

## **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 km<sup>2</sup>, 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), Lonchoceridae (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 km<sup>2</sup>, 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 rovnokřídle, pošvatky, mery, křísy, ploštice, chrostíky, motýly, vodní brouky, širopasé blanokřídle, koutule a ovády) nebo atlasů rozšíření (suchozemští plži, vybraní motýli a stěvlíci), pro mnoho jiných taxonů jsou dosud fragmentární (např. většina dvoukřídle a blanokřídle), nepublikované (např. mandelinky, nosatci) nebo zcela chybí (např. chvostoskoci a lumci). Přestože CHKO Bílé Karpaty (715 km<sup>2</sup>) 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	HANĚL (2008)	HANĚL (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) TUHOVÁ <i>et al.</i> (2008)	TUF & LAŠKA (2005)	
Diplopoda	34	77	44	1	9	11	high	TAJOVSKÝ (2008c) TUHOVÁ <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)	
										ŠTRICHELOVÁ (2010)	SASKA (2007)	
Crustacea: Ostracoda	6	83	7	13	1	13	8	low	low	NOVÁČEK (2010)	KOPECKÝ (2001)	NOVÁČEK (2010)
Insecta: Archaeognatha	2	8	25	8	2	8	25	low	low	KRATOCHVIL (1945)	RUSEK (2005)	
Insecta: Ephemeroptera	40	107	37	4	4	52	8	medium	medium	SOLDÁN & ZAHŘÁDKOVÁ (2000)	ZAHŘÁDKOVÁ <i>et al.</i> (2009)	
										Zahrádková (pers. comm.)		
Insecta: Odonata	40	73	55	14	14	44	32	high	high	DOLNÝ <i>et al.</i> (2008)	DOLNÝ <i>et al.</i> (2008)	
Insecta: Plecoptera	36	100	36	7	7	73	10	high	high	BOJKOVÁ <i>et al.</i> (2012a)	RAUŠER (1977)	BOJKOVÁ <i>et al.</i> (2011b)
Insecta: Orthoptera	49	98	50	5	5	29	17	high	high	HOLUŠA <i>et al.</i> (2012)	KOČÁREK <i>et al.</i> (2005)	
Insecta: Blattaria	4	11	36	0	0	1	0	medium	medium	HOLUŠA <i>et al.</i> (2012)	KOČÁREK <i>et al.</i> (2005)	
Insecta: Mantodea	1	1	100	1	1	1	100	high	high	HOLUŠA <i>et al.</i> (2012)	KOČÁREK <i>et al.</i> (2005)	
Insecta: Dermaptera	4	7	57	0	0	2	0	medium	medium	HOLUŠA <i>et al.</i> (2012)	KOČÁREK <i>et al.</i> (2005)	
Insecta: Thysanoptera	63	ca. 280	23	1	8	8	13	low	low	Hřebíček (1998, unpubl. ms.)	PELIKÁN (2005)	
Insecta: Hemiptera: Psylloidea	85	130	65	17	17	53	32	high	high	MALENOVSKÝ & LAUTERER (2012a)	LAUTERER & MALENOVSKÝ (unpubl.)	
Insecta: Hemiptera: Auchenorrhyncha	352	572	62	86	86	235	37	high	high	MALENOVSKÝ & LAUTERER (2012b)	MALENOVSKÝ & LAUTERER (2010)	
Insecta: Hemiptera: Heteroptera	501	865	58	62	62	260	12	high	high	KMENT & BAŇAR (2012)	KMENT & BAŇAR (2012)	
Insecta: Megaloptera	1	4	25	0	0	2	0	low	low	ŠEVČÍK (2008)	ZELENÝ (2005a)	
Insecta: Neuroptera	11	88	13	3	3	25	12	low	low	ŠEVČÍK (1997, 2003, 2008)	JEDLIČKA <i>et al.</i> (2004)	ŠEVČÍK (2010)
Insecta: Strepsiptera	4	12	33	2	2	9	22	low	low	present paper	BATELKA <i>et al.</i> (2005)	
Insecta: Coleoptera: Carabidae	267	518	52	?	?	174	?	high	high	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, Limnhiidae 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	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)	
<b>TOTAL</b>	<b>5618</b>	<b>12641</b>	<b>44</b>	<b>2749</b>	<b>650</b>	<b>2749</b>	<b>24</b>					

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	Strážnice, Bojkovice, Vlárský průsmyk (ST)
<i>Limonius poneli</i> Leseigneur et Mertlik, 2007	valid	Coleoptera: Elateridae	Radějov, Čertoryje, Kůtky,
<i>Tolyphus punctatosirriatus</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	Strážnice (HT)
<i>Trioxys (Trioxys) tenuicaudus</i> P. Starý, 1978	valid	Hymenoptera: Braconidae	Strážnice (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>Ellipterooides (Protogonomyia) adraстеа</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)