

## 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, Jazevečí NNR, 355–360 m a.s.l.; Javorník nad Veličkou (7171a4)
95. Velička stream above Javorník, Jazevečí 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)

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### 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 Zápečov stream, spring area NE Nedašova Lhota, 550 m a.s.l.; Nedašova Lhota (6874d1)
141. Zápečov 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 ♀. Hrnčářův 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 ♂. Hrnčářův 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;

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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 ♂. Kladenska, 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 ♀. Kladenska, 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.** Kladenska, 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 (SZCZĘSŃY 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. Kladenka, 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 ♀. Kladenka, 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 Hrnčářův 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 ♀. Hrnčárův potok, 470–485 m (268), 27.vi.2008, 1 ♂. LT Hrnčárův 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*, *Beraeamyia 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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