pseudorugifer</i> Sokolář, 1906	synonym of <i>Carabus coriaceus</i> Linnaeus, 1758	Coleoptera: Carabidae	Stražnice, Bojkovice, Vlárský průsmyk (ST)
<i>Limonius poneli</i> Leseigneur et Mertlik, 2007	valid	Coleoptera: Elateridae	Radějov, Čertoryje, Kútky,
<i>Tolyphus punctatosiriatius</i> var. <i>flavipes</i> Fleischer, 1928	synonym of <i>Tolyphus punctulatus</i> Rosenhauer, 1856	Coleoptera: Phalacridae	Vlárský průsmyk (ST)
<i>Aegeria (Tipulia) cryptica</i> Králíček et Povolný, 1977	synonym of <i>Synanthedon loranithi</i> (Králíček, 1966)	Lepidoptera: Sesidae	Radějov (PT)
<i>Aphidius hieraciorum</i> P. Starý, 1962	valid	Hymenoptera: Braconidae	Javorník (PT)
<i>Phanerotoma picta</i> Šnoflák, 1950	synonym of <i>Phanerotoma (Phanerotoma) diversa</i> (Walker, 1874)	Hymenoptera: Braconidae	Javorník (HT)
<i>Praon pubescens</i> P. Starý, 1961	valid	Hymenoptera: Braconidae	Javorník (PT)
<i>Praon silvestre</i> P. Starý, 1971	valid	Hymenoptera: Braconidae	Javorník (PT)
<i>Triaspis hofferi</i> Šnoflák, 1953	synonym of <i>Eubadizus lepidus</i> (Haliday, 1835)	Hymenoptera: Braconidae	Stražnice (HT)
<i>Trioxys (Trioxys) tenuicaudus</i> P. Starý, 1978	valid	Hymenoptera: Braconidae	Stražnice (HT)
<i>Aclista pseudosoror</i> Macek, 2007	valid	Hymenoptera: Diapriidae	Velká Javořina (PT)
<i>Dinocarsis submontana</i> Hoffer, 1953	synonym of <i>Dinocarsis hemiptera</i> (Dalman, 1820)	Hymenoptera: Encyrtidae	Louka, Javorník – Paličky hill (PT)
<i>Echthroplexiella moravica</i> Hoffer, 1953	valid as <i>Aphycus moravicus</i> (Hoffer, 1953)	Hymenoptera: Encyrtidae	Velká Javořina (HT)
<i>Ooencyrtus (Tatramus) brevicauda</i> Hoffer, 1963	synonym of <i>Ginsiana carpetana</i> (Mercet, 1921)	Hymenoptera: Encyrtidae	Suchov (PT)
<i>Ooencyrtus (Tatramus) terebrator</i> Hoffer, 1963	synonym of <i>Ginsiana praepannonica</i> (Erdős, 1957)	Hymenoptera: Encyrtidae	Suchov (HT), Strání (PT)

Original name	Status	Group	Locality (Type status)
<i>Paraphaenodiscus carpathicus</i> Hoffer, 1958	valid as <i>Aschitus carpathicus</i> (Hoffer, 1958)	Hymenoptera: Encyrtidae	Velká Javořina (HT)
<i>Paraphaenodiscus javorinensis</i> Hoffer, 1958	synonym of <i>Aschitus maches</i> (Walker, 1837)	Hymenoptera: Encyrtidae	Velká Javořina (HT)
<i>Protyndarichus mayi</i> Hoffer, 1957	synonym of <i>Mayridia eqidiopolitana</i> Erdős, 1957	Hymenoptera: Encyrtidae	Javorník (PT)
<i>Hedychridium roseum</i> forma <i>nitens</i> Hoffer, 1936	synonym of <i>Hedychridium roseum</i> (Rossi, 1790)	Hymenoptera: Chrysididae	Válašské Klobouky (ST)
<i>Ophiomyia heringi</i> B. Starý, 1930	valid	Diptera: Agromyzidae	Bílé Karpaty (ST)
<i>Dasyneura armoraciae</i> Vimmer, 1936	valid as <i>Dasyneura armoraciae</i> Vimmer, 1936	Diptera: Cecidomyiidae	Bojkovice (ST)
<i>Amiota (Phorica) semivirgo</i> Máca, 1977	valid	Diptera: Drosophilidae	Stražnice (PT)
<i>Ellipteroides (Protogonomyia) adraстеa</i> Jar. Starý et Mendl, 1984	valid	Diptera: Limoniidae	Radějov – Lučina (HT)
<i>Ormosia (Ormosia) aciculata loxia</i> Jar. Starý, 1983	valid as <i>Ormosia loxia</i> Jar. Starý, 1983	Diptera: Limoniidae	Radějov – Lučina (PT)
<i>Rhabdomastix (Rhabdomastix) crassa</i> Jar. Starý, 2004	valid	Diptera: Limoniidae	Radějov (PT)
<i>Clytocerus (Boreoclytocerus) splendidus</i> Ježek et Hájek, 2007	valid	Diptera: Psychodidae	Válašské Klobouky (PT)
<i>Philosepedon perdecorum</i> Omelková et Ježek, 2012b	valid	Diptera: Psychodidae	Kněždub – Kejda pond (PT)
<i>Pneumia kabelaki</i> Omelková et Ježek, 2012a	valid	Diptera: Psychodidae	Sidonie (HT)
<i>Norellisoma jelineki</i> Šifner, 2006	valid	Diptera: Scathophagidae	Strání – Svinarský potok (PT)
<i>Scathophaga moraviensis</i> Šifner, 2011	valid	Diptera: Scathophagidae	Hrubá Vrbka – Čertoryje (HT)
<i>Oreomyia concinna</i> var. <i>moravica</i> Hrbáček, 1945	synonym of <i>Stratiomys ruficornis</i> (Macquart, 1838)	Diptera: Stratiomyidae	Javorník (HT)
<i>Trichocera (Metatrachocera) cabva</i> Jar. Starý, 1999	valid	Diptera: Trichoceridae	Javorník (PT)

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