

CARABIDAE (COLEOPTERA) OF SINKHOLES IN THE NORTHERN PART OF MORAVIAN KARST

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Abstract

ŠŤASTNÁ, P., HULA, V.: *Carabidae (Coleoptera) of sinkholes in the northern part of Moravian Karst*. Acta univ. agric. et silvic. Mendel. Brun., 2012, LX, No. 5, pp. 219–238

Results of faunistic-ecological research of Carabidae in selected sinkholes of the northern part of the protected landscape area of Moravian Karst are presented. The collection of ground beetles was conducted using pitfall traps in 2010 and 2011. A total of 88 species were caught in both years. In the studied area, there was registered incidence of five endangered species in accordance with Decree No. 395/1992 Coll. as amended: *Brachinus crepitans*, *Brachinus expulso*, *Carabus ullrichii*, *Cicindela campestris*, and *Cylindera germanica*. At the monitored sites, occurrence of two species (*Carabus cancellatus* and *Cylindera germanica*) included in the Red List of Threatened Species in the Czech Republic was registered. In one species (*Cylindera germanica*) the Decree 395/1992 Coll. and the Red List of Threatened Species in the Czech Republic meet. All studied sinkholes were dominated by eurytopic and adaptable species, only one relict species (*Aptinus bombarda*) was discovered.

Carabidae, sinkholes, Moravian Karst PLA, faunistics

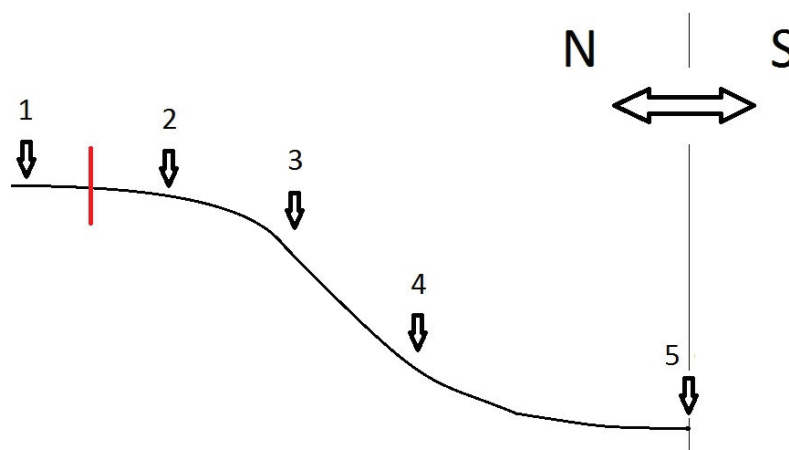
In the Moravian Karst several faunistic works have lately appeared. These are mainly dedicated to the semi-natural habitats, such as slopes of Macošská and Vilémovická stráž (Niedobová *et al.*, 2011a, b), complete valley of Suchý žleb (Hamet *et al.*, 2009), or possibly to artificial meadow habitats (Horáková *et al.*, 2005). Then there were realized also several bachelor (Kocmánková, 2005) and master theses (Kraus, 1985; Horáková, 2005; Klačková, 2005; Horák, 2008). Part of these data was published by Šťastná & Bezděk (2001). All these works focused on agroecosystems. Only Kraus (1985) and Horáková *et al.* (2005) concentrated among others on sinkholes, but only to a limited extent. They always focused on the surrounding agroecosystems. Part of their reference area was located in forest ecosystems. Sinkholes alone are not even mentioned in foreign literature, and their fauna has never been actively studied, they were addressed only as entrances to caves at greater depths.

MATERIAL AND METHODS

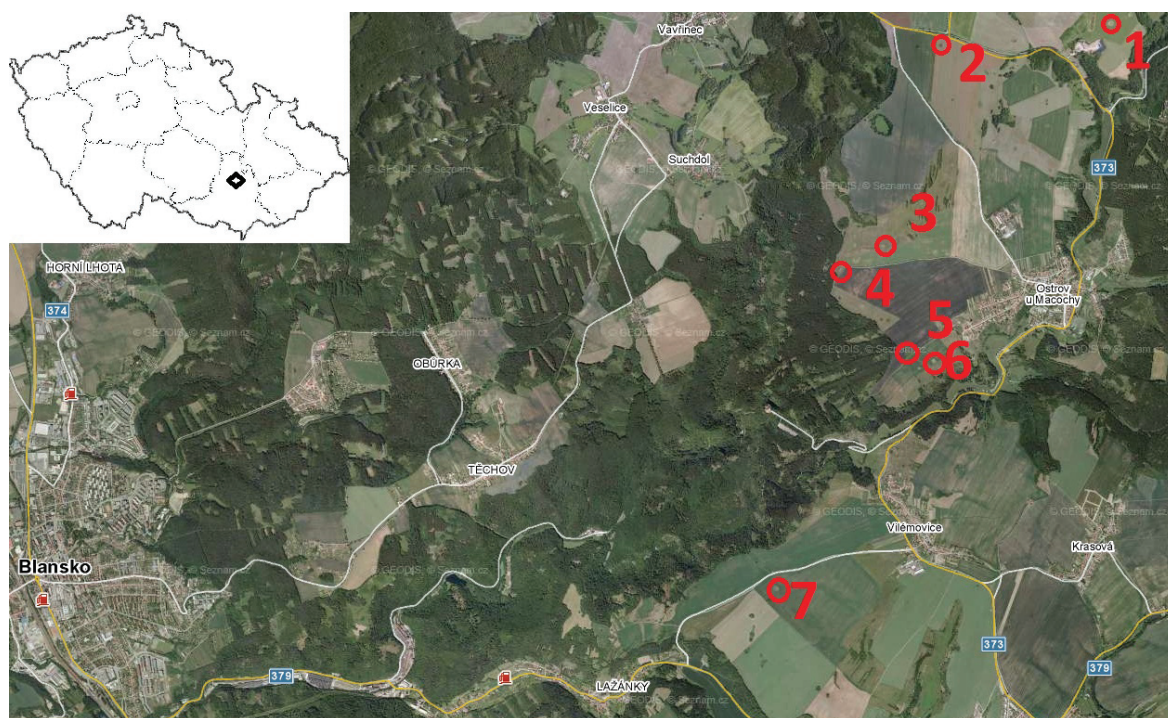
For the purposes of biomonitoring, capture of epigeic fauna in formaldehyde pitfall traps placed

in sinkholes was performed. Selection and location of studied areas was carried out with regard to ongoing phytocenological research on the given sinkholes. All monitored sinkholes are located at the karst plateaus of Harbechy and Ostrovská plošina. Both have roughly the same altitude (500 m asl) and similar management (typical agricultural landscape, partly grassed). Most (6) studied sinkholes are located at the plateau of Ostrovská plošina, only one (sinkhole 7 – “Společňák”) is located at Harbechy. All sinkholes are found in the faunistic square 6666 (Pruner & Míka, 1996).

The collections took place in 2010 and 2011. In 2010 traps were installed on the 24th March and in 2011 on the 31st March. Pitfall traps were placed so that they captured the entire spectrum of epigeic species living in sinkholes and their immediate surroundings. Nine traps were placed over the entire sinkhole (Fig. 1). Two traps (the first one and the last one) were located outside of the sinkhole in the surrounding culture, four traps were placed on the sides of the sinkhole (in the upper part and in the slope) and one was placed at the bottom of the sinkhole (if possible). Traps were placed in this design at all the monitored areas (7 sinkholes), thus



1: Design of traps location



2: Map of the sinkholes selected (source: mapy.cz)

a total number of 63 traps were placed. Traps line was always placed in the north-south orientation. Material from the traps was collected at regular monthly intervals, in 2010 on 22. 4., 19. 5., 28. 6., 22. 7., 26. 8. and 22. 9.; in 2011 on 28. 4., 20. 5., 28. 6., 28. 7., 22. 8. and 30. 9. A 4% formaldehyde with a detergent addition as a wetting agent was used as fixative fluid. After collection the material was converted into a permanent fixation in 70% alcohol.

Description of studied sinkholes (Fig. 2)

Sinkhole 1: Located in permanent grasslands, meadow vegetation reflected former field crops. The center of the sinkhole was covered by nitrophilous vegetation species, especially by nettles. GPS: 49°24'7.5"N, 16°46'15.2"E;

Sinkhole 2: Located in field crops, ruderal and strongly nitrophilous vegetation in the center. GPS: 49°24'0.3"N, 16°44'56.8"E;

Sinkhole 3: Located in permanent grasslands. The entire sinkhole was heavily overgrown by nitrophilous species, especially by sorrel (*Rumex* sp.). GPS: 49°23'8.9"N, 16°44'40.5"E;

Sinkhole 4: Located in permanent grasslands. The very species-rich vegetation composition of surrounding permanent grasslands was very close to potential natural grassland habitats in the area. There were indeed nitrophilous species present in the sinkhole. However, their amount was the lowest in comparison with those of the rest of monitored sinkholes. GPS: 49°23'0.4"N, 16°44'16.9"E;

Sinkhole 5: With fewer nitrophilous species as well; its surrounding corresponded to cultural meadow without special mowing. GPS: 49°22'37.3"N, 16°44'45.2"E;

Sinkhole 6: Located in field crops, the center of sinkhole was strongly degraded due to a large number of nitrophilous species and heavy flooding during torrential rains. GPS: 49°22'32.5"N, 16°44'49.9"E;

Sinkhole 7: The sinkhole was covered by cultural meadow vegetation with great representation of dicotyledonous species and relatively small representation of ruderal nitrophilous species. GPS: 49°21'31.9"N, 16°43'46.6"E.

The ground beetles were sorted according to the individual systematic groups, specific identification which followed according to Hůrka (1996). The nomenclature is according to Audisio & Taglianti (2010).

Pursuant to Hůrka *et al.* (1996), species were classified into three indication groups (R, A, E) according to their ecological valency and dependence on the habitat. Species in the R group are stenotopic species with the narrowest ecological valency, mostly rare and endangered species of native, intact ecosystems. Group A is characterized by adaptable species occurring in habitats close to natural state. The last bioindication group E includes eurytopic species that have no special demands on the quality of the environment (species of unstable and changing habitats, habitats strongly influenced by human activities).

RESULTS AND DISCUSSION

For both years, in total 88 species of Carabidae were captured. Within the research, in sinkhole 1 there were 17 species (2478 specimens) caught in 2010 and 30 species (2651 specimens) caught in 2011. In sinkhole 2 there were 30 species (991 specimens) captured in 2010 and 45 species (951 specimens) in 2011, in sinkhole 3, there were 22 species (1316 specimens) recorded in 2010 and 34 species (1000 specimens) in 2011, in sinkhole 4 there were 27 species (391 specimens) recorded in 2010 and 36 species (544 individuals) in 2011, in sinkhole 5 there were 28 species (418 specimens) captured in 2010 and 34 species (547 specimens) in 2011, in sinkhole 6 there were 27 species (724 specimens) found in 2010 and 43 species (533 specimens) in 2011, and in sinkhole 7 there were 33 species (758 specimens) found in 2010 and 50 species (1113 specimens) in 2011. In both years the sinkhole 7 was characterized by the richest species diversity. Representation of different species according the relictiness in individual sinkholes is shown in Tab. I.

In the studied area there was registered incidence of five endangered species of Carabidae in accordance with Decree No. 395/1992 Coll. as amended: *Brachinus crepitans*, *Brachinus explodens*, *Carabus ullrichii*, *Cicindela campestris*, and *Cylindera germanica*. All endangered species, except for

Brachinus explodens, occurred at monitored sites in 2010 (Štaštná, 2010). *Brachinus crepitans* found in 2010, was not identified at these locations in 2011.

At the monitored sites, occurrence of two species of Carabidae (*Carabus cancellatus* and *Cylindera germanica*) included in the Red List of Threatened Species in the Czech Republic was registered (Veselý *et al.*, 2005). In one case (*Cylindera germanica*) the Decree 395/1992 Coll. and the Red List of Threatened Species in the Czech Republic meet.

At the selected sites, the occurrence of a relict species, *Aptinus bombardus*, was registered. This species was found in sinkholes 3, 5 and 6 in 2010 (Štaštná, 2010) and it was found in all sinkholes, except for sinkholes 1 and 7 (the only sinkholes in purely field cultures) in 2011. The proportion of eurytopic and adaptable species in individual sinkholes in each year is shown in Tab. I.

I: The percentage of bioindicator groups (%) in particular years and individual sinkholes

sinkhole	2010			2011		
	E	A	R	E	A	R
1	50	50		50	50	
2	61	39		60	38	2
3	52	44	4	65	32	3
4	53	47		53	44	3
5	47	50	3	62	35	3
6	53	43	4	58	40	2
7	65	35		66	34	

In comparison to other works, where the authors focus on sinkholes at the same platforms, there were found several species that we did not detect. For example, Horáková *et al.* (2005) list 24 more species which are mostly forest species (eg. *Carabus auronitens*, *C. glabratus* and others). This difference is mainly due to the fact that these authors also observed a sinkhole in pure forest habitat. Other different species were again found in a habitat that was not represented in our research. It was xerothermic lawns (*Licinus hoffmannsegi*, *Badister bullatus* etc.). Another author who focused on sinkholes was Kraus (1985) who found 4 species different from us (*Cychrus caraboides*, *Carabus auronitens*, *Carabus glabratus* and *Pterostichus melas*). As in the case of Horáková *et al.* (2005), these were forest species *Cychrus caraboides* and *Pterostichus melas* and they were detected only by this author (the other two are reported also by Horáková *et al.*, 2005).

Annotated List of Species Found

Characteristics of individual species of Carabidae are by Hůrka (1996). All dates are in the central European format of dd.m.yyyy. Numbers of particular trap/ locality are given in format e.g. 5/2.

Abax ovalis (Duftschmid, 1812)

Common species of deciduous forests from lowlands to mountains. Data: 2 ex., 28. 6. 2010, 5/2; 1 ex., 22. 7. 2010, 5/2; 1 ex., 22. 7. 2010, 5/4; 4 ex., 22. 9. 2010, 5/4; 6 ex., 19. 5. 2010, 5/5; 1 ex., 26. 8. 2010, 5/5; 1 ex., 19. 5. 2010, 5/7; 1 ex., 26. 8. 2010, 6/5; 1 ex., 19. 5. 2010, 7/1; 1 ex., 22. 7. 2010, 7/6; 1 ex., 28. 6. 2011, 2/3; 1 ex., 28. 7. 2011, 3/4; 1 ex., 28. 7. 2011, 3/5; 1 ex., 28. 6. 2011, 3/7; 1 ex., 28. 7. 2011, 3/9; 1 ex., 28. 4. 2011, 4/1; 1 ex., 28. 6. 2011, 4/1; 1 ex., 28. 6. 2011, 4/7; 2 ex., 28. 7. 2011, 5/1; 7 ex., 20. 5. 2011, 5/3; 7 ex., 28. 6. 2011, 5/3; 1 ex., 28. 7. 2011, 5/3; 4 ex., 22. 8. 2011, 5/3; 2 ex., 30. 9. 2011, 5/3; 2 ex., 28. 4. 2011, 5/4; 5 ex., 20. 5. 2011, 5/4; 7 ex., 28. 6. 2011, 5/4; 1 ex., 28. 7. 2011, 5/4; 3 ex., 22. 8. 2011, 5/4; 6 ex., 30. 9. 2011, 5/4; 1 ex., 28. 4. 2011, 5/5; 3 ex., 20. 5. 2011, 5/5; 5 ex., 28. 6. 2011, 5/5; 1 ex., 22. 8. 2011, 5/5; 5 ex., 30. 9. 2011, 5/5; 4 ex., 20. 5. 2011, 5/6; 1 ex., 28. 7. 2011, 5/6; 1 ex., 22. 8. 2011, 5/6; 3 ex., 20. 5. 2011, 5/7; 2 ex., 28. 6. 2011, 5/7; 3 ex., 22. 8. 2011, 5/7; 1 ex., 20. 5. 2011, 5/8; 1 ex., 28. 7. 2011, 6/2; 1 ex., 28. 7. 2011, 6/3.

Abax parallelepipedus (Piller & Mitterpacher, 1783)

Very common species of all types of forests, known from lowlands to mountains. Data: 1 ex., 28. 6. 2010, 1/2; 2 ex., 22. 7. 2010, 1/2; 2 ex., 28. 6. 2010, 1/3; 2 ex., 28. 6. 2010, 1/4; 2 ex., 28. 6. 2010, 1/5; 2 ex., 22. 7. 2010, 1/5; 1 ex., 26. 8. 2010, 1/5; 4 ex., 28. 6. 2010, 1/6; 1 ex., 26. 8. 2010, 1/6; 1 ex., 22. 4. 2010, 1/7; 1 ex., 19. 5. 2010, 1/8; 1 ex., 28. 6. 2010, 1/8; 1 ex., 26. 8. 2010, 1/9; 2 ex., 22. 4. 2010, 2/1; 6 ex., 19. 5. 2010, 2/2; 3 ex., 28. 6. 2010, 2/3; 10 ex., 19. 5. 2010, 2/4; 4 ex., 19. 5. 2010, 2/5; 1 ex., 22. 4. 2010, 2/6; 3 ex., 22. 4. 2010, 2/7; 5 ex., 28. 6. 2010, 2/7; 5 ex., 28. 6. 2010, 2/8; 1 ex., 22. 4. 2010, 2/9; 2 ex., 19. 5. 2010, 2/9; 4 ex., 28. 6. 2010, 2/9; 1 ex., 19. 5. 2010, 3/2; 10 ex., 28. 6. 2010, 3/2; 2 ex., 22. 4. 2010, 3/3; 8 ex., 28. 6. 2010, 3/3; 3 ex., 22. 7. 2010, 3/3; 8 ex., 28. 6. 2010, 3/4; 3 ex., 22. 7. 2010, 3/4; 2 ex., 19. 5. 2010, 3/5; 9 ex., 28. 6. 2010, 3/5; 3 ex., 26. 8. 2010, 3/5; 2 ex., 22. 4. 2010, 3/6; 8 ex., 28. 6. 2010, 3/6; 1 ex., 22. 9. 2010, 3/6; 1 ex., 22. 9. 2010, 3/7; 1 ex., 22. 4. 2010, 3/8; 4 ex., 19. 5. 2010, 3/8; 13 ex., 28. 6. 2010, 3/8; 10 ex., 22. 7. 2010, 3/8; 3 ex., 26. 8. 2010, 3/8; 1 ex., 22. 7. 2010, 4/1; 6 ex., 28. 6. 2010, 4/2; 2 ex., 22. 7. 2010, 4/3; 4 ex., 26. 8. 2010, 4/3; 1 ex., 19. 5. 2010, 4/4; 1 ex., 28. 6. 2010, 4/4; 3 ex., 26. 8. 2010, 4/4; 3 ex., 19. 5. 2010, 4/5; 4 ex., 28. 6. 2010, 4/5; 1 ex., 22. 7. 2010, 4/5; 2 ex., 26. 8. 2010, 4/5; 1 ex., 22. 4. 2010, 4/6; 1 ex., 19. 5. 2010, 4/7; 1 ex., 22. 4. 2010, 5/1; 2 ex., 26. 8. 2010, 5/1; 7 ex., 22. 4. 2010, 5/2; 3 ex., 19. 5. 2010, 5/2; 2 ex., 28. 6. 2010, 5/2; 2 ex., 22. 7. 2010, 5/2; 4 ex., 28. 6. 2010, 5/3; 3 ex., 26. 8. 2010, 5/3; 5 ex., 19. 5. 2010, 5/4; 2 ex., 22. 7. 2010, 5/4; 4 ex., 26. 8. 2010, 5/4; 1 ex., 22. 4. 2010, 5/5; 8 ex., 28. 6. 2010, 5/5; 4 ex., 22. 7. 2010, 5/5; 4 ex., 26. 8. 2010, 5/5; 1 ex., 22. 4. 2010, 5/7; 2 ex., 19. 5. 2010, 5/7; 12 ex., 28. 6. 2010, 5/7; 1 ex., 22. 7. 2010, 5/7; 2 ex., 22. 4. 2010, 6/1; 1 ex., 28. 6. 2010, 6/2; 2 ex., 22. 7. 2010, 6/2; 3 ex., 26. 8. 2010, 6/2; 2 ex., 22. 4. 2010, 6/3; 3 ex., 19. 5. 2010, 6/3; 1 ex., 22. 4. 2010, 6/5; 9 ex., 28. 6. 2010, 6/5; 2 ex., 22. 7. 2010, 6/5; 4 ex., 26. 8. 2010, 6/5; 3 ex., 28. 6. 2010, 6/6; 2 ex., 28. 6. 2010, 6/7; 2 ex., 28. 6. 2010, 6/8; 3 ex., 26. 8. 2010, 6/8; 2 ex., 19. 5. 2010, 6/9; 8 ex., 28. 6. 2010, 6/9; 1 ex., 22. 7. 2010, 6/9; 3 ex., 22. 4. 2010, 7/1; 3 ex., 19. 5. 2010, 7/1; 6 ex., 19. 5. 2010, 7/2; 48 ex., 19. 5. 2010, 7/5; 25 ex., 22. 7. 2010, 7/5; 3 ex., 22. 4. 2010, 7/6; 5 ex., 19. 5. 2010, 7/6; 4 ex., 22. 7. 2010, 7/6; 4 ex., 19. 5. 2010, 7/7; 1 ex., 26. 8. 2010, 7/7; 4 ex., 19. 5. 2010, 7/9; 14 ex., 22. 7. 2010, 7/9; 1 ex., 22. 8. 2011, 4/5; 1 ex., 28. 7. 2011, 5/1; 1 ex., 28. 7. 2011, 5/2; 2 ex., 28. 4. 2011, 5/3; 2 ex., 28. 7. 2011, 5/3; 2 ex., 22. 8. 2011, 5/3; 2 ex., 30. 9. 2011, 5/3; 1 ex., 28. 6. 2011, 5/4; 1 ex., 30. 9. 2011, 5/4; 1 ex., 28. 6. 2011, 5/6; 1 ex., 28. 4. 2011, 5/7; 2 ex., 28. 6. 2011, 5/8; 1 ex., 28. 6. 2011, 5/9; 1 ex., 28. 7. 2011, 6/3; 1 ex., 22. 8. 2011, 6/4; 1 ex., 28. 4. 2011, 6/5; 1 ex., 28. 7. 2011, 6/5; 1 ex., 20. 5. 2011, 7/1.

2010, 6/8; 2 ex., 22. 7. 2010, 6/8; 3 ex., 26. 8. 2010, 6/8; 2 ex., 19. 5. 2010, 6/9; 8 ex., 28. 6. 2010, 6/9; 1 ex., 22. 7. 2010, 6/9; 3 ex., 22. 4. 2010, 7/1; 3 ex., 19. 5. 2010, 7/1; 6 ex., 19. 5. 2010, 7/2; 48 ex., 19. 5. 2010, 7/5; 25 ex., 22. 7. 2010, 7/5; 3 ex., 22. 4. 2010, 7/6; 5 ex., 19. 5. 2010, 7/6; 4 ex., 22. 7. 2010, 7/6; 4 ex., 19. 5. 2010, 7/7; 1 ex., 26. 8. 2010, 7/7; 4 ex., 19. 5. 2010, 7/9; 14 ex., 22. 7. 2010, 7/9; 1 ex., 22. 8. 2011, 4/5; 1 ex., 28. 7. 2011, 5/1; 1 ex., 28. 7. 2011, 5/2; 2 ex., 28. 4. 2011, 5/3; 2 ex., 28. 7. 2011, 5/3; 2 ex., 22. 8. 2011, 5/3; 2 ex., 30. 9. 2011, 5/3; 1 ex., 28. 6. 2011, 5/4; 1 ex., 30. 9. 2011, 5/4; 1 ex., 28. 6. 2011, 5/6; 1 ex., 28. 4. 2011, 5/7; 2 ex., 28. 6. 2011, 5/8; 1 ex., 28. 6. 2011, 5/9; 1 ex., 28. 7. 2011, 6/3; 1 ex., 22. 8. 2011, 6/4; 1 ex., 28. 4. 2011, 6/5; 1 ex., 28. 7. 2011, 6/5; 1 ex., 20. 5. 2011, 7/1.

Abax parallelus (Duftschmid, 1812)

Common forest species known from lowlands to mountains. Data: 2 ex., 19. 5. 2010, 1/2; 3 ex., 19. 5. 2010, 1/6; 1 ex., 19. 5. 2010, 1/7; 1 ex., 28. 6. 2010, 1/3; 1 ex., 28. 6. 2010, 1/5; 2 ex., 22. 7. 2010, 1/6; 2 ex., 22. 7. 2010, 1/9; 2 ex., 22. 4. 2010, 2/8; 10 ex., 19. 5. 2010, 2/2; 3 ex., 19. 5. 2010, 2/3; 6 ex., 19. 5. 2010, 2/4; 2 ex., 19. 5. 2010, 2/5; 2 ex., 19. 5. 2010, 2/8; 1 ex., 19. 5. 2010, 2/9; 1 ex., 28. 6. 2010, 2/3; 2 ex., 28. 6. 2010, 2/5; 3 ex., 28. 6. 2010, 2/7; 11 ex., 28. 6. 2010, 2/8; 2 ex., 28. 6. 2010, 2/9; 7 ex., 22. 7. 2010, 2/8; 2 ex., 26. 8. 2010, 2/3; 1 ex., 22. 9. 2010, 2/7; 1 ex., 19. 5. 2010, 3/3; 2 ex., 19. 5. 2010, 3/8; 5 ex., 28. 6. 2010, 3/2; 4 ex., 28. 6. 2010, 3/8; 8 ex., 28. 6. 2010, 3/9; 2 ex., 22. 7. 2010, 3/1; 1 ex., 22. 7. 2010, 3/2; 3 ex., 22. 7. 2010, 3/3; 6 ex., 22. 7. 2010, 3/4; 4 ex., 22. 7. 2010, 3/6; 4 ex., 26. 8. 2010, 3/3; 1 ex., 26. 8. 2010, 3/7; 4 ex., 26. 8. 2010, 3/8; 1 ex., 22. 9. 2010, 3/7; 1 ex., 22. 9. 2010, 3/8; 1 ex., 19. 5. 2010, 4/1; 3 ex., 19. 5. 2010, 4/4; 2 ex., 19. 5. 2010, 4/8; 3 ex., 28. 6. 2010, 4/1; 2 ex., 22. 7. 2010, 4/3; 2 ex., 22. 7. 2010, 4/6; 2 ex., 22. 7. 2010, 4/7; 2 ex., 22. 7. 2010, 4/8; 2 ex., 26. 8. 2010, 4/3; 1 ex., 26. 8. 2010, 4/4; 2 ex., 26. 8. 2010, 4/7; 1 ex., 22. 4. 2010, 5/7; 2 ex., 19. 5. 2010, 5/5; 4 ex., 19. 5. 2010, 5/7; 3 ex., 19. 5. 2010, 5/9; 3 ex., 28. 6. 2010, 5/5; 4 ex., 22. 7. 2010, 5/2; 3 ex., 22. 7. 2010, 5/4; 1 ex., 22. 7. 2010, 5/6; 2 ex., 22. 7. 2010, 5/9; 2 ex., 26. 8. 2010, 5/2; 3 ex., 26. 8. 2010, 5/4; 3 ex., 26. 8. 2010, 5/6; 1 ex., 26. 8. 2010, 5/8; 4 ex., 19. 5. 2010, 6/7; 2 ex., 28. 6. 2010, 6/6; 1 ex., 28. 6. 2010, 6/7; 2 ex., 22. 7. 2010, 6/3; 3 ex., 22. 7. 2010, 6/5; 6 ex., 22. 7. 2010, 6/7; 1 ex., 26. 8. 2010, 6/1; 2 ex., 26. 8. 2010, 6/4; 3 ex., 26. 8. 2010, 6/6; 8 ex., 19. 5. 2010, 7/1; 26 ex., 19. 5. 2010, 7/5; 9 ex., 19. 5. 2010, 7/6; 3 ex., 22. 7. 2010, 7/1; 11 ex., 22. 7. 2010, 7/3; 7 ex., 22. 7. 2010, 7/4; 7 ex., 22. 7. 2010, 7/5; 18 ex., 22. 7. 2010, 7/6; 3 ex., 22. 7. 2010, 7/7; 6 ex., 22. 7. 2010, 7/8; 16 ex., 22. 7. 2010, 7/9; 5 ex., 26. 8. 2010, 7/1; 6 ex., 26. 8. 2010, 7/5; 6 ex., 26. 8. 2010, 7/6; 1 ex., 22. 8. 2011, 1/2; 1 ex., 28. 4. 2011, 1/4; 1 ex., 22. 8. 2011, 1/4; 1 ex., 28. 6. 2011, 2/2; 1 ex., 28. 7. 2011, 2/2; 1 ex., 28. 6. 2011, 2/4; 1 ex., 28. 6. 2011, 2/5; 2 ex., 28. 7. 2011, 2/5; 1 ex., 28. 7. 2011, 2/8; 1 ex., 28. 6. 2011, 2/9; 1 ex., 28. 7. 2011, 3/2; 1 ex., 28. 4. 2011, 3/5; 2 ex., 28. 6. 2011, 3/5; 6 ex., 28. 7. 2011, 3/5; 1 ex., 22. 8. 2011, 3/7; 1 ex., 28. 7. 2011, 4/2; 1 ex., 22. 8. 2011, 4/3; 1 ex., 28. 7. 2011, 4/4; 1 ex., 30. 9. 2011, 4/4; 1 ex., 28. 6. 2011, 4/5; 1 ex., 22.

8. 2011, 4/5; 1 ex., 28. 7. 2011, 4/6; 1 ex., 28. 6. 2011, 5/1; 3 ex., 28. 7. 2011, 5/1; 4 ex., 28. 4. 2011, 5/3; 1 ex., 20. 5. 2011, 5/3; 4 ex., 28. 6. 2011, 5/3; 1 ex., 28. 7. 2011, 5/3; 2 ex., 22. 8. 2011, 5/3; 1 ex., 30. 9. 2011, 5/3; 1 ex., 28. 4. 2011, 5/4; 2 ex., 20. 5. 2011, 5/4; 2 ex., 28. 7. 2011, 5/4; 1 ex., 22. 8. 2011, 5/4; 1 ex., 28. 4. 2011, 5/5; 3 ex., 20. 5. 2011, 5/5; 5 ex., 28. 6. 2011, 5/5; 2 ex., 28. 7. 2011, 5/5; 3 ex., 22. 8. 2011, 5/5; 3 ex., 30. 9. 2011, 5/5; 1 ex., 28. 4. 2011, 5/6; 2 ex., 20. 5. 2011, 5/7; 3 ex., 28. 6. 2011, 5/7; 4 ex., 22. 8. 2011, 5/7; 1 ex., 28. 4. 2011, 6/3; 2 ex., 22. 8. 2011, 6/4; 1 ex., 20. 5. 2011, 6/5; 10 ex., 28. 6. 2011, 6/5; 1 ex., 28. 7. 2011, 6/5; 3 ex., 22. 8. 2011, 6/5; 2 ex., 28. 6. 2011, 6/6; 2 ex., 22. 8. 2011, 6/6; 2 ex., 28. 6. 2011, 6/7; 1 ex., 28. 7. 2011, 6/7; 1 ex., 20. 5. 2011, 7/1; 1 ex., 28. 7. 2011, 7/1; 1 ex., 20. 5. 2011, 7/3; 1 ex., 28. 7. 2011, 7/5; 1 ex., 28. 7. 2011, 7/6; 1 ex., 30. 9. 2011, 7/7.

Amara aenea (De Geer, 1774)

Very common eurytopic species of open habitats (fields, steppe, ruderals), from lowlands to mountains. Data: 1 ex., 22. 4. 2010, 3/1; 2 ex., 22. 4. 2010, 3/8; 6 ex., 22. 4. 2010, 4/9; 2 ex., 19. 5. 2010, 4/4; 9 ex., 19. 5. 2010, 4/9; 1 ex., 28. 6. 2010, 4/2; 1 ex., 19. 5. 2010, 5/8; 3 ex., 22. 4. 2010, 7/2; 6 ex., 19. 5. 2010, 7/3; 1 ex., 28. 4. 2011, 1/1; 3 ex., 28. 7. 2011, 1/1; 1 ex., 28. 4. 2011, 1/4; 1 ex., 20. 5. 2011, 1/9; 1 ex., 28. 4. 2011, 3/1; 1 ex., 28. 7. 2011, 3/7; 1 ex., 22. 8. 2011, 3/8; 1 ex., 28. 4. 2011, 3/9; 2 ex., 28. 7. 2011, 3/9; 1 ex., 28. 4. 2011, 4/1; 4 ex., 20. 5. 2011, 4/1; 2 ex., 28. 6. 2011, 4/1; 2 ex., 28. 7. 2011, 4/1; 2 ex., 22. 8. 2011, 4/1; 2 ex., 22. 8. 2011, 4/2; 1 ex., 28. 4. 2011, 4/4; 1 ex., 22. 8. 2011, 4/4; 6 ex., 22. 8. 2011, 4/8; 2 ex., 20. 5. 2011, 4/9; 6 ex., 28. 6. 2011, 4/9; 28 ex., 22. 8. 2011, 4/9; 1 ex., 28. 7. 2011, 5/5; 1 ex., 28. 4. 2011, 5/9; 1 ex., 28. 4. 2011, 6/3; 4 ex., 22. 8. 2011, 7/3; 1 ex., 30. 9. 2011, 7/3; 1 ex., 28. 4. 2011, 7/6; 1 ex., 28. 4. 2011, 7/7; 2 ex., 20. 5. 2011, 7/7; 2 ex., 28. 4. 2011, 7/8; 3 ex., 28. 4. 2011, 7/9; 1 ex., 20. 5. 2011, 7/9.

Amara apricaria (Paykull, 1790)

Very common in unshaded habitats (ruderals, fields), from lowlands to mountains. Data: 1 ex., 28. 4. 2011, 7/7.

Amara aulica (Panzer, 1797)

Very common eurytopic species of different open habitats known from lowlands to mountains. Data: 1 ex., 22. 8. 2011, 3/1; 2 ex., 22. 8. 2011, 3/7; 1 ex., 28. 7. 2011, 4/3; 1 ex., 22. 8. 2011, 4/3; 5 ex., 30. 9. 2011, 4/3; 1 ex., 22. 8. 2011, 4/8; 1 ex., 30. 9. 2011, 5/3; 1 ex., 22. 8. 2011, 6/3.

Amara communis (Panzer, 1797)

Common species, preferably in moist, unshaded, or partly shaded habitats (meadows, floodplain forest clearings, edges of waters, from lowlands to mountains. Data: 1 ex., 28. 4. 2011, 7/6.

Amara consularis (Duftschmid, 1812)

Very common species in dry and moderately dry, unshaded habitats (fields, steppe), known from lowlands to foothills. Data: 1 ex., 28. 4. 2011, 1/2.

Amara convexior Stephens, 1828

Common to sporadic species known from lowlands to mountains, indifferent to shade (meadows, shrubby hill-sides, open forests). Data: 1 ex., 22. 4. 2010, 2/3; 1 ex., 22. 4. 2010, 2/6; 1 ex., 22. 4. 2010, 2/8; 1 ex., 22. 4. 2010, 2/9; 1 ex., 22. 4. 2010, 3/3; 1 ex., 22. 4. 2010, 3/4; 1 ex., 22. 4. 2010, 3/6; 1 ex., 22. 4. 2010, 4/3; 1 ex., 19. 5. 2010, 5/2; 1 ex., 22. 9. 2010, 5/2; 1 ex., 22. 4. 2010, 7/1; 2 ex., 22. 4. 2010, 7/4; 1 ex., 22. 4. 2010, 7/6; 1 ex., 28. 4. 2011, 4/5; 1 ex., 28. 4. 2011, 4/8; 1 ex., 28. 7. 2011, 5/1; 1 ex., 28. 7. 2011, 5/3; 1 ex., 30. 9. 2011, 5/3; 6 ex., 28. 4. 2011, 5/4; 1 ex., 28. 4. 2011, 6/3; 1 ex., 28. 6. 2011, 6/3; 1 ex., 28. 6. 2011, 6/7; 1 ex., 28. 4. 2011, 7/1; 1 ex., 28. 4. 2011, 7/7.

Amara equestris (Duftschmid, 1812)

Sporadic species on dry to very dry, unshaded habitats (steppe, pastures), from lowlands to mountains. Data: 1 ex., 30. 9. 2011, 1/2; 2 ex., 30. 9. 2011, 4/9; 1 ex., 22. 8. 2011, 1/2; 1 ex., 28. 7. 2011, 7/2.

Amara familiaris (Duftschmid, 1812)

Very common eurytopic species of open habitats, known from lowlands to mountains. Data: 3 ex., 22. 4. 2010, 2/1; 1 ex., 22. 4. 2010, 2/3; 1 ex., 22. 4. 2010, 2/9; 3 ex., 22. 4. 2010, 7/4; 1 ex., 28. 6. 2011, 1/7; 2 ex., 20. 5. 2011, 1/8; 1 ex., 20. 5. 2011, 2/2; 2 ex., 28. 4. 2011, 2/6; 1 ex., 28. 7. 2011, 3/8; 1 ex., 28. 7. 2011, 3/9; 1 ex., 28. 4. 2011, 4/2; 1 ex., 28. 6. 2011, 4/2; 1 ex., 28. 4. 2011, 4/5; 1 ex., 28. 7. 2011, 5/3; 1 ex., 20. 5. 2011, 7/1; 1 ex., 28. 6. 2011, 7/1; 1 ex., 22. 8. 2011, 7/3; 1 ex., 22. 8. 2011, 7/6; 1 ex., 28. 4. 2011, 7/7; 3 ex., 20. 5. 2011, 7/7; 3 ex., 28. 4. 2011, 7/8.

Amara littorea C.G. Thomson, 1857

Sporadic species in Bohemia, locally common, in Moravia rare species, dry unshaded habitats (fields, steppe), from lowlands to hills. Data: 3 ex., 22. 4. 2010, 2/1; 2 ex., 22. 4. 2010, 2/3; 1 ex., 19. 5. 2010, 2/7; 1 ex., 28. 6. 2010, 2/8; 1 ex., 22. 4. 2010, 2/9; 1 ex., 19. 5. 2010, 2/9; 2 ex., 19. 5. 2010, 4/8; 1 ex., 28. 6. 2011, 2/3; 1 ex., 28. 4. 2011, 6/5; 1 ex., 28. 4. 2011, 7/6.

Amara lunicollis Schiödte, 1837

Common species of dry to moderately moist habitats, indifferent to shade (meadows, forest clearings, pastures), known from lowlands to mountains. Data: 1 ex., 22. 4. 2010, 1/3; 3 ex., 22. 4. 2010, 1/8; 1 ex., 22. 4. 2010, 2/3; 3 ex., 22. 4. 2010, 2/8; 1 ex., 22. 4. 2010, 2/9; 1 ex., 19. 5. 2010, 4/4; 1 ex., 22. 7. 2010, 5/9; 2 ex., 22. 4. 2010, 7/2; 2 ex., 28. 4. 2011, 1/1; 1 ex., 28. 6. 2011, 1/1; 6 ex., 28. 7. 2011, 1/1; 2 ex., 28. 7. 2011, 1/2; 1 ex., 20. 5. 2011, 1/4; 1 ex., 28. 6. 2011, 1/4; 1 ex., 28. 7. 2011, 1/5; 3 ex., 28. 7. 2011, 1/6; 1 ex., 28. 4. 2011, 1/8; 2 ex., 20. 5. 2011, 1/8; 1 ex., 22. 8. 2011, 1/8; 1 ex., 28. 6. 2011, 2/3; 1 ex., 22. 8. 2011, 2/7; 1 ex., 28. 7. 2011, 3/3; 8 ex., 28. 6. 2011, 3/4; 1 ex., 22. 8. 2011, 3/4; 2 ex., 28. 7. 2011, 3/6; 1 ex., 22. 8. 2011, 3/7; 1 ex., 22. 8. 2011, 3/8; 1 ex., 28. 7. 2011, 4/3; 1 ex., 28. 7. 2011, 4/4; 1 ex., 28. 7. 2011, 4/7; 1 ex., 28. 7. 2011, 4/9; 1 ex., 28. 4. 2011, 5/2; 1 ex., 28. 6. 2011, 5/3; 1 ex., 28. 7. 2011, 5/3; 1 ex., 28. 6. 2011, 5/8; 1

ex., 28. 6. 2011, 5/9; 1 ex., 20. 5. 2011, 7/3; 1 ex., 28. 4. 2011, 7/4; 1 ex., 28. 4. 2011, 7/7; 1 ex., 28. 4. 2011, 7/8;

Amara montivaga Sturm, 1825

Sporadic to common species in Bohemia, in Moravia sporadic species of unshaded grassy habitats (meadows, orchards, fields), known from lowlands to mountains. Data: 2 ex., 19. 5. 2010, 4/4; 1 ex., 22. 7. 2010, 5/1; 1 ex., 22. 7. 2010, 7/3; 3 ex., 22. 4. 2010, 7/4; 6 ex., 22. 4. 2010, 7/5; 3 ex., 19. 5. 2010, 7/5; 14 ex., 22. 4. 2010, 7/6; 1 ex., 19. 5. 2010, 7/6; 1 ex., 22. 8. 2011, 3/1; 1 ex., 22. 8. 2011, 4/8; 1 ex., 30. 9. 2011, 5/3; 1 ex., 22. 8. 2011, 7/1; 1 ex., 22. 8. 2011, 7/3; 1 ex., 28. 4. 2011, 7/4; 1 ex., 20. 5. 2011, 7/7; 3 ex., 22. 8. 2011, 7/8.

Amara ovata (Fabricius, 1792)

Very common species, indifferent to shade (fields, meadows, shrubby habitats), known from lowlands to mountains, mostly in hills. Data: 1 ex., 19. 5. 2010, 2/1; 1 ex., 22. 4. 2010, 2/4; 1 ex., 22. 4. 2010, 2/6; 2 ex., 19. 5. 2010, 2/6; 1 ex., 22. 4. 2010, 2/7; 2 ex., 19. 5. 2010, 2/7; 1 ex., 28. 6. 2010, 2/7; 3 ex., 28. 6. 2010, 2/8; 2 ex., 19. 5. 2010, 2/9; 3 ex., 22. 4. 2010, 5/2; 2 ex., 19. 5. 2010, 5/3; 1 ex., 19. 5. 2010, 7/3; 1 ex., 19. 5. 2010, 7/6; 1 ex., 22. 4. 2010, 7/7; 1 ex., 28. 6. 2011, 2/3; 2 ex., 28. 4. 2011, 2/6; 1 ex., 28. 4. 2011, 7/1; 1 ex., 20. 5. 2011, 7/5; 1 ex., 28. 4. 2011, 7/9; 1 ex., 20. 5. 2011, 7/9.

Amara plebeja (Gyllenhal, 1810)

Very common species of moderately dry to moist habitats (meadows, margins of waters with vegetation, fields), known from lowlands to mountains. Data: 1 ex., 19. 5. 2010, 7/3; 1 ex., 20. 5. 2011, 2/6; 1 ex., 28. 7. 2011, 3/4; 4 ex., 28. 7. 2011, 3/6; 1 ex., 28. 7. 2011, 3/8; 1 ex., 22. 8. 2011, 3/8; 2 ex., 28. 7. 2011, 5/1; 1 ex., 28. 6. 2011, 5/8; 1 ex., 22. 8. 2011, 6/5; 1 ex., 28. 7. 2011, 7/1; 1 ex., 20. 5. 2011, 7/4; 1 ex., 20. 5. 2011, 7/9.

Amara similata (Gyllenhal, 1810)

Very common species, in dry to moderately moist, unshaded habitats (fields, meadows, ruderals), from lowlands to mountains, mostly in hills. Data: 2 ex., 22. 4. 2010, 2/4; 1 ex., 22. 4. 2010, 2/7; 1 ex., 22. 4. 2010, 5/2; 1 ex., 28. 7. 2011, 2/1; 1 ex., 28. 4. 2011, 2/7; 1 ex., 20. 5. 2011, 3/4; 1 ex., 20. 5. 2011, 3/6; 1 ex., 28. 6. 2011, 4/7; 1 ex., 20. 5. 2011, 6/3; 1 ex., 20. 5. 2011, 6/9; 1 ex., 20. 5. 2011, 7/4; 1 ex., 28. 4. 2011, 7/6; 1 ex., 28. 4. 2011, 7/7; 1 ex., 20. 5. 2011, 7/9.

Amara tibialis (Paykull, 1798)

Common to sporadic species in dry to moderately dry, unshaded habitats (steppe, heaths, often on sandy ground), known from lowlands to mountains. Data: 1 ex., 28. 4. 2011, 2/7.

Anchomenus dorsalis (Pontoppidan, 1763)

Very common of unshaded, dry to moderately moist habitats, known from lowlands to mountains, often gregariously. Data: 3 ex., 22. 4. 2010, 1/2; 1 ex., 19. 5. 2010, 1/2; 1 ex., 22. 7. 2010, 1/6; 1 ex., 19. 5. 2010, 1/7; 46 ex., 19. 5. 2010, 2/1; 2 ex., 22. 4. 2010,

2/2; 6 ex., 19. 5. 2010, 2/2; 4 ex., 22. 4. 2010, 2/3; 1 ex., 28. 4. 2010, 2/4; 3 ex., 19. 5. 2010, 2/6; 1 ex., 26. 8. 2010, 2/6; 1 ex., 22. 4. 2010, 2/7; 1 ex., 19. 5. 2010, 2/7; 1 ex., 22. 4. 2010, 2/8; 3 ex., 19. 5. 2010, 2/9; 1 ex., 19. 5. 2010, 3/2; 3 ex., 28. 6. 2010, 3/3; 4 ex., 22. 7. 2010, 3/3; 1 ex., 22. 4. 2010, 3/6; 1 ex., 28. 6. 2010, 3/8; 1 ex., 22. 7. 2010, 3/8; 6 ex., 19. 5. 2010, 3/9; 1 ex., 22. 4. 2010, 4/1; 5 ex., 19. 5. 2010, 4/1; 1 ex., 28. 6. 2010, 4/1; 1 ex., 19. 5. 2010, 4/2; 1 ex., 22. 4. 2010, 4/3; 1 ex., 22. 4. 2010, 4/4; 32 ex., 22. 7. 2010, 4/7; 4 ex., 19. 5. 2010, 4/8; 1 ex., 22. 7. 2010, 4/8; 4 ex., 22. 4. 2010, 4/9; 26 ex., 19. 5. 2010, 4/9; 1 ex., 22. 4. 2010, 5/1; 2 ex., 22. 4. 2010, 5/2; 3 ex., 19. 5. 2010, 5/2; 4 ex., 19. 5. 2010, 5/5; 4 ex., 19. 5. 2010, 5/7; 1 ex., 19. 5. 2010, 5/8; 1 ex., 22. 7. 2010, 6/2; 1 ex., 22. 7. 2010, 6/4; 2 ex., 19. 5. 2010, 6/8; 12 ex., 19. 5. 2010, 6/9; 5 ex., 28. 6. 2010, 6/9; 4 ex., 22. 4. 2010, 7/1; 2 ex., 22. 4. 2010, 7/2; 4 ex., 19. 5. 2010, 7/2; 46 ex., 19. 5. 2010, 7/5; 6 ex., 19. 5. 2010, 7/6; 2 ex., 22. 4. 2010, 7/8; 4 ex., 22. 9. 2010, 7/8; 3 ex., 22. 4. 2010, 7/9; 58 ex., 19. 5. 2010, 7/9; 2 ex., 22. 7. 2010, 7/9; 1 ex., 20. 5. 2011, 1/1; 3 ex., 28. 6. 2011, 1/2; 1 ex., 28. 4. 2011, 1/7; 3 ex., 28. 6. 2011, 1/7; 1 ex., 20. 5. 2011, 1/9; 5 ex., 28. 4. 2011, 2/1; 26 ex., 20. 5. 2011, 2/1; 1 ex., 28. 7. 2011, 2/1; 2 ex., 28. 4. 2011, 2/2; 4 ex., 20. 5. 2011, 2/2; 3 ex., 28. 6. 2011, 2/2; 1 ex., 30. 9. 2011, 2/2; 2 ex., 28. 4. 2011, 2/3; 1 ex., 20. 5. 2011, 2/3; 2 ex., 28. 6. 2011, 2/3; 1 ex., 28. 4. 2011, 2/4; 1 ex., 20. 5. 2011, 2/4; 1 ex., 28. 4. 2011, 2/5; 3 ex., 28. 6. 2011, 2/5; 1 ex., 28. 7. 2011, 2/5; 1 ex., 22. 8. 2011, 2/5; 3 ex., 28. 6. 2011, 2/6; 1 ex., 22. 8. 2011, 2/7; 2 ex., 28. 4. 2011, 2/8; 1 ex., 28. 4. 2011, 2/9; 1 ex., 20. 5. 2011, 2/9; 19 ex., 28. 6. 2011, 2/9; 2 ex., 22. 8. 2011, 2/9; 2 ex., 20. 5. 2011, 3/2; 4 ex., 28. 6. 2011, 3/2; 7 ex., 28. 6. 2011, 3/3; 2 ex., 20. 5. 2011, 3/4; 2 ex., 20. 5. 2011, 3/5; 10 ex., 28. 6. 2011, 3/5; 2 ex., 28. 7. 2011, 3/6; 7 ex., 28. 6. 2011, 3/7; 3 ex., 20. 5. 2011, 3/8; 3 ex., 28. 7. 2011, 3/8; 1 ex., 28. 7. 2011, 3/9; 1 ex., 20. 5. 2011, 4/1; 1 ex., 22. 8. 2011, 4/1; 3 ex., 28. 6. 2011, 4/2; 4 ex., 28. 4. 2011, 4/3; 2 ex., 20. 5. 2011, 4/3; 1 ex., 28. 7. 2011, 4/3; 1 ex., 20. 5. 2011, 4/4; 1 ex., 20. 5. 2011, 4/5; 1 ex., 28. 4. 2011, 4/6; 1 ex., 28. 6. 2011, 4/6; 1 ex., 20. 5. 2011, 4/7; 1 ex., 20. 5. 2011, 4/8; 1 ex., 22. 8. 2011, 4/8; 1 ex., 30. 9. 2011, 4/8; 1 ex., 28. 4. 2011, 4/9; 1 ex., 28. 6. 2011, 4/9; 1 ex., 28. 4. 2011, 5/5; 1 ex., 28. 4. 2011, 5/6; 1 ex., 28. 4. 2011, 5/8; 1 ex., 28. 4. 2011, 5/9; 1 ex., 28. 6. 2011, 6/2; 3 ex., 20. 5. 2011, 6/3; 2 ex., 28. 4. 2011, 6/7; 2 ex., 20. 5. 2011, 6/7; 3 ex., 28. 6. 2011, 6/7; 1 ex., 20. 5. 2011, 6/8; 5 ex., 28. 6. 2011, 6/8; 2 ex., 28. 7. 2011, 6/9; 3 ex., 20. 5. 2011, 7/1; 42 ex., 28. 6. 2011, 7/1; 2 ex., 22. 8. 2011, 7/1; 1 ex., 28. 4. 2011, 7/2; 3 ex., 20. 5. 2011, 7/2; 5 ex., 28. 4. 2011, 7/3; 4 ex., 28. 4. 2011, 7/4; 6 ex., 20. 5. 2011, 7/4; 10 ex., 28. 6. 2011, 7/4; 2 ex., 20. 5. 2011, 7/5; 4 ex., 28. 4. 2011, 7/6; 1 ex., 20. 5. 2011, 7/6; 1 ex., 28. 4. 2011, 7/7; 7 ex., 28. 4. 2011, 7/8; 2 ex., 28. 7. 2011, 7/8; 5 ex., 28. 4. 2011, 7/9; 1 ex., 22. 8. 2011, 7/9; 1 ex., 30. 9. 2011, 7/9.

Anisodactylus binotatus (Fabricius, 1787)

Very common species, eurytopic species (meadows, water margins with vegetation, fields, ruderals), known from lowlands to mountains. Data: 1 ex., 20. 5. 2011, 3/5.

Anisodactylus signatus (Panzer, 1797)

Common to sporadic species in moderately dry to moist, unshaded habitats, mainly on sandy-loamy ground (grassy water edges, sand pits, fields, saline habitats), known from lowlands to mountains. Data: 1 ex., 28. 4. 2011, 2/7; 1 ex., 20. 5. 2011, 3/4; 1 ex., 28. 4. 2011, 7/9.

Aptinus bombarda (Illiger, 1800)

Species known from Moravia only and very local, but locally common. From the Czech Republic is known practically from Moravian Karst PLA only (Uhlíková, 2009). Data: 1 ex., 22. 7. 2010, 3/2; 64 ex., 28. 6. 2010, 3/3; 1 ex., 22. 9. 2010, 5/1; 1 ex., 19. 5. 2010, 5/2; 2 ex., 28. 6. 2010, 5/2; 1 ex., 22. 7. 2010, 5/2; 1 ex., 26. 8. 2010, 5/3; 54 ex., 28. 6. 2010, 5/4; 7 ex., 19. 5. 2010, 5/5; 56 ex., 28. 6. 2010, 5/5; 4 ex., 22. 7. 2010, 5/5; 4 ex., 28. 6. 2010, 5/7; 1 ex., 26. 8. 2010, 5/7; 1 ex., 22. 7. 2010, 5/8; 1 ex., 22. 7. 2010, 5/9; 1 ex., 22. 7. 2010, 6/7; 1 ex., 28. 6. 2011, 2/2; 1 ex., 22. 8. 2011, 3/7; 1 ex., 28. 6. 2011, 4/4; 10 ex., 20. 5. 2011, 5/3; 33 ex., 28. 6. 2011, 5/3; 10 ex., 28. 6. 2011, 5/4; 1 ex., 20. 5. 2011, 5/5; 2 ex., 28. 6. 2011, 5/5; 1 ex., 20. 5. 2011, 5/6; 1 ex., 28. 6. 2011, 5/6; 2 ex., 28. 7. 2011, 5/6; 14 ex., 28. 6. 2011, 5/7; 1 ex., 28. 6. 2011, 5/8; 1 ex., 28. 7. 2011, 5/8; 2 ex., 28. 6. 2011, 5/9; 2 ex., 28. 6. 2011, 6/7.

Asaphidion flavipes (Linnaeus, 1761)

Very common species in moist to moderately moist, preferably not shaded or slightly shaded habitats (clayish water margins, edges of floodplain forests, meadows), known from lowlands to mountains. Data: 1 ex., 20. 5. 2011, 2/6.

Bembidion lampros (Herbst, 1784)

Very common species on dry to moderately moist, unshaded habitats (fields, pastures, meadows, far from water), known from lowlands to mountains. Data: 1 ex., 22. 4. 2010, 2/7; 1 ex., 22. 4. 2010, 7/9; 1 ex., 20. 5. 2011, 1/9; 1 ex., 28. 6. 2011, 1/9; 1 ex., 20. 5. 2011, 2/1; 1 ex., 28. 6. 2011, 2/8; 1 ex., 22. 8. 2011, 5/9; 1 ex., 28. 4. 2011, 6/3; 4 ex., 28. 4. 2011, 7/1; 3 ex., 28. 6. 2011, 7/1; 1 ex., 28. 4. 2011, 7/5; 3 ex., 28. 4. 2011, 7/7; 1 ex., 28. 4. 2011, 7/8; 1 ex., 22. 8. 2011, 7/8; 10 ex., 28. 4. 2011, 7/9; 1 ex., 20. 5. 2011, 7/9.

Bembidion properans (Stephens, 1828)

Common species in unshaded drier or moist habitats (meadows, grassy, loamy edges of waters etc.), known from lowlands to foothills. Data: 1 ex., 22. 4. 2010, 2/3; 1 ex., 19. 5. 2010, 7/9; 1 ex., 28. 6. 2011, 1/9; 2 ex., 20. 5. 2011, 2/1; 1 ex., 22. 8. 2011, 5/2; 1 ex., 28. 6. 2011, 7/1; 4 ex., 28. 4. 2011, 7/9; 1 ex., 20. 5. 2011, 7/9.

Bembidion quadrimaculatum (Linnaeus, 1761)

Very common species in both drier and moist, unshaded or partly shaded habitats (fields, meadows, even far from water), known from lowlands to mountains. Data: 1 ex., 28. 4. 2011, 7/9.

Brachinus crepitans (Linnaeus, 1758)

Common species, but relatively local and on decline recently. Known from unshaded, dry to semimoist habitats (steppe, fields), from lowlands to foothills. Data: 1 ex., 22. 4. 2010, 2/3; 1 ex., 22. 4. 2010, 2/7; 1 ex., 19. 5. 2010, 4/8; 1 ex., 19. 5. 2010, 5/2; 2 ex., 19. 5. 2010, 5/5; 2 ex., 19. 5. 2010, 7/5; 1 ex., 19. 5. 2010, 7/6.

Brachinus explodens Duftschmid, 1812

Common species of sunny, dry to semimoist habitats (steppe, fields), known from lowlands to mountains. Data: 1 ex., 22. 7. 2010, 7/9; 1 ex., 28. 4. 2011, 2/1; 2 ex., 20. 5. 2011, 2/1; 2 ex., 20. 5. 2011, 2/2; 1 ex., 20. 5. 2011, 2/5; 1 ex., 28. 4. 2011, 2/6; 1 ex., 20. 5. 2011, 2/8; 4 ex., 28. 7. 2011, 3/1; 1 ex., 28. 7. 2011, 4/1; 1 ex., 20. 5. 2011, 4/8; 2 ex., 28. 6. 2011, 4/9; 1 ex., 28. 7. 2011, 3/4; 1 ex., 28. 7. 2011, 3/6; 1 ex., 22. 8. 2011, 3/7; 1 ex., 20. 5. 2011, 4/1; 4 ex., 28. 6. 2011, 4/2; 1 ex., 28. 6. 2011, 4/7; 3 ex., 28. 6. 2011, 4/9; 1 ex., 28. 4. 2011, 5/9; 1 ex., 20. 5. 2011, 6/2; 1 ex., 20. 5. 2011, 6/9; 1 ex., 28. 6. 2011, 7/1; 1 ex., 20. 5. 2011, 7/2; 1 ex., 28. 6. 2011, 7/4; 1 ex., 28. 4. 2011, 7/7.

Calathus fuscipes (Goeze, 1777)

Very common species of unshaded, rather dry habitat (meadows, fields, balks, steppe), known from lowlands to mountains. Data: 2 ex., 22. 9. 2010, 1/7; 1 ex., 19. 5. 2010, 4/4; 1 ex., 22. 4. 2010, 4/9; 1 ex., 22. 7. 2010, 6/2; 2 ex., 22. 8. 2011, 1/1; 2 ex., 22. 8. 2011, 1/2; 4 ex., 30. 9. 2011, 1/2; 1 ex., 28. 7. 2011, 1/3; 1 ex., 28. 7. 2011, 1/5; 1 ex., 22. 8. 2011, 1/5; 1 ex., 28. 7. 2011, 1/6; 1 ex., 28. 7. 2011, 1/7; 1 ex., 22. 8. 2011, 1/7; 1 ex., 22. 8. 2011, 1/8; 4 ex., 30. 9. 2011, 1/8; 2 ex., 22. 8. 2011, 1/9; 1 ex., 22. 8. 2011, 2/3; 1 ex., 22. 8. 2011, 2/8; 3 ex., 22. 8. 2011, 2/9; 2 ex., 22. 8. 2011, 3/1; 5 ex., 30. 9. 2011, 3/1; 1 ex., 30. 9. 2011, 3/3; 2 ex., 22. 8. 2011, 3/4; 1 ex., 28. 7. 2011, 3/7; 2 ex., 22. 8. 2011, 3/7; 1 ex., 22. 8. 2011, 3/8; 3 ex., 30. 9. 2011, 3/9; 1 ex., 28. 7. 2011, 4/1; 3 ex., 22. 8. 2011, 4/1; 19 ex., 30. 9. 2011, 4/1; 1 ex., 22. 8. 2011, 4/2; 2 ex., 22. 8. 2011, 4/5; 1 ex., 22. 8. 2011, 4/6; 1 ex., 22. 8. 2011, 4/7; 1 ex., 30. 9. 2011, 4/7; 1 ex., 30. 9. 2011, 4/8; 7 ex., 22. 8. 2011, 4/9; 19 ex., 30. 9. 2011, 4/9; 1 ex., 28. 7. 2011, 5/6; 1 ex., 30. 9. 2011, 5/6; 1 ex., 22. 8. 2011, 6/1; 1 ex., 28. 6. 2011, 6/2; 1 ex., 22. 8. 2011, 6/2; 2 ex., 28. 7. 2011, 6/3; 1 ex., 22. 8. 2011, 6/4; 1 ex., 22. 8. 2011, 6/5; 1 ex., 30. 9. 2011, 6/6; 2 ex., 30. 9. 2011, 6/7; 6 ex., 30. 9. 2011, 6/8; 2 ex., 22. 8. 2011, 6/9; 5 ex., 28. 6. 2011, 7/1; 7 ex., 22. 8. 2011, 7/1; 2 ex., 30. 9. 2011, 7/2; 5 ex., 28. 7. 2011, 7/3; 9 ex., 22. 8. 2011, 7/3; 5 ex., 30. 9. 2011, 7/3; 1 ex., 20. 5. 2011, 7/4; 1 ex., 28. 6. 2011, 7/4; 2 ex., 30. 9. 2011, 7/5; 1 ex., 20. 5. 2011, 7/6; 1 ex., 28. 7. 2011, 7/6; 1 ex., 22. 8. 2011, 7/6; 2 ex., 20. 5. 2011, 7/7; 1 ex., 28. 7. 2011, 7/7; 2 ex., 22. 8. 2011, 7/7; 2 ex., 30. 9. 2011, 7/7; 2 ex., 28. 7. 2011, 7/8; 2 ex., 30. 9. 2011, 7/8; 1 ex., 28. 7. 2011, 7/9; 12 ex., 22. 8. 2011, 7/9; 14 ex., 30. 9. 2011, 7/9.

Calathus melanocephalus (Linnaeus, 1758)

Very common species of mainly unshaded or moderately shaded habitats (fields, steppe), known lowlands to mountains. Data: 1 ex., 30. 9. 2011, 7/9.

Carabus cancellatus Illiger, 1798

Common species of all types types on natural habitats occurring from lowlands to middle mountain elevations. Data: 1 ex., 22. 4. 2010, 1/1; 25 ex., 19. 5. 2010, 1/1; 4 ex., 22. 7. 2010, 1/1; 3 ex., 26. 8. 2010, 1/1; 4 ex., 19. 5. 2010, 1/2; 1 ex., 22. 7. 2010, 1/2; 15 ex., 26. 8. 2010, 1/2; 4 ex., 22. 9. 2010, 1/2; 2 ex., 22. 4. 2010, 1/3; 15 ex., 19. 5. 2010, 1/3; 2 ex., 28. 6. 2010, 1/3; 8 ex., 22. 7. 2010, 1/3; 9 ex., 26. 8. 2010, 1/3; 3 ex., 22. 9. 2010, 1/3; 24 ex., 19. 5. 2010, 1/4; 18 ex., 28. 6. 2010, 1/4; 26 ex., 26. 8. 2010, 1/4; 12 ex., 22. 9. 2010, 1/4; 11 ex., 19. 5. 2010, 1/5; 36 ex., 28. 6. 2010, 1/5; 9 ex., 22. 7. 2010, 1/5; 8 ex., 26. 8. 2010, 1/5; 3 ex., 19. 5. 2010, 1/6; 6 ex., 28. 6. 2010, 1/6; 2 ex., 22. 7. 2010, 1/6; 21 ex., 26. 8. 2010, 1/6; 1 ex., 22. 9. 2010, 1/6; 3 ex., 19. 5. 2010, 1/7; 3 ex., 28. 6. 2010, 1/7; 1 ex., 22. 7. 2010, 1/7; 18 ex., 26. 8. 2010, 1/7; 9 ex., 19. 5. 2010, 1/8; 6 ex., 22. 7. 2010, 1/8; 12 ex., 19. 5. 2010, 1/9; 6 ex., 22. 7. 2010, 1/9; 41 ex., 26. 8. 2010, 1/9; 2 ex., 19. 5. 2010, 2/1; 1 ex., 19. 5. 2010, 2/2; 1 ex., 28. 6. 2010, 2/2; 1 ex., 19. 5. 2010, 2/3; 1 ex., 28. 6. 2010, 2/3; 8 ex., 19. 5. 2010, 2/4; 7 ex., 22. 4. 2010, 2/5; 1 ex., 22. 4. 2010, 2/6; 1 ex., 19. 5. 2010, 2/6; 2 ex., 28. 6. 2010, 2/7; 1 ex., 22. 7. 2010, 2/8; 2 ex., 28. 6. 2010, 2/9; 1 ex., 22. 7. 2010, 3/1; 1 ex., 26. 8. 2010, 3/3; 3 ex., 19. 5. 2010, 3/4; 3 ex., 19. 5. 2010, 3/5; 7 ex., 19. 5. 2010, 3/9; 1 ex., 28. 6. 2010, 4/2; 1 ex., 28. 6. 2010, 4/5; 1 ex., 22. 4. 2010, 4/7; 1 ex., 28. 6. 2010, 4/7; 2 ex., 28. 6. 2010, 4/9; 1 ex., 22. 4. 2010, 5/2; 1 ex., 19. 5. 2010, 5/4; 4 ex., 28. 6. 2010, 5/7; 1 ex., 28. 6. 2010, 6/1; 1 ex., 19. 5. 2010, 6/3; 1 ex., 28. 6. 2010, 6/5; 1 ex., 19. 5. 2010, 6/8; 1 ex., 19. 5. 2010, 6/9; 3 ex., 22. 7. 2010, 7/7; 6 ex., 28. 4. 2011, 1/1; 4 ex., 20. 5. 2011, 1/1; 11 ex., 28. 6. 2011, 1/1; 1 ex., 22. 8. 2011, 1/1; 7 ex., 28. 4. 2011, 1/2; 6 ex., 20. 5. 2011, 1/2; 8 ex., 28. 6. 2011, 1/2; 3 ex., 28. 7. 2011, 1/2; 6 ex., 22. 8. 2011, 1/2; 5 ex., 28. 4. 2011, 1/3; 4 ex., 28. 6. 2011, 1/3; 6 ex., 28. 7. 2011, 1/3; 5 ex., 22. 8. 2011, 1/3; 25 ex., 30. 9. 2011, 1/3; 29 ex., 28. 4. 2011, 1/4; 25 ex., 20. 5. 2011, 1/4; 3 ex., 28. 6. 2011, 1/4; 1 ex., 22. 8. 2011, 1/4; 9 ex., 28. 4. 2011, 1/5; 3 ex., 20. 5. 2011, 1/5; 1 ex., 28. 6. 2011, 1/5; 3 ex., 28. 7. 2011, 1/5; 3 ex., 22. 8. 2011, 1/5; 11 ex., 28. 4. 2011, 1/6; 14 ex., 20. 5. 2011, 1/6; 9 ex., 28. 7. 2011, 1/6; 7 ex., 22. 8. 2011, 1/6; 28 ex., 30. 9. 2011, 1/6; 16 ex., 28. 4. 2011, 1/7; 20 ex., 20. 5. 2011, 1/7; 4 ex., 28. 6. 2011, 1/7; 9 ex., 28. 7. 2011, 1/7; 6 ex., 22. 8. 2011, 1/7; 15 ex., 30. 9. 2011, 1/7; 4 ex., 28. 4. 2011, 1/8; 7 ex., 20. 5. 2011, 1/8; 1 ex., 28. 6. 2011, 1/8; 7 ex., 28. 7. 2011, 1/8; 3 ex., 22. 8. 2011, 1/8; 37 ex., 30. 9. 2011, 1/8; 7 ex., 28. 4. 2011, 1/9; 16 ex., 20. 5. 2011, 1/9; 1 ex., 28. 6. 2011, 1/9; 6 ex., 28. 7. 2011, 1/9; 8 ex., 22. 8. 2011, 1/9; 10 ex., 30. 9. 2011, 1/9; 1 ex., 28. 4. 2011, 2/1; 5 ex., 20. 5. 2011, 2/1; 1 ex., 28. 7. 2011, 2/1; 1 ex., 22. 8. 2011, 2/1; 3 ex., 20. 5. 2011, 2/2; 1 ex., 28. 6. 2011, 2/2; 2 ex., 20. 5. 2011, 2/3; 2 ex., 28. 6. 2011, 2/4; 2 ex., 28. 4. 2011, 2/7; 2 ex., 20. 5. 2011, 2/7; 1 ex., 28. 6. 2011, 2/7; 1 ex., 22. 8. 2011, 2/7; 1 ex., 28. 6. 2011, 2/8; 3 ex., 20. 5.

2011, 2/9; 3 ex., 28. 6. 2011, 2/9; 2 ex., 28. 7. 2011, 2/9; 1 ex., 28. 7. 2011, 3/1; 1 ex., 22. 8. 2011, 3/1; 1 ex., 28. 7. 2011, 3/2; 1 ex., 28. 4. 2011, 3/4; 2 ex., 20. 5. 2011, 3/4; 11 ex., 28. 7. 2011, 4/1; 1 ex., 28. 4. 2011, 4/2; 1 ex., 28. 7. 2011, 4/6; 1 ex., 28. 6. 2011, 4/8; 1 ex., 28. 4. 2011, 4/9; 2 ex., 28. 7. 2011, 6/2; 1 ex., 28. 6. 2011, 7/1; 1 ex., 28. 4. 2011, 7/6; 1 ex., 20. 5. 2011, 7/6; 1 ex., 28. 4. 2011, 7/9. **NT**

Carabus convexus Fabricius, 1775

Common species across whole territory of the Czech Republic known from slightly shaded habitats. Data: 1 ex., 22. 4. 2010, 4/8; 1 ex., 22. 4. 2010, 6/5; 3 ex., 20. 5. 2011, 1/3; 1 ex., 28. 4. 2011, 4/8; 1 ex., 28. 4. 2011, 5/1; 2 ex., 28. 4. 2011, 6/3; 1 ex., 28. 4. 2011, 6/4; 1 ex., 28. 4. 2011, 6/5; 2 ex., 28. 4. 2011, 6/7; 1 ex., 20. 5. 2011, 6/7.

Carabus granulatus Linnaeus, 1758

Common species of both unshaded and shaded habitats known from lowlands to mountains. Data: 2 ex., 22. 4. 2010, 1/2; 4 ex., 28. 6. 2010, 1/2; 2 ex., 22. 4. 2010, 1/3; 6 ex., 19. 5. 2010, 1/3; 1 ex., 22. 4. 2010, 1/4; 6 ex., 22. 7. 2010, 1/4; 2 ex., 28. 6. 2010, 1/5; 1 ex., 22. 4. 2010, 1/6; 8 ex., 22. 7. 2010, 1/8; 3 ex., 19. 5. 2010, 2/1; 1 ex., 28. 6. 2010, 2/2; 2 ex., 19. 5. 2010, 2/2; 1 ex., 22. 4. 2010, 2/3; 1 ex., 28. 6. 2010, 2/5; 1 ex., 22. 4. 2010, 2/7; 1 ex., 19. 5. 2010, 2/7; 2 ex., 22. 4. 2010, 2/8; 6 ex., 28. 6. 2010, 2/8; 1 ex., 19. 5. 2010, 2/9; 1 ex., 22. 4. 2010, 3/3; 1 ex., 22. 4. 2010, 3/4; 1 ex., 19. 5. 2010, 3/4; 1 ex., 26. 8. 2010, 3/5; 4 ex., 22. 4. 2010, 3/6; 3 ex., 19. 5. 2010, 3/8; 1 ex., 26. 8. 2010, 3/8; 1 ex., 28. 6. 2010, 3/9; 2 ex., 19. 5. 2010, 4/5; 1 ex., 22. 9. 2010, 5/2; 1 ex., 28. 6. 2010, 6/2; 2 ex., 22. 4. 2010, 6/3; 2 ex., 28. 6. 2010, 6/7; 1 ex., 19. 5. 2010, 7/1; 1 ex., 22. 4. 2010, 7/5; 1 ex., 26. 8. 2010, 7/5; 1 ex., 26. 8. 2010, 7/8; 1 ex., 20. 5. 2011, 1/1; 1 ex., 28. 4. 2011, 1/3; 1 ex., 28. 6. 2011, 1/3; 4 ex., 28. 4. 2011, 1/4; 2 ex., 22. 8. 2011, 1/4; 2 ex., 20. 5. 2011, 1/5; 1 ex., 28. 6. 2011, 1/5; 3 ex., 28. 7. 2011, 1/5; 2 ex., 28. 4. 2011, 1/6; 1 ex., 20. 5. 2011, 1/6; 1 ex., 28. 7. 2011, 1/6; 1 ex., 20. 5. 2011, 1/7; 1 ex., 20. 5. 2011, 1/9; 2 ex., 28. 4. 2011, 2/1; 9 ex., 20. 5. 2011, 2/1; 1 ex., 22. 8. 2011, 2/1; 2 ex., 20. 5. 2011, 2/2; 5 ex., 28. 6. 2011, 2/2; 1 ex., 28. 7. 2011, 2/2; 1 ex., 28. 4. 2011, 2/3; 4 ex., 28. 4. 2011, 2/4; 2 ex., 22. 8. 2011, 2/4; 1 ex., 30. 9. 2011, 2/4; 1 ex., 20. 5. 2011, 2/5; 8 ex., 28. 6. 2011, 2/5; 2 ex., 28. 7. 2011, 2/5; 2 ex., 28. 4. 2011, 2/6; 1 ex., 20. 5. 2011, 2/6; 1 ex., 28. 4. 2011, 2/7; 1 ex., 20. 5. 2011, 2/7; 1 ex., 28. 6. 2011, 2/7; 1 ex., 30. 9. 2011, 2/7; 1 ex., 28. 4. 2011, 2/8; 3 ex., 20. 5. 2011, 2/9; 3 ex., 28. 6. 2011, 2/9; 4 ex., 28. 7. 2011, 2/9; 3 ex., 22. 8. 2011, 2/9; 1 ex., 20. 5. 2011, 3/1; 1 ex., 22. 8. 2011, 3/1; 5 ex., 20. 5. 2011, 3/2; 5 ex., 28. 6. 2011, 3/2; 2 ex., 22. 8. 2011, 3/2; 1 ex., 28. 4. 2011, 3/3; 4 ex., 20. 5. 2011, 3/3; 7 ex., 28. 6. 2011, 3/3; 2 ex., 22. 8. 2011, 3/3; 3 ex., 20. 5. 2011, 3/4; 1 ex., 28. 7. 2011, 3/4; 4 ex., 22. 8. 2011, 3/4; 5 ex., 28. 4. 2011, 3/5; 4 ex., 20. 5. 2011, 3/5; 8 ex., 28. 6. 2011, 3/5; 4 ex., 28. 7. 2011, 3/5; 1 ex., 22. 8. 2011, 3/5; 1 ex., 28. 4. 2011, 3/6; 5 ex., 28. 7. 2011, 3/6; 2 ex., 22. 8. 2011, 3/6; 1 ex., 28. 4. 2011, 3/7; 2 ex., 20. 5. 2011, 3/7; 6 ex., 28. 6. 2011, 3/7; 7 ex., 28. 7. 2011, 3/7; 4 ex., 22. 8. 2011, 3/7; 1 ex., 30. 9.

2011, 3/7; 1 ex., 28. 4. 2011, 3/8; 5 ex., 20. 5. 2011, 3/8; 1 ex., 28. 6. 2011, 3/8; 2 ex., 28. 7. 2011, 3/8; 3 ex., 22. 8. 2011, 3/8; 5 ex., 28. 4. 2011, 3/9; 7 ex., 20. 5. 2011, 3/9; 2 ex., 28. 7. 2011, 3/9; 2 ex., 28. 4. 2011, 4/4; 2 ex., 20. 5. 2011, 4/5; 2 ex., 28. 4. 2011, 4/6; 3 ex., 20. 5. 2011, 4/6; 1 ex., 28. 4. 2011, 4/7; 1 ex., 20. 5. 2011, 4/7; 1 ex., 20. 5. 2011, 4/8; 1 ex., 28. 4. 2011, 4/9; 1 ex., 20. 5. 2011, 5/3; 1 ex., 28. 4. 2011, 5/4; 1 ex., 28. 7. 2011, 6/4; 2 ex., 20. 5. 2011, 6/5; 1 ex., 28. 4. 2011, 6/7; 1 ex., 28. 7. 2011, 6/7; 1 ex., 28. 4. 2011, 7/4; 1 ex., 28. 4. 2011, 7/5; 2 ex., 20. 5. 2011, 7/5; 1 ex., 28. 4. 2011, 7/6; 2 ex., 20. 5. 2011, 7/6; 2 ex., 22. 8. 2011, 7/9.

Carabus hortensis Linnaeus, 1758

Very common species of coiferous and deciduous forests known from lowlands to mountains. Data: 1 ex., 28. 6. 2011, 7/4.

Carabus intricatus Linnaeus, 1761

Sporadic in warmer situations, mainly in open forests. Data: 1 ex., 22. 4. 2010, 6/6; 1 ex., 28. 6. 2011, 6/3.

Carabus nemoralis O. F. Müller, 1764

Very common species of shaded habitats occurring from lowlands to mountains. Data: 1 ex., 28. 6. 2011, 1/7.

Carabus ullrichii Germar, 1824

Common but declining species of open habitats known from lowlands to foothills. Data: 19 ex., 22. 4. 2010, 1/1; 134 ex., 19. 5. 2010, 1/1; 6 ex., 22. 7. 2010, 1/1; 8 ex., 26. 8. 2010, 1/1; 20 ex., 22. 9. 2010, 1/1; 16 ex., 22. 4. 2010, 1/2; 56 ex., 19. 5. 2010, 1/2; 36 ex., 28. 6. 2010, 1/2; 2 ex., 22. 7. 2010, 1/2; 134 ex., 26. 8. 2010, 1/2; 2 ex., 22. 9. 2010, 1/2; 33 ex., 22. 4. 2010, 1/3; 126 ex., 19. 5. 2010, 1/3; 24 ex., 28. 6. 2010, 1/3; 5 ex., 22. 7. 2010, 1/3; 38 ex., 26. 8. 2010, 1/3; 35 ex., 22. 9. 2010, 1/3; 20 ex., 22. 4. 2010, 1/4; 221 ex., 19. 5. 2010, 1/4; 146 ex., 28. 6. 2010, 1/4; 9 ex., 22. 7. 2010, 1/4; 46 ex., 26. 8. 2010, 1/4; 28 ex., 22. 9. 2010, 1/4; 11 ex., 22. 4. 2010, 1/5; 76 ex., 19. 5. 2010, 1/5; 194 ex., 28. 6. 2010, 1/5; 12 ex., 22. 7. 2010, 1/5; 48 ex., 26. 8. 2010, 1/5; 4 ex., 22. 9. 2010, 1/5; 37 ex., 22. 4. 2010, 1/6; 96 ex., 19. 5. 2010, 1/6; 186 ex., 28. 6. 2010, 1/6; 23 ex., 22. 7. 2010, 1/6; 48 ex., 26. 8. 2010, 1/6; 7 ex., 22. 9. 2010, 1/6; 15 ex., 22. 4. 2010, 1/7; 36 ex., 19. 5. 2010, 1/7; 11 ex., 28. 6. 2010, 1/7; 7 ex., 22. 7. 2010, 1/7; 32 ex., 26. 8. 2010, 1/7; 6 ex., 22. 9. 2010, 1/7; 29 ex., 22. 4. 2010, 1/8; 123 ex., 19. 5. 2010, 1/8; 32 ex., 28. 6. 2010, 1/8; 64 ex., 22. 7. 2010, 1/8; 8 ex., 22. 9. 2010, 1/8; 14 ex., 22. 4. 2010, 1/9; 86 ex., 19. 5. 2010, 1/9; 12 ex., 22. 7. 2010, 1/9; 8 ex., 26. 8. 2010, 1/9; 7 ex., 22. 9. 2010, 1/9; 3 ex., 19. 5. 2010, 2/1; 17 ex., 19. 5. 2010, 2/2; 5 ex., 28. 6. 2010, 2/2; 6 ex., 22. 4. 2010, 2/3; 4 ex., 19. 5. 2010, 2/3; 12 ex., 28. 6. 2010, 2/3; 4 ex., 22. 9. 2010, 2/3; 13 ex., 22. 4. 2010, 2/4; 36 ex., 19. 5. 2010, 2/4; 28 ex., 28. 6. 2010, 2/4; 58 ex., 22. 4. 2010, 2/5; 48 ex., 19. 5. 2010, 2/5; 6 ex., 28. 6. 2010, 2/5; 17 ex., 22. 4. 2010, 2/6; 7 ex., 19. 5. 2010, 2/6; 5 ex., 22. 4. 2010, 2/7; 11 ex., 19. 5. 2010, 2/7; 19 ex., 28. 6. 2010, 2/7; 4 ex., 22. 7. 2010, 2/7; 12 ex., 22. 4. 2010, 2/8; 18 ex., 19. 5. 2010, 2/8; 16 ex., 28. 6. 2010, 2/8; 2 ex., 22. 7. 2010, 2/8; 8 ex., 22. 4.

2010, 2/9; 18 ex., 19. 5. 2010, 2/9; 6 ex., 28. 6. 2010, 2/9; 15 ex., 22. 4. 2010, 3/1; 3 ex., 19. 5. 2010, 3/1; 3 ex., 22. 7. 2010, 3/1; 10 ex., 26. 8. 2010, 3/1; 8 ex., 22. 4. 2010, 3/2; 96 ex., 19. 5. 2010, 3/2; 48 ex., 28. 6. 2010, 3/2; 8 ex., 22. 4. 2010, 3/3; 42 ex., 19. 5. 2010, 3/3; 6 ex., 28. 6. 2010, 3/3; 2 ex., 22. 7. 2010, 3/3; 8 ex., 26. 8. 2010, 3/3; 1 ex., 22. 9. 2010, 3/3; 13 ex., 22. 4. 2010, 3/4; 124 ex., 19. 5. 2010, 3/4; 46 ex., 28. 6. 2010, 3/4; 32 ex., 22. 7. 2010, 3/4; 1 ex., 26. 8. 2010, 3/4; 1 ex., 22. 9. 2010, 3/4; 2 ex., 22. 4. 2010, 3/5; 58 ex., 19. 5. 2010, 3/5; 26 ex., 28. 6. 2010, 3/5; 1 ex., 22. 7. 2010, 3/5; 14 ex., 22. 4. 2010, 3/6; 20 ex., 19. 5. 2010, 3/6; 30 ex., 28. 6. 2010, 3/6; 3 ex., 22. 7. 2010, 3/6; 24 ex., 22. 4. 2010, 3/7; 9 ex., 28. 6. 2010, 3/7; 9 ex., 26. 8. 2010, 3/7; 20 ex., 22. 4. 2010, 3/8; 46 ex., 19. 5. 2010, 3/8; 35 ex., 28. 6. 2010, 3/8; 2 ex., 22. 7. 2010, 3/8; 1 ex., 26. 8. 2010, 3/8; 16 ex., 22. 4. 2010, 3/9; 67 ex., 19. 5. 2010, 3/9; 46 ex., 28. 6. 2010, 3/9; 8 ex., 26. 8. 2010, 3/9; 1 ex., 19. 5. 2010, 4/1; 3 ex., 28. 6. 2010, 4/1; 1 ex., 22. 4. 2010, 4/2; 14 ex., 28. 6. 2010, 4/2; 1 ex., 22. 4. 2010, 4/3; 5 ex., 19. 5. 2010, 4/3; 1 ex., 28. 6. 2010, 4/3; 1 ex., 22. 4. 2010, 4/4; 28 ex., 19. 5. 2010, 4/4; 1 ex., 28. 6. 2010, 4/4; 1 ex., 26. 8. 2010, 4/4; 8 ex., 19. 5. 2010, 4/5; 12 ex., 28. 6. 2010, 4/5; 2 ex., 22. 7. 2010, 4/5; 1 ex., 26. 8. 2010, 4/5; 1 ex., 26. 8. 2010, 4/6; 2 ex., 22. 4. 2010, 4/7; 8 ex., 19. 5. 2010, 4/7; 11 ex., 28. 6. 2010, 4/7; 12 ex., 26. 8. 2010, 4/7; ex., 22. 7. 2010, 4/7; 1 ex., 22. 9. 2010, 4/7; 3 ex., 22. 4. 2010, 4/8; 2 ex., 19. 5. 2010, 4/8; 2 ex., 19. 5. 2010, 4/9; 1 ex., 26. 8. 2010, 4/9; 12 ex., 19. 5. 2010, 5/1; 1 ex., 22. 7. 2010, 5/1; 10 ex., 22. 4. 2010, 5/2; 11 ex., 19. 5. 2010, 5/2; 1 ex., 26. 8. 2010, 5/2; 2 ex., 28. 6. 2010, 5/3; 4 ex., 19. 5. 2010, 5/4; 1 ex., 19. 5. 2010, 5/5; 1 ex., 22. 7. 2010, 5/6; 1 ex., 26. 8. 2010, 5/6; 2 ex., 22. 4. 2010, 5/7; 3 ex., 19. 5. 2010, 5/7; 8 ex., 28. 6. 2010, 5/7; 1 ex., 22. 4. 2010, 5/8; 1 ex., 22. 4. 2010, 5/9; 4 ex., 19. 5. 2010, 5/9; 2 ex., 26. 8. 2010, 5/9; 1 ex., 26. 8. 2010, 6/1; 2 ex., 22. 4. 2010, 6/2; 2 ex., 26. 8. 2010, 6/2; 1 ex., 22. 9. 2010, 6/2; 3 ex., 22. 4. 2010, 6/3; 4 ex., 19. 5. 2010, 6/3; 9 ex., 28. 6. 2010, 6/3; 1 ex., 22. 7. 2010, 6/3; 1 ex., 22. 4. 2010, 6/4; 1 ex., 22. 4. 2010, 6/5; 11 ex., 28. 6. 2010, 6/5; 1 ex., 22. 7. 2010, 6/5; 1 ex., 22. 4. 2010, 6/6; 2 ex., 22. 7. 2010, 6/6; 4 ex., 22. 4. 2010, 6/7; 5 ex., 19. 5. 2010, 6/7; 26 ex., 28. 6. 2010, 6/7; 5 ex., 22. 7. 2010, 6/7; 1 ex., 26. 8. 2010, 6/7; 2 ex., 22. 4. 2010, 6/8; 9 ex., 19. 5. 2010, 6/8; 1 ex., 28. 6. 2010, 6/8; 1 ex., 26. 8. 2010, 6/8; 3 ex., 19. 5. 2010, 6/9; 4 ex., 28. 6. 2010, 6/9; 2 ex., 22. 4. 2010, 7/1; 2 ex., 19. 5. 2010, 7/1; 2 ex., 22. 4. 2010, 7/2; 1 ex., 19. 5. 2010, 7/2; 2 ex., 22. 4. 2010, 7/3; 1 ex., 22. 4. 2010, 7/4; 5 ex., 22. 4. 2010, 7/5; 14 ex., 19. 5. 2010, 7/5; 9 ex., 22. 4. 2010, 7/6; 13 ex., 19. 5. 2010, 7/6; 1 ex., 28. 6. 2010, 7/6; 1 ex., 19. 5. 2010, 7/7; 19 ex., 22. 7. 2010, 7/7; 3 ex., 26. 8. 2010, 7/7; 2 ex., 22. 4. 2010, 7/9; 8 ex., 19. 5. 2010, 7/9; 46 ex., 28. 4. 2011, 1/1; 69 ex., 20. 5. 2011, 1/1; 16 ex., 28. 6. 2011, 1/1; 14 ex., 28. 7. 2011, 1/1; 11 ex., 22. 8. 2011, 1/1; 15 ex., 28. 4. 2011, 1/2; 50 ex., 20. 5. 2011, 1/2; 21 ex., 28. 6. 2011, 1/2; 10 ex., 28. 7. 2011, 1/2; 40 ex., 22. 8. 2011, 1/2; 16 ex., 28. 4. 2011, 1/3; 14 ex., 20. 5. 2011, 1/3; 69 ex., 28. 6. 2011, 1/3; 31 ex., 28. 7. 2011, 1/3; 57 ex., 22. 8. 2011, 1/3; 4 ex., 30. 9. 2011, 1/3; 71 ex., 28. 4. 2011, 1/4; 64 ex., 20. 5. 2011, 1/4; 48 ex., 28. 6. 2011, 1/4; 43 ex., 22. 8. 2011, 1/4; 4 ex., 30. 9. 2011,

1/4; 10 ex., 28. 4. 2011, 1/5; 28 ex., 20. 5. 2011, 1/5; 23 ex., 28. 6. 2011, 1/5; 4 ex., 28. 7. 2011, 1/5; 24 ex., 22. 8. 2011, 1/5; 59 ex., 28. 4. 2011, 1/6; 98 ex., 20. 5. 2011, 1/6; 60 ex., 28. 7. 2011, 1/6; 91 ex., 22. 8. 2011, 1/6; 9 ex., 30. 9. 2011, 1/6; 44 ex., 28. 4. 2011, 1/7; 100 ex., 20. 5. 2011, 1/7; 17 ex., 28. 6. 2011, 1/7; 47 ex., 28. 7. 2011, 1/7; 57 ex., 22. 8. 2011, 1/7; 4 ex., 30. 9. 2011, 1/7; 15 ex., 28. 4. 2011, 1/8; 32 ex., 20. 5. 2011, 1/8; 7 ex., 28. 6. 2011, 1/8; 42 ex., 28. 7. 2011, 1/8; 36 ex., 22. 8. 2011, 1/8; 9 ex., 30. 9. 2011, 1/8; 5 ex., 28. 4. 2011, 1/9; 96 ex., 20. 5. 2011, 1/9; 14 ex., 28. 6. 2011, 1/9; 6 ex., 28. 7. 2011, 1/9; 81 ex., 22. 8. 2011, 1/9; 15 ex., 30. 9. 2011, 1/9; 1 ex., 28. 4. 2011, 2/1; 5 ex., 20. 5. 2011, 2/1; 1 ex., 28. 7. 2011, 2/1; 1 ex., 22. 8. 2011, 2/1; 3 ex., 28. 4. 2011, 2/2; 2 ex., 20. 5. 2011, 2/2; 5 ex., 28. 6. 2011, 2/2; 5 ex., 28. 7. 2011, 2/2; 8 ex., 28. 4. 2011, 2/3; 3 ex., 20. 5. 2011, 2/3; 17 ex., 28. 6. 2011, 2/3; 2 ex., 30. 9. 2011, 2/3; 6 ex., 28. 4. 2011, 2/4; 2 ex., 20. 5. 2011, 2/4; 8 ex., 28. 6. 2011, 2/4; 1 ex., 28. 7. 2011, 2/4; 1 ex., 22. 8. 2011, 2/4; 6 ex., 30. 9. 2011, 2/4; 5 ex., 20. 5. 2011, 2/5; 10 ex., 28. 6. 2011, 2/5; 3 ex., 28. 7. 2011, 2/5; 2 ex., 22. 8. 2011, 2/5; 1 ex., 30. 9. 2011, 2/5; 3 ex., 28. 4. 2011, 2/6; 2 ex., 20. 5. 2011, 2/6; 11 ex., 28. 6. 2011, 2/6; 4 ex., 28. 4. 2011, 2/7; 6 ex., 20. 5. 2011, 2/7; 14 ex., 28. 6. 2011, 2/7; 3 ex., 28. 7. 2011, 2/7; 4 ex., 22. 8. 2011, 2/7; 1 ex., 30. 9. 2011, 2/7; 8 ex., 28. 4. 2011, 2/8; 2 ex., 20. 5. 2011, 2/8; 7 ex., 28. 6. 2011, 2/8; 1 ex., 28. 7. 2011, 2/8; 2 ex., 22. 8. 2011, 2/8; 2 ex., 30. 9. 2011, 2/8; 4 ex., 20. 5. 2011, 2/9; 18 ex., 28. 6. 2011, 2/9; 1 ex., 28. 7. 2011, 2/9; 3 ex., 22. 8. 2011, 2/9; 6 ex., 28. 4. 2011, 3/1; 13 ex., 20. 5. 2011, 3/1; 10 ex., 28. 6. 2011, 3/1; 1 ex., 28. 7. 2011, 3/1; 7 ex., 22. 8. 2011, 3/1; 1 ex., 30. 9. 2011, 3/1; 4 ex., 28. 4. 2011, 3/2; 21 ex., 20. 5. 2011, 3/2; 30 ex., 28. 6. 2011, 3/2; 1 ex., 28. 7. 2011, 3/2; 3 ex., 22. 8. 2011, 3/2; 12 ex., 28. 4. 2011, 3/3; 42 ex., 20. 5. 2011, 3/3; 17 ex., 28. 6. 2011, 3/3; 2 ex., 28. 7. 2011, 3/3; 17 ex., 22. 8. 2011, 3/3; 1 ex., 30. 9. 2011, 3/3; 17 ex., 28. 4. 2011, 3/4; 24 ex., 20. 5. 2011, 3/4; 2 ex., 28. 6. 2011, 3/4; 4 ex., 28. 7. 2011, 3/4; 31 ex., 22. 8. 2011, 3/4; 3 ex., 28. 4. 2011, 3/5; 10 ex., 20. 5. 2011, 3/5; 19 ex., 28. 6. 2011, 3/5; 11 ex., 28. 4. 2011, 3/6; 20 ex., 20. 5. 2011, 3/6; 4 ex., 28. 7. 2011, 3/6; 17 ex., 22. 8. 2011, 3/6; 1 ex., 30. 9. 2011, 3/6; 8 ex., 28. 4. 2011, 3/7; 28 ex., 20. 5. 2011, 3/7; 20 ex., 28. 6. 2011, 3/7; 5 ex., 28. 7. 2011, 3/7; 21 ex., 22. 8. 2011, 3/7; 4 ex., 30. 9. 2011, 3/7; 16 ex., 28. 4. 2011, 3/8; 35 ex., 20. 5. 2011, 3/8; 24 ex., 28. 6. 2011, 3/8; 9 ex., 22. 8. 2011, 3/8; 18 ex., 28. 4. 2011, 3/9; 19 ex., 20. 5. 2011, 3/9; 12 ex., 28. 6. 2011, 3/9; 1 ex., 30. 9. 2011, 3/9; 85 ex., 28. 7. 2011, 4/1; 1 ex., 28. 4. 2011, 4/2; 1 ex., 28. 6. 2011, 4/2; 1 ex., 28. 7. 2011, 4/2; 1 ex., 22. 8. 2011, 4/2; 1 ex., 28. 4. 2011, 4/3; 1 ex., 20. 5. 2011, 4/3; 1 ex., 30. 9. 2011, 4/3; 1 ex., 28. 4. 2011, 4/4; 1 ex., 20. 5. 2011, 4/4; 2 ex., 28. 6. 2011, 4/4; 1 ex., 28. 7. 2011, 4/4; 6 ex., 20. 5. 2011, 4/5; 2 ex., 28. 6. 2011, 4/5; 2 ex., 22. 8. 2011, 4/5; 5 ex., 28. 4. 2011, 4/6; 9 ex., 20. 5. 2011, 4/6; 2 ex., 28. 6. 2011, 4/6; 1 ex., 28. 7. 2011, 4/6; 3 ex., 22. 8. 2011, 4/6; 3 ex., 28. 4. 2011, 4/7; 3 ex., 20. 5. 2011, 4/7; 2 ex., 28. 6. 2011, 4/7; 1 ex., 28. 7. 2011, 4/7; 11 ex., 22. 8. 2011, 4/7; 1 ex., 30. 9. 2011, 4/7; 2 ex., 20. 5. 2011, 4/8; 3 ex., 28. 6. 2011, 4/8; 3 ex., 20. 5. 2011, 5/1; 3 ex., 28. 6. 2011, 5/1; 2 ex., 28. 7. 2011, 5/1; 2 ex., 20. 5. 2011, 5/2;

2 ex., 28. 6. 2011, 5/2; 1 ex., 28. 4. 2011, 5/3; 1 ex., 28. 6. 2011, 5/3; 1 ex., 28. 7. 2011, 5/3; 2 ex., 28. 6. 2011, 5/4; 1 ex., 28. 4. 2011, 5/5; 2 ex., 30. 9. 2011, 5/6; 3 ex., 28. 4. 2011, 5/7; 5 ex., 20. 5. 2011, 5/7; 1 ex., 28. 6. 2011, 5/7; 1 ex., 22. 8. 2011, 5/7; 4 ex., 28. 4. 2011, 5/8; 1 ex., 20. 5. 2011, 5/8; 3 ex., 28. 6. 2011, 5/8; 2 ex., 22. 8. 2011, 5/8; 2 ex., 28. 4. 2011, 5/9; 5 ex., 20. 5. 2011, 5/9; 2 ex., 28. 6. 2011, 5/9; 1 ex., 22. 8. 2011, 5/9; 1 ex., 30. 9. 2011, 5/9; 1 ex., 28. 4. 2011, 6/2; 6 ex., 28. 4. 2011, 6/3; 1 ex., 20. 5. 2011, 6/3; 1 ex., 28. 6. 2011, 6/3; 1 ex., 28. 4. 2011, 6/4; 1 ex., 22. 8. 2011, 6/4; 5 ex., 28. 4. 2011, 6/5; 2 ex., 28. 6. 2011, 6/5; 2 ex., 28. 7. 2011, 6/5; 4 ex., 28. 4. 2011, 6/6; 1 ex., 20. 5. 2011, 6/6; 1 ex., 28. 6. 2011, 6/6; 1 ex., 28. 7. 2011, 6/6; 1 ex., 22. 8. 2011, 6/6; 2 ex., 28. 4. 2011, 6/7; 2 ex., 20. 5. 2011, 6/7; 2 ex., 22. 8. 2011, 6/7; 1 ex., 30. 9. 2011, 6/7; 3 ex., 20. 5. 2011, 6/8; 1 ex., 20. 5. 2011, 7/1; 2 ex., 20. 5. 2011, 7/2; 1 ex., 28. 4. 2011, 7/4; 1 ex., 20. 5. 2011, 7/4; 2 ex., 28. 6. 2011, 7/4; 4 ex., 28. 4. 2011, 7/5; 6 ex., 20. 5. 2011, 7/5; 1 ex., 28. 6. 2011, 7/5; 4 ex., 28. 7. 2011, 7/5; 1 ex., 28. 4. 2011, 7/6; 4 ex., 20. 5. 2011, 7/6; 3 ex., 28. 7. 2011, 7/6; 1 ex., 28. 4. 2011, 7/7; 4 ex., 22. 8. 2011, 7/7; 2 ex., 22. 8. 2011, 7/9.

Carabus violaceus Linnaeus, 1758

Common forest species known from lowlands to high mountain elevations. Data: 1 ex., 26. 8. 2010, 1/8; 1 ex., 22. 7. 2010, 3/2; 1 ex., 22. 4. 2010, 4/5; 1 ex., 22. 7. 2010, 5/5; 1 ex., 26. 8. 2010, 6/1; 1 ex., 22. 7. 2010, 6/8; 1 ex., 26. 8. 2010, 6/8; 1 ex., 22. 7. 2010, 6/9; 1 ex., 22. 8. 2011, 1/9; 1 ex., 28. 6. 2011, 2/5; 1 ex., 22. 8. 2011, 4/8; 1 ex., 22. 8. 2011, 5/4; 1 ex., 28. 6. 2011, 5/6; 1 ex., 28. 7. 2011, 5/8; 1 ex., 22. 8. 2011, 5/9; 1 ex., 28. 7. 2011, 6/5; 1 ex., 28. 7. 2011, 6/6; 1 ex., 22. 8. 2011, 6/6.

Cicindela campestris Linnaeus, 1758

Common species of open habitats known from lowlands to mountains. Data: 1 ex., 22. 4. 2010, 1/7; 1 ex., 19. 5. 2010, 1/8; 2 ex., 22. 4. 2010, 2/5; 1 ex., 19. 5. 2010, 4/2; 2 ex., 28. 6. 2010, 4/2; 1 ex., 28. 6. 2011, 1/1; 2 ex., 20. 5. 2011, 1/4; 2 ex., 28. 4. 2011, 1/7; 2 ex., 20. 5. 2011, 1/7; 1 ex., 20. 5. 2011, 2/9; 2 ex., 28. 6. 2011, 3/7.

Clivina fossor (Linnaeus, 1758)

Very common species on moist, unshaded or slightly shaded habitats (meadows, water shores), from lowlands to mountains. Data: 1 ex., 19. 5. 2010, 7/1.

Cylindera germanica (Linnaeus, 1758)

Eurasian species, occurring locally across the entire territory Czech Republic, mainly in lowlands on pastures, field edges, avoiding sandy ground. Data: 5 ex., 26. 8. 2010, 1/2; 1 ex., 26. 8. 2010, 1/3; 5 ex., 22. 7. 2010, 1/9; 1 ex., 22. 7. 2010, 4/1; 5 ex., 26. 8. 2010, 4/1; 1 ex., 26. 8. 2010, 4/3; 1 ex., 22. 7. 2010, 4/4; 1 ex., 26. 8. 2010, 4/7; 1 ex., 26. 8. 2010, 4/8; 8 ex., 26. 8. 2010, 4/9; 3 ex., 28. 7. 2011, 1/1; 1 ex., 22. 8. 2011, 1/1; 1 ex., 28. 7. 2011, 1/2; 1 ex., 22. 8. 2011, 1/2; 9 ex., 28. 7. 2011, 1/3; 3 ex., 28. 7. 2011, 1/5; 4 ex., 28. 7. 2011, 1/6; 2 ex., 22. 8. 2011, 1/6; 2 ex., 28. 7. 2011, 1/7;

3 ex., 22. 8. 2011, 1/7; 6 ex., 28. 7. 2011, 1/8; 1 ex., 22. 8. 2011, 1/9; 1 ex., 30. 9. 2011, 1/9; 1 ex., 28. 7. 2011, 2/9; 1 ex., 22. 8. 2011, 2/9; 5 ex., 28. 7. 2011, 3/1; 1 ex., 22. 8. 2011, 3/1; 1 ex., 28. 7. 2011, 3/2; 1 ex., 28. 7. 2011, 3/8; 1 ex., 28. 7. 2011, 3/9; 2 ex., 28. 7. 2011, 4/1; 5 ex., 22. 8. 2011, 4/1; 1 ex., 22. 8. 2011, 4/2; 1 ex., 28. 7. 2011, 4/3; 1 ex., 30. 9. 2011, 4/3; 1 ex., 28. 7. 2011, 4/4; 3 ex., 22. 8. 2011, 4/9; 2 ex., 28. 7. 2011, 7/1; 1 ex., 28. 7. 2011, 7/5; 2 ex., 28. 7. 2011, 7/9; 1 ex., 22. 8. 2011, 7/9. **VU**

Cymindis humeralis (Geoffroy in Fourcroy, 1785)

Common to sporadic species in dry, unshaded habitats (steppe, wooded steppe, pastures), known from lowlands to mountains, often in hills. Data: 1 ex., 28. 7. 2011, 4/1.

Diachromus germanus (Linnaeus, 1758)

Rare species in Bohemia, in Moravia sporadic, locally common, saline habitats, overgrown bottoms of drained ponds, from lowlands to foothills. Data: 2 ex., 28. 6. 2011, 7/1; 8 ex., 28. 7. 2011, 7/5.

Drypta dentata (Rossi, 1790)

Very rare species in Bohemia and very local, in Moravia rare to sporadic, local common. Indifferent to both shade and moisture (reed swamps, forest edges, vineyards, fields, ruderals, among trash and rubbish), known from lowlands to hills. Data: 1 ex., 28. 7. 2011, 2/5; 1 ex., 28. 7. 2011, 6/2; 1 ex., 28. 4. 2011, 7/1;

Elaphrus cupreus Duftschmidt, 1812

Common species in moist to wet, not shaded, or partly shaded habitats known from lowlands to mountains. Data: 1 ex., 22. 4. 2010, 2/7; 2 ex., 22. 4. 2010, 5/8; 2 ex., 22. 4. 2010, 6/3; 4 ex., 22. 4. 2010, 6/8; 1 ex., 22. 4. 2010, 7/1.

Epaphius secalis (Paykull, 1790)

Common species in moist to semim moist habitats, indifferent to shade (forests, meadows), known from lowlands to mountains, mostly in foothills. Data: 1 ex., 30. 9. 2011, 2/6.

Harpalus affinis (Schrank, 1781)

Very common species, in dry to moderately moist, unshaded habitats (fields, meadows, ruderals), known from lowlands to mountains. Data: 6 ex., 22. 9. 2010, 1/1; 1 ex., 22. 9. 2010, 1/5; 2 ex., 22. 4. 2010, 1/8; 1 ex., 26. 8. 2010, 1/8; 1 ex., 22. 4. 2010, 2/4; 1 ex., 22. 4. 2010, 2/6; 2 ex., 22. 4. 2010, 2/8; 1 ex., 22. 7. 2010, 3/1; 1 ex., 22. 4. 2010, 3/6; 1 ex., 28. 6. 2010, 3/6; 1 ex., 28. 6. 2010, 4/1; 1 ex., 22. 7. 2010, 4/3; 1 ex., 22. 4. 2010, 4/4; 2 ex., 19. 5. 2010, 4/8; 1 ex., 22. 4. 2010, 5/8; 2 ex., 22. 7. 2010, 6/1; 12 ex., 28. 6. 2010, 6/2; 11 ex., 22. 7. 2010, 6/2; 3 ex., 22. 7. 2010, 6/4; 12 ex., 26. 8. 2010, 6/4; 1 ex., 22. 4. 2010, 6/7; 1 ex., 22. 4. 2010, 6/8; 6 ex., 22. 7. 2010, 6/9; 7 ex., 19. 5. 2010, 7/1; 4 ex., 19. 5. 2010, 7/2; 1 ex., 22. 7. 2010, 7/6; 2 ex., 28. 6. 2011, 1/1; 3 ex., 28. 6. 2011, 1/2; 4 ex., 28. 4. 2011, 1/3; 2 ex., 20. 5. 2011, 1/3; 1 ex., 28. 7. 2011, 1/6; 1 ex., 28. 4. 2011, 1/7; 1 ex., 28. 6. 2011, 1/7; 2 ex., 20. 5.

2011, 2/1; 3 ex., 20. 5. 2011, 2/2; 3 ex., 28. 6. 2011, 2/2; 1 ex., 20. 5. 2011, 2/3; 1 ex., 28. 7. 2011, 2/4; 1 ex., 30. 9. 2011, 2/6; 1 ex., 28. 7. 2011, 2/7; 1 ex., 28. 4. 2011, 2/8; 5 ex., 28. 6. 2011, 2/8; 1 ex., 28. 7. 2011, 2/8; 1 ex., 20. 5. 2011, 3/3; 2 ex., 28. 6. 2011, 3/4; 4 ex., 28. 6. 2011, 3/7; 1 ex., 30. 9. 2011, 3/8; 1 ex., 28. 7. 2011, 3/9; 1 ex., 28. 6. 2011, 4/1; 1 ex., 28. 7. 2011, 4/5; 3 ex., 28. 6. 2011, 4/9; 1 ex., 28. 4. 2011, 5/5; 1 ex., 20. 5. 2011, 6/1; 2 ex., 28. 6. 2011, 6/1; 1 ex., 28. 4. 2011, 6/2; 4 ex., 28. 6. 2011, 6/2; 1 ex., 22. 8. 2011, 6/2; 1 ex., 28. 4. 2011, 6/3; 1 ex., 20. 5. 2011, 6/3; 3 ex., 28. 7. 2011, 6/3; 1 ex., 22. 8. 2011, 6/3; 2 ex., 28. 4. 2011, 6/5; 1 ex., 20. 5. 2011, 6/6; 1 ex., 20. 5. 2011, 6/7; 1 ex., 20. 5. 2011, 6/8; 1 ex., 28. 6. 2011, 6/8; 1 ex., 20. 5. 2011, 6/9; 1 ex., 28. 6. 2011, 6/9; 2 ex., 28. 7. 2011, 6/9; 1 ex., 22. 8. 2011, 6/9; 1 ex., 20. 5. 2011, 7/1; 8 ex., 28. 6. 2011, 7/1; 1 ex., 28. 7. 2011, 7/1; 1 ex., 22. 8. 2011, 7/1; 1 ex., 20. 5. 2011, 7/2; 1 ex., 28. 7. 2011, 7/2; 2 ex., 22. 8. 2011, 7/3; 1 ex., 20. 5. 2011, 7/5; 1 ex., 28. 4. 2011, 7/6; 3 ex., 28. 4. 2011, 7/7; 1 ex., 28. 4. 2011, 7/8; 1 ex., 28. 7. 2011, 7/8; 2 ex., 22. 8. 2011, 7/8; 6 ex., 28. 4. 2011, 7/9; 5 ex., 20. 5. 2011, 7/9; 6 ex., 22. 8. 2011, 7/9; 1 ex., 30. 9. 2011, 7/9.

Harpalus atratus Latreille, 1804

Common species in moderately dry to moderately moist habitats, indifferent to shade (shrubby habitats, forests and forest edges, gardens, ruins), known from lowlands to mountains, mostly in hills. Data: 3 ex., 26. 8. 2010, 1/8; 1 ex., 26. 8. 2010, 2/2; 2 ex., 26. 8. 2010, 3/4; 1 ex., 22. 9. 2010, 3/6; 1 ex., 22. 9. 2010, 3/7; 1 ex., 22. 9. 2010, 3/8; 3 ex., 26. 8. 2010, 4/1; 1 ex., 22. 7. 2010, 4/4; 6 ex., 26. 8. 2010, 4/9; 1 ex., 26. 8. 2010, 5/1; 4 ex., 22. 9. 2010, 5/8; 14 ex., 26. 8. 2010, 6/2; 3 ex., 22. 9. 2010, 6/2; 3 ex., 22. 7. 2010, 6/9; 20 ex., 26. 8. 2010, 7/8; 1 ex., 28. 6. 2011, 2/4; 1 ex., 28. 6. 2011, 6/7.

Harpalus distinguendus (Duftschmidt, 1812)

Very common species, in dry to moderately moist, unshaded habitats (fields, steppe, ruderals), from lowlands to hills. Data: 1 ex., 22. 7. 2010, 1/2; 1 ex., 19. 5. 2010, 1/8; 2 ex., 22. 4. 2010, 2/7; 1 ex., 19. 5. 2010, 2/9; 1 ex., 22. 9. 2010, 3/1; 1 ex., 22. 7. 2010, 3/3; 1 ex., 22. 4. 2010, 5/2; 2 ex., 28. 6. 2010, 5/3; 2 ex., 22. 4. 2010, 6/1; 10 ex., 22. 7. 2010, 6/2; 4 ex., 19. 5. 2010, 6/3; 1 ex., 19. 5. 2010, 6/9; 2 ex., 19. 5. 2010, 7/2; 1 ex., 19. 5. 2010, 7/6; 3 ex., 19. 5. 2010, 7/7; 6 ex., 19. 5. 2010, 7/9; 1 ex., 22. 7. 2010, 7/9; 1 ex., 20. 5. 2011, 2/1; 1 ex., 20. 5. 2011, 2/2; 1 ex., 22. 8. 2011, 2/5; 2 ex., 28. 6. 2011, 3/4; 1 ex., 20. 5. 2011, 3/6; 1 ex., 28. 7. 2011, 3/6; 1 ex., 28. 6. 2011, 3/7; 1 ex., 28. 4. 2011, 4/9; 1 ex., 20. 5. 2011, 4/9; 1 ex., 28. 6. 2011, 6/2; 1 ex., 28. 4. 2011, 7/1; 1 ex., 20. 5. 2011, 7/1; 1 ex., 28. 7. 2011, 7/1; 1 ex., 28. 7. 2011, 7/5; 2 ex., 28. 4. 2011, 7/7; 2 ex., 28. 4. 2011, 7/8; 2 ex., 28. 4. 2011, 7/9.

Harpalus honestus (Duftschmidt, 1812)

Common species in dry to moderately dry, unshaded habitats (quarries, stony fallows), known from lowlands to mountains, often in hills. Data: 1 ex., 28. 6. 2011, 2/3; 2 ex., 28. 6. 2011, 6/2; 1 ex., 22. 8.

2011, 6/2; 1 ex., 28. 7. 2011, 6/7; 1 ex., 28. 6. 2011, 6/8; 1 ex., 22. 8. 2011, 7/1; 1 ex., 28. 7. 2011, 7/3; 1 ex., 28. 7. 2011, 7/6.

Harpalus latus (Linnaeus, 1758)

Very common species in moderately dry to moist habitats, indifferent to shade (forests, meadows), known from lowlands to mountains, mostly in foothills. Data: 1 ex., 22. 8. 2011, 1/2; 1 ex., 20. 5. 2011, 1/3; 1 ex., 28. 6. 2011, 1/7; 1 ex., 20. 5. 2011, 1/8; 1 ex., 28. 6. 2011, 2/2; 1 ex., 20. 5. 2011, 2/3; 1 ex., 22. 8. 2011, 2/3; 1 ex., 20. 5. 2011, 3/5; 1 ex., 22. 8. 2011, 3/7; 1 ex., 22. 8. 2011, 4/5; 1 ex., 28. 6. 2011, 5/9; 1 ex., 20. 5. 2011, 6/1; 1 ex., 20. 5. 2011, 6/2; 1 ex., 28. 7. 2011, 6/2; 2 ex., 22. 8. 2011, 6/2; 1 ex., 28. 7. 2011, 6/3; 1 ex., 22. 8. 2011, 6/4; 1 ex., 30. 9. 2011, 6/5; 1 ex., 28. 7. 2011, 6/6; 1 ex., 22. 8. 2011, 6/7; 1 ex., 28. 6. 2011, 6/8; 1 ex., 30. 9. 2011, 6/8.

Harpalus rubripes (Duftschmid, 1812)

Very common species of dry to indifferent unshaded habitats (fields, quarries, brick-yards, ruderals), known from lowlands to mountains, mainly in hills. Data: 1 ex., 19. 5. 2010, 1/2; 4 ex., 22. 7. 2010, 1/2; 2 ex., 22. 9. 2010, 1/6; 1 ex., 22. 9. 2010, 1/8; 2 ex., 19. 5. 2010, 2/4; 2 ex., 22. 4. 2010, 2/5; 1 ex., 22. 9. 2010, 2/7; 6 ex., 28. 6. 2010, 2/8; 18 ex., 19. 5. 2010, 2/9; 6 ex., 19. 5. 2010, 3/1; 1 ex., 28. 6. 2010, 4/1; 1 ex., 19. 5. 2010, 4/8; 1 ex., 22. 9. 2010, 4/9; 1 ex., 22. 4. 2010, 5/2; 2 ex., 19. 5. 2010, 5/4; 1 ex., 19. 5. 2010, 5/7; 1 ex., 19. 5. 2010, 5/8; 2 ex., 19. 5. 2010, 5/9; 1 ex., 22. 7. 2010, 5/9; 2 ex., 28. 6. 2010, 6/2; 6 ex., 22. 9. 2010, 6/2; 1 ex., 22. 7. 2010, 6/7; 3 ex., 22. 7. 2010, 6/8; 1 ex., 22. 9. 2010, 6/8; 2 ex., 19. 5. 2010, 6/9; 1 ex., 19. 5. 2010, 7/2; 1 ex., 22. 7. 2010, 7/5; 1 ex., 22. 7. 2010, 7/9; 1 ex., 22. 8. 2011, 4/1.

Harpalus tardus (Panzer, 1797)

Very common species in very dry, unshaded habitats (steppe, fields, ruderals) known from lowlands to mountains. Data: 1 ex., 19. 5. 2010, 7/6; 1 ex., 28. 4. 2011, 6/2.

Chlaenius nigricornis Fabricius, 1787

Common species (water edges with vegetation, swamps) known from lowlands to hills. Data: 1 ex., 28. 4. 2011, 6/5.

Leistus ferrugineus (Linnaeus, 1758)

Common species in moderately dry to humid habitats, indifferent to shade (open country, woodland), from lowlands to mountains. Data: 1 ex., 30. 9. 2011, 1/2; 1 ex., 28. 7. 2011, 1/6; 1 ex., 28. 4. 2011, 2/2; 1 ex., 22. 8. 2011, 2/2; 1 ex., 30. 9. 2011, 2/3; 1 ex., 28. 6. 2011, 2/4; 1 ex., 22. 8. 2011, 2/8; 1 ex., 28. 6. 2011, 5/3; 2 ex., 30. 9. 2011, 7/6; 2 ex., 30. 9. 2011, 7/9.

Licinus depressus (Paykull, 1790)

Sporadic species in drier, unshaded habitats (steppe, elevated, not flooded water edges with sparse vegetation), known from lowlands to foothills. From Moravský kras is this species known

mainly from scree forests which are typical for conditions of deep limestone valleys with cold microhabitat conditions. Data: 1 ex., 22. 8. 2011, 7/5.

Limodromus assimilis (Paykull, 1790)

Very common species in moisture indifferent to very moist, partly to entirely shaded habitats (forests, parks, shaded water edges), from lowlands to mountains, often in hills. Data: 3 ex., 28. 6. 2011, 7/1; 1 ex., 28. 4. 2011, 7/2.

Loricera pilicornis (Fabricius, 1775)

Common species inhabiting fields, meadows, water shores covered with vegetation, inundated forests, known from lowlands to mountains. Data: 1 ex., 22. 4. 2010, 4/8; 1 ex., 19. 5. 2010, 6/1; 4 ex., 20. 5. 2011, 2/1; 1 ex., 22. 8. 2011, 2/1; 2 ex., 20. 5. 2011, 2/2; 1 ex., 28. 6. 2011, 2/2; 1 ex., 20. 5. 2011, 2/3; 1 ex., 28. 6. 2011, 2/3; 1 ex., 28. 6. 2011, 2/4; 1 ex., 22. 8. 2011, 2/4; 1 ex., 28. 7. 2011, 2/5; 1 ex., 28. 6. 2011, 2/6; 1 ex., 28. 6. 2011, 2/7; 2 ex., 22. 8. 2011, 2/9; 1 ex., 28. 4. 2011, 3/1; 1 ex., 20. 5. 2011, 3/5; 1 ex., 28. 6. 2011, 3/5; 1 ex., 28. 4. 2011, 5/6; 1 ex., 22. 8. 2011, 6/2; 1 ex., 28. 4. 2011, 6/5; 1 ex., 22. 8. 2011, 6/7; 1 ex., 28. 6. 2011, 6/8; 1 ex., 28. 7. 2011, 6/9; 4 ex., 22. 8. 2011, 7/1; 1 ex., 28. 4. 2011, 7/2; 1 ex., 28. 4. 2011, 7/5; 1 ex., 20. 5. 2011, 7/5; 1 ex., 28. 7. 2011, 7/5; 2 ex., 22. 8. 2011, 7/8; 1 ex., 22. 8. 2011, 7/9; 1 ex., 30. 9. 2011, 7/9.

Microlestes maurus (Sturm, 1827)

Common species of rather dry habitats indifferent to shade known from lowlands to mountains, often in hills. Data: 1 ex., 28. 6. 2011, 6/2.

Molops elatus (Fabricius, 1801)

In Bohemia sporadic and local, only very locally common, in Moravia sporadic and local, prefers drier habitats, indifferent to shade, known from lowlands to mountains. Data: 2 ex., 26. 8. 2010, 2/6; 6 ex., 28. 6. 2010, 2/8; 1 ex., 22. 4. 2010, 3/8; 1 ex., 22. 4. 2010, 4/7; 5 ex., 19. 5. 2010, 5/2; 3 ex., 22. 4. 2010, 5/3; 3 ex., 22. 4. 2010, 5/4; 1 ex., 22. 4. 2010, 5/6; 1 ex., 22. 4. 2010, 5/7; 1 ex., 22. 4. 2010, 5/8; 2 ex., 19. 5. 2010, 5/9; 1 ex., 22. 4. 2010, 7/1; 1 ex., 22. 4. 2010, 7/4; 1 ex., 22. 4. 2010, 7/5; 5 ex., 22. 4. 2010, 7/6; 1 ex., 19. 5. 2010, 7/6; 3 ex., 22. 4. 2010, 7/8; 2 ex., 22. 4. 2010, 7/9; 2 ex., 19. 5. 2010, 7/9; 2 ex., 28. 4. 2011, 1/3; 1 ex., 28. 6. 2011, 2/7; 1 ex., 28. 6. 2011, 5/1; 1 ex., 28. 4. 2011, 5/2; 17 ex., 28. 4. 2011, 5/3; 10 ex., 20. 5. 2011, 5/3; 4 ex., 28. 6. 2011, 5/3; 9 ex., 28. 4. 2011, 5/4; 5 ex., 20. 5. 2011, 5/4; 4 ex., 28. 6. 2011, 5/4; 10 ex., 28. 4. 2011, 5/5; 2 ex., 28. 4. 2011, 5/6; 6 ex., 20. 5. 2011, 5/6; 7 ex., 28. 4. 2011, 5/7; 4 ex., 20. 5. 2011, 5/7; 1 ex., 28. 6. 2011, 5/7; 2 ex., 28. 4. 2011, 5/8; 4 ex., 20. 5. 2011, 5/8; 3 ex., 28. 6. 2011, 5/8; 2 ex., 28. 6. 2011, 5/9; 2 ex., 28. 4. 2011, 6/5; 1 ex., 28. 4. 2011, 6/6; 1 ex., 20. 5. 2011, 6/8; 2 ex., 20. 5. 2011, 7/2; 2 ex., 20. 5. 2011, 7/3; 1 ex., 28. 6. 2011, 7/4; 2 ex., 20. 5. 2011, 7/5; 19 ex., 28. 4. 2011, 7/6; 10 ex., 20. 5. 2011, 7/6; 1 ex., 28. 6. 2011, 7/6; 1 ex., 30. 9. 2011, 7/7.

Molops piceus (Panzer, 1793)

Very common species in forests known from mountains to lowlands. Data: 2 ex., 19. 5. 2010, 2/5; 8 ex., 28. 6. 2010, 2/8; 2 ex., 28. 6. 2010, 3/4; 2 ex., 28. 6. 2010, 4/9; 4 ex., 28. 6. 2010, 5/2; 6 ex., 22. 4. 2010, 5/3; 3 ex., 22. 4. 2010, 5/4; 2 ex., 19. 5. 2010, 5/5; 1 ex., 28. 6. 2010, 5/6; 2 ex., 22. 4. 2010, 5/7; 4 ex., 19. 5. 2010, 5/7; 2 ex., 19. 5. 2010, 5/8; 1 ex., 22. 4. 2010, 6/5; 3 ex., 19. 5. 2010, 7/1; 3 ex., 19. 5. 2010, 7/2; 1 ex., 22. 4. 2010, 7/2; 1 ex., 22. 4. 2010, 7/3; 2 ex., 22. 4. 2010, 7/5; 2 ex., 22. 4. 2010, 7/6; 3 ex., 22. 4. 2010, 7/7; 1 ex., 22. 4. 2010, 7/9; 1 ex., 28. 4. 2011, 3/4.

Nebria brevicollis (Fabricius, 1792)

Common species (woodlands, parks, shaded grassland) known from lowlands to mountains. Data: 1 ex., 28. 6. 2011, 6/2; 1 ex., 20. 5. 2011, 7/5.

Notiophilus aestuans Dejean, 1826

Sporadic to common species, living in open, ether dry habitats (steppe, fallows) known from lowlands to mountains. Data: 1 ex., 22. 4. 2010, 6/1; 1 ex., 20. 5. 2011, 7/9.

Notiophilus palustris (Duftschmid, 1812)

Very common species in moderately dry to moist, open to partly shaded habitats (woodland, meadows, fields) known from lowlands to mountains. Data: 1 ex., 28. 6. 2011, 1/9; 1 ex., 20. 5. 2011, 2/8; 1 ex., 28. 6. 2011, 2/8; 1 ex., 28. 6. 2011, 3/2; 2 ex., 28. 4. 2011, 6/2; 2 ex., 20. 5. 2011, 7/2.

Ophonus azureus (Fabricius, 1775)

Very common species in dry, unshaded habitats (fields, steppe, pastures) known from lowlands to hills. Data: 1 ex., 22. 7. 2010, 6/2; 1 ex., 20. 5. 2011, 2/3; 1 ex., 20. 5. 2011, 4/3; 3 ex., 28. 7. 2011, 5/4; 1 ex., 22. 8. 2011, 5/4; 1 ex., 28. 6. 2011, 6/2; 2 ex., 22. 8. 2011, 6/2.

Ophonus rufibarbis (Fabricius, 1792)

Common species in dry to moderately moist, unshaded to partly shaded habitats (fields, steppe, ruderals, vineyards, parks, bushy biotopes) known from lowlands to mountains. Data: 1 ex., 28. 6. 2011, 3/4; 1 ex., 28. 7. 2011, 3/5; 1 ex., 28. 7. 2011, 5/1; 1 ex., 22. 8. 2011, 6/6; 1 ex., 28. 6. 2011, 7/1.

Panagaeus bipustulatus (Fabricius, 1775)

Sporadic to rare species, preferably in drier, unshaded or partly shaded habitats (steppe, shrubby hill-sides, gardens), from lowlands, hills to foothills. Data: 1 ex., 28. 6. 2011, 2/3; 1 ex., 20. 5. 2011, 2/8; 1 ex., 22. 8. 2011, 2/8; 1 ex., 28. 6. 2011, 4/1; 1 ex., 28. 7. 2011, 4/8; 1 ex., 20. 5. 2011, 5/6.

Panagaeus cruxmajor (Linnaeus, 1758)

Sporadic species, rather in moist, unshaded or partly shaded habitats (meadows near waters, grassy water edges) known from lowlands to hills. Data: 1 ex., 22. 7. 2010, 5/9.

Paradromius linearis (Olivier, 1795)

Sporadic to common species in dry unshaded habitats known from lowlands to mountains. Data: 1 ex., 22. 4. 2010, 6/2.

Philochthus lunulatus (Geffroy in Fourcroy, 1785)

Common species on moderately moist to wet, unshaded loamy edges of waters known from lowlands to hills. Data: 1 ex., 28. 4. 2011, 7/9.

Poecilus cupreus (Linnaeus, 1758)

Very common species in unshaded habitats (fields, steppe, water edges) known from lowlands to mountains. Data: 8 ex., 22. 4. 2010, 1/1; 5 ex., 19. 5. 2010, 1/1; 1 ex., 22. 7. 2010, 1/1; 3 ex., 22. 4. 2010, 1/2; 4 ex., 19. 5. 2010, 1/2; 12 ex., 28. 6. 2010, 1/2; 4 ex., 22. 7. 2010, 1/2; 6 ex., 19. 5. 2010, 1/3; 1 ex., 22. 4. 2010, 1/4; 36 ex., 19. 5. 2010, 1/4; 16 ex., 28. 6. 2010, 1/4; 1 ex., 22. 9. 2010, 1/4; 2 ex., 22. 4. 2010, 1/5; 32 ex., 19. 5. 2010, 1/5; 24 ex., 28. 6. 2010, 1/5; 2 ex., 22. 7. 2010, 1/5; 16 ex., 22. 4. 2010, 1/6; 2 ex., 22. 7. 2010, 1/6; 1 ex., 22. 4. 2010, 1/7; 8 ex., 19. 5. 2010, 1/7; 1 ex., 28. 6. 2010, 1/7; 4 ex., 22. 7. 2010, 1/7; 6 ex., 22. 4. 2010, 1/8; 18 ex., 19. 5. 2010, 1/8; 2 ex., 28. 6. 2010, 1/8; 6 ex., 22. 7. 2010, 1/8; 7 ex., 22. 4. 2010, 1/9; 2 ex., 19. 5. 2010, 1/9; 8 ex., 22. 7. 2010, 1/9; 11 ex., 26. 8. 2010, 1/9; 6 ex., 22. 4. 2010, 2/1; 51 ex., 19. 5. 2010, 2/1; 1 ex., 28. 6. 2010, 2/2; 13 ex., 22. 4. 2010, 2/3; 1 ex., 26. 8. 2010, 2/3; 1 ex., 22. 9. 2010, 2/3; 18 ex., 22. 4. 2010, 2/4; 22 ex., 19. 5. 2010, 2/4; 12 ex., 22. 4. 2010, 2/5; 3 ex., 19. 5. 2010, 2/5; 1 ex., 28. 6. 2010, 2/5; 6 ex., 22. 4. 2010, 2/6; 12 ex., 19. 5. 2010, 2/6; 2 ex., 22. 7. 2010, 2/6; 4 ex., 22. 4. 2010, 2/7; 3 ex., 19. 5. 2010, 2/7; 5 ex., 22. 4. 2010, 2/8; 4 ex., 19. 5. 2010, 2/8; 16 ex., 28. 6. 2010, 2/8; 2 ex., 22. 7. 2010, 2/8; 8 ex., 22. 4. 2010, 2/9; 36 ex., 19. 5. 2010, 2/9; 26 ex., 28. 6. 2010, 2/9; 4 ex., 22. 4. 2010, 3/1; 27 ex., 19. 5. 2010, 3/1; 3 ex., 22. 7. 2010, 3/1; 1 ex., 26. 8. 2010, 3/1; 5 ex., 22. 4. 2010, 3/2; 2 ex., 19. 5. 2010, 3/2; 12 ex., 28. 6. 2010, 3/2; 6 ex., 22. 4. 2010, 3/3; 1 ex., 19. 5. 2010, 3/3; 2 ex., 22. 7. 2010, 3/3; 3 ex., 22. 4. 2010, 3/4; 2 ex., 19. 5. 2010, 3/4; 22 ex., 28. 6. 2010, 3/4; 18 ex., 22. 7. 2010, 3/4; 1 ex., 22. 4. 2010, 3/5; 6 ex., 19. 5. 2010, 3/5; 4 ex., 28. 6. 2010, 3/5; 3 ex., 22. 4. 2010, 3/6; 1 ex., 19. 5. 2010, 3/6; 4 ex., 28. 6. 2010, 3/6; 2 ex., 22. 7. 2010, 3/6; 4 ex., 22. 4. 2010, 3/7; 2 ex., 28. 6. 2010, 3/7; 2 ex., 22. 4. 2010, 3/8; 11 ex., 28. 6. 2010, 3/8; 6 ex., 22. 7. 2010, 3/8; 3 ex., 22. 4. 2010, 3/9; 11 ex., 19. 5. 2010, 3/9; 11 ex., 28. 6. 2010, 3/9; 5 ex., 22. 4. 2010, 4/1; 3 ex., 28. 6. 2010, 4/1; 1 ex., 26. 8. 2010, 4/2; 3 ex., 22. 4. 2010, 4/3; 4 ex., 19. 5. 2010, 4/3; 4 ex., 19. 5. 2010, 4/4; 2 ex., 22. 4. 2010, 4/5; 2 ex., 22. 4. 2010, 4/6; 2 ex., 19. 5. 2010, 4/6; 6 ex., 22. 4. 2010, 4/7; 3 ex., 19. 5. 2010, 4/7; 7 ex., 22. 4. 2010, 4/8; 7 ex., 19. 5. 2010, 4/8; 1 ex., 22. 7. 2010, 4/8; 2 ex., 22. 4. 2010, 4/9; 38 ex., 19. 5. 2010, 4/9; 2 ex., 28. 6. 2010, 4/9; 2 ex., 22. 7. 2010, 4/9; 3 ex., 22. 4. 2010, 5/1; 1 ex., 22. 7. 2010, 5/1; 16 ex., 22. 4. 2010, 5/2; 2 ex., 19. 5. 2010, 5/2; 4 ex., 22. 4. 2010, 5/3; 3 ex., 28. 6. 2010, 5/3; 1 ex., 22. 9. 2010, 5/3; 2 ex., 22. 4. 2010, 5/4; 1 ex., 19. 5. 2010, 5/5; 4 ex., 22. 4. 2010, 5/7; 1 ex., 19. 5. 2010, 5/8; 3 ex., 22. 4. 2010, 5/9; 118 ex., 28. 6. 2010, 6/1; 4 ex., 22. 7. 2010, 6/1; 1 ex., 26.

8. 2010, 6/1; 2 ex., 22. 4. 2010, 6/2; 32 ex., 28. 6. 2010, 6/2; 7 ex., 22. 7. 2010, 6/2; 2 ex., 22. 4. 2010, 6/3; 4 ex., 19. 5. 2010, 6/3; 2 ex., 28. 6. 2010, 6/3; 1 ex., 22. 4. 2010, 6/4; 4 ex., 28. 6. 2010, 6/4; 1 ex., 22. 4. 2010, 6/5; 6 ex., 28. 6. 2010, 6/5; 1 ex., 22. 7. 2010, 6/5; 68 ex., 28. 6. 2010, 6/6; 2 ex., 22. 7. 2010, 6/6; 1 ex., 22. 4. 2010, 6/7; 1 ex., 22. 7. 2010, 6/7; 2 ex., 22. 4. 2010, 6/8; 7 ex., 19. 5. 2010, 6/8; 2 ex., 28. 6. 2010, 6/8; 4 ex., 22. 7. 2010, 6/8; 56 ex., 19. 5. 2010, 6/9; 36 ex., 28. 6. 2010, 6/9; 4 ex., 22. 7. 2010, 6/9; 4 ex., 22. 4. 2010, 7/1; 15 ex., 19. 5. 2010, 7/1; 4 ex., 22. 7. 2010, 7/1; 4 ex., 22. 4. 2010, 7/2; 8 ex., 19. 5. 2010, 7/2; 1 ex., 22. 4. 2010, 7/3; 10 ex., 22. 4. 2010, 7/4; 6 ex., 22. 4. 2010, 7/5; 6 ex., 19. 5. 2010, 7/5; 3 ex., 26. 8. 2010, 7/5; 2 ex., 22. 4. 2010, 7/6; 3 ex., 19. 5. 2010, 7/6; 1 ex., 22. 4. 2010, 7/7; 5 ex., 22. 7. 2010, 7/7; 1 ex., 22. 9. 2010, 7/7; 3 ex., 26. 8. 2010, 7/8; 7 ex., 22. 4. 2010, 7/9; 3 ex., 19. 5. 2010, 7/9; 3 ex., 22. 7. 2010, 7/9; 1 ex., 20. 5. 2011, 1/1; 6 ex., 28. 6. 2011, 1/1; 1 ex., 22. 8. 2011, 1/1; 2 ex., 20. 5. 2011, 1/2; 7 ex., 28. 6. 2011, 1/2; 3 ex., 22. 8. 2011, 1/2; 3 ex., 28. 4. 2011, 1/3; 7 ex., 28. 6. 2011, 1/3; 1 ex., 28. 7. 2011, 1/3; 5 ex., 28. 4. 2011, 1/4; 9 ex., 20. 5. 2011, 1/4; 6 ex., 28. 6. 2011, 1/4; 1 ex., 28. 4. 2011, 1/5; 1 ex., 28. 6. 2011, 1/5; 2 ex., 28. 7. 2011, 1/5; 2 ex., 28. 4. 2011, 1/6; 3 ex., 20. 5. 2011, 1/6; 7 ex., 28. 7. 2011, 1/6; 3 ex., 22. 8. 2011, 1/6; 7 ex., 28. 4. 2011, 1/7; 2 ex., 20. 5. 2011, 1/7; 3 ex., 28. 6. 2011, 1/7; 2 ex., 28. 7. 2011, 1/7; 2 ex., 22. 8. 2011, 1/7; 2 ex., 28. 4. 2011, 1/8; 1 ex., 22. 8. 2011, 1/8; 3 ex., 20. 5. 2011, 1/9; 2 ex., 22. 8. 2011, 1/9; 1 ex., 30. 9. 2011, 1/9; 9 ex., 28. 4. 2011, 2/1; 22 ex., 20. 5. 2011, 2/1; 1 ex., 22. 8. 2011, 2/1; 1 ex., 20. 5. 2011, 2/2; 1 ex., 28. 6. 2011, 2/2; 1 ex., 28. 7. 2011, 2/2; 2 ex., 28. 4. 2011, 2/3; 6 ex., 28. 6. 2011, 2/3; 1 ex., 30. 9. 2011, 2/3; 3 ex., 28. 4. 2011, 2/4; 3 ex., 28. 6. 2011, 2/4; 4 ex., 28. 4. 2011, 2/5; 1 ex., 20. 5. 2011, 2/5; 6 ex., 28. 6. 2011, 2/5; 11 ex., 28. 4. 2011, 2/6; 2 ex., 20. 5. 2011, 2/6; 5 ex., 28. 4. 2011, 2/7; 1 ex., 20. 5. 2011, 2/7; 9 ex., 28. 6. 2011, 2/7; 1 ex., 30. 9. 2011, 2/7; 10 ex., 28. 4. 2011, 2/8; 5 ex., 20. 5. 2011, 2/8; 2 ex., 28. 6. 2011, 2/8; 1 ex., 28. 7. 2011, 2/8; 1 ex., 30. 9. 2011, 2/8; 1 ex., 28. 4. 2011, 2/9; 15 ex., 20. 5. 2011, 2/9; 75 ex., 28. 6. 2011, 2/9; 1 ex., 28. 7. 2011, 2/9; 12 ex., 22. 8. 2011, 2/9; 2 ex., 28. 4. 2011, 3/1; 1 ex., 30. 9. 2011, 3/1; 1 ex., 28. 4. 2011, 3/2; 1 ex., 22. 8. 2011, 3/2; 5 ex., 28. 4. 2011, 3/4; 1 ex., 20. 5. 2011, 3/4; 4 ex., 28. 6. 2011, 3/4; 1 ex., 28. 7. 2011, 3/4; 1 ex., 22. 8. 2011, 3/4; 1 ex., 20. 5. 2011, 3/5; 1 ex., 28. 6. 2011, 3/5; 3 ex., 28. 4. 2011, 3/6; 1 ex., 20. 5. 2011, 3/6; 3 ex., 28. 7. 2011, 3/6; 6 ex., 28. 6. 2011, 3/7; 1 ex., 30. 9. 2011, 3/7; 1 ex., 28. 4. 2011, 3/8; 1 ex., 20. 5. 2011, 3/8; 1 ex., 22. 8. 2011, 3/8; 1 ex., 28. 4. 2011, 3/9; 2 ex., 20. 5. 2011, 3/9; 1 ex., 28. 7. 2011, 3/9; 3 ex., 20. 5. 2011, 4/1; 3 ex., 28. 7. 2011, 4/1; 2 ex., 22. 8. 2011, 4/1; 8 ex., 30. 9. 2011, 4/1; 1 ex., 28. 6. 2011, 4/2; 1 ex., 28. 4. 2011, 4/3; 1 ex., 30. 9. 2011, 4/3; 1 ex., 28. 4. 2011, 4/5; 1 ex., 28. 4. 2011, 4/7; 1 ex., 22. 8. 2011, 4/8; 2 ex., 30. 9. 2011, 4/8; 3 ex., 22. 8. 2011, 4/9; 5 ex., 30. 9. 2011, 4/9; 1 ex., 22. 8. 2011, 5/3; 3 ex., 28. 4. 2011, 5/4; 1 ex., 30. 9. 2011, 5/4; 1 ex., 22. 8. 2011, 5/6; 9 ex., 30. 9. 2011, 5/6; 1 ex., 28. 4. 2011, 5/7; 2 ex., 28. 4. 2011, 5/8; 2 ex., 28. 4. 2011, 5/9; 1 ex., 30. 9. 2011, 5/9; 3 ex., 20. 5. 2011, 6/1; 3 ex., 28. 6. 2011, 6/1; 1 ex., 28. 4. 2011, 6/2; 4 ex.,

20. 5. 2011, 6/2; 10 ex., 28. 6. 2011, 6/2; 6 ex., 20. 5. 2011, 6/3; 2 ex., 22. 8. 2011, 6/3; 1 ex., 20. 5. 2011, 6/6; 3 ex., 22. 8. 2011, 6/6; 1 ex., 28. 4. 2011, 6/7; 1 ex., 28. 6. 2011, 6/7; 2 ex., 22. 8. 2011, 6/7; 1 ex., 30. 9. 2011, 6/7; 9 ex., 20. 5. 2011, 6/8; 1 ex., 28. 6. 2011, 6/8; 3 ex., 20. 5. 2011, 6/9; 1 ex., 28. 6. 2011, 6/9; 1 ex., 22. 8. 2011, 6/9; 2 ex., 28. 4. 2011, 7/1; 1 ex., 20. 5. 2011, 7/1; 16 ex., 28. 6. 2011, 7/1; 4 ex., 28. 4. 2011, 7/2; 2 ex., 20. 5. 2011, 7/2; 1 ex., 22. 8. 2011, 7/3; 4 ex., 30. 9. 2011, 7/3; 7 ex., 28. 4. 2011, 7/4; 1 ex., 30. 9. 2011, 7/4; 3 ex., 30. 9. 2011, 7/5; 10 ex., 28. 4. 2011, 7/6; 1 ex., 22. 8. 2011, 7/6; 1 ex., 30. 9. 2011, 7/6; 2 ex., 20. 5. 2011, 7/7; 25 ex., 22. 8. 2011, 7/7; 1 ex., 30. 9. 2011, 7/7; 1 ex., 28. 4. 2011, 7/8; 4 ex., 22. 8. 2011, 7/8; 4 ex., 28. 4. 2011, 7/9; 1 ex., 20. 5. 2011, 7/9; 27 ex., 22. 8. 2011, 7/9; 2 ex., 30. 9. 2011, 7/9.

Poecilus versicolor (Sturm, 1824)

Common species in unshaded habitats (meadows, pastures, fields, water edges with vegetation, forest clearings) known from lowlands to mountains, mostly in hills. Data: 1 ex., 22. 4. 2010, 1/5; 1 ex., 22. 7. 2010, 1/5; 1 ex., 19. 5. 2010, 1/8; 4 ex., 19. 5. 2010, 2/4; 2 ex., 22. 4. 2010, 2/6; 1 ex., 22. 4. 2010, 2/8; 1 ex., 22. 4. 2010, 3/2; 1 ex., 22. 7. 2010, 3/8; 4 ex., 19. 5. 2010, 3/9; 1 ex., 22. 4. 2010, 4/7; 17 ex., 28. 6. 2010, 6/1; 3 ex., 28. 6. 2010, 6/6; 8 ex., 19. 5. 2010, 6/9; 1 ex., 22. 4. 2010, 7/9; 1 ex., 28. 4. 2011, 1/1; 1 ex., 20. 5. 2011, 1/1; 3 ex., 28. 6. 2011, 1/1; 2 ex., 28. 7. 2011, 1/1; 1 ex., 22. 8. 2011, 1/1; 1 ex., 28. 4. 2011, 1/2; 3 ex., 20. 5. 2011, 1/2; 2 ex., 28. 6. 2011, 1/2; 4 ex., 22. 8. 2011, 1/2; 2 ex., 30. 9. 2011, 1/2; 2 ex., 20. 5. 2011, 1/3; 12 ex., 28. 6. 2011, 1/3; 1 ex., 22. 8. 2011, 1/3; 8 ex., 28. 4. 2011, 1/4; 1 ex., 28. 6. 2011, 1/4; 1 ex., 28. 4. 2011, 1/6; 1 ex., 20. 5. 2011, 1/6; 3 ex., 28. 7. 2011, 1/6; 2 ex., 22. 8. 2011, 1/6; 5 ex., 28. 4. 2011, 1/7; 1 ex., 20. 5. 2011, 1/7; 1 ex., 28. 6. 2011, 1/7; 1 ex., 22. 8. 2011, 1/7; 4 ex., 28. 4. 2011, 1/8; 2 ex., 28. 6. 2011, 1/8; 1 ex., 28. 7. 2011, 1/8; 2 ex., 22. 8. 2011, 1/8; 2 ex., 30. 9. 2011, 1/8; 1 ex., 28. 4. 2011, 1/9; 11 ex., 20. 5. 2011, 1/9; 1 ex., 28. 6. 2011, 1/9; 2 ex., 22. 8. 2011, 1/9; 1 ex., 30. 9. 2011, 1/9; 1 ex., 20. 5. 2011, 2/1; 1 ex., 28. 7. 2011, 2/7; 1 ex., 28. 6. 2011, 2/8; 2 ex., 20. 5. 2011, 3/1; 1 ex., 28. 6. 2011, 3/1; 2 ex., 22. 8. 2011, 3/1; 1 ex., 28. 4. 2011, 3/2; 1 ex., 20. 5. 2011, 3/2; 1 ex., 20. 5. 2011, 3/3; 2 ex., 28. 4. 2011, 3/4; 1 ex., 20. 5. 2011, 3/4; 2 ex., 28. 6. 2011, 3/4; 1 ex., 28. 4. 2011, 3/5; 1 ex., 20. 5. 2011, 3/5; 2 ex., 28. 6. 2011, 3/7; 2 ex., 28. 7. 2011, 3/8; 1 ex., 28. 6. 2011, 3/9; 1 ex., 28. 7. 2011, 3/9; 1 ex., 20. 5. 2011, 4/1; 2 ex., 28. 7. 2011, 4/1; 1 ex., 20. 5. 2011, 4/4; 1 ex., 20. 5. 2011, 4/7; 2 ex., 30. 9. 2011, 5/6; 1 ex., 28. 4. 2011, 5/8; 1 ex., 28. 4. 2011, 5/9; 1 ex., 28. 4. 2011, 6/3; 1 ex., 28. 7. 2011, 6/6; 1 ex., 30. 9. 2011, 6/7; 1 ex., 28. 4. 2011, 7/6; 1 ex., 30. 9. 2011, 7/7.

Pseudophonus griseus (Panzer, 1797)

Very common species, in dry to indifferent, unshaded habitats known from lowlands to mountains. Data: 1 ex., 28. 6. 2010, 1/2; 3 ex., 22. 7. 2010, 1/2; 2 ex., 22. 7. 2010, 1/3; 3 ex., 26. 8. 2010, 1/3; 4 ex., 28. 6. 2010, 1/4; 1 ex., 26. 8. 2010, 1/5; 2 ex., 22. 7. 2010, 1/7; 2 ex., 22. 7. 2010, 1/8; 3 ex., 22. 7. 2010,

1/9; 1 ex., 19. 5. 2010, 2/2; 1 ex., 26. 8. 2010, 2/2; 1 ex., 22. 4. 2010, 2/3; 1 ex., 26. 8. 2010, 2/3; 3 ex., 22. 9. 2010, 2/5; 3 ex., 26. 8. 2010, 2/6; 1 ex., 28. 6. 2010, 2/7; 2 ex., 22. 9. 2010, 2/7; 12 ex., 28. 6. 2010, 2/8; 1 ex., 26. 8. 2010, 2/8; 4 ex., 19. 5. 2010, 2/9; 2 ex., 19. 5. 2010, 3/6; 3 ex., 28. 6. 2010, 3/8; 1 ex., 22. 7. 2010, 3/1; 1 ex., 26. 8. 2010, 3/1; 1 ex., 22. 9. 2010, 3/1; 3 ex., 26. 8. 2010, 3/3; 2 ex., 28. 6. 2010, 3/3; 13 ex., 26. 8. 2010, 3/4; 2 ex., 26. 8. 2010, 3/5; 1 ex., 26. 8. 2010, 3/7; 6 ex., 26. 8. 2010, 3/8; 6 ex., 26. 8. 2010, 4/1; 2 ex., 22. 9. 2010, 4/1; 3 ex., 28. 6. 2010, 4/2; 1 ex., 19. 5. 2010, 4/3; 4 ex., 26. 8. 2010, 4/3; 1 ex., 26. 8. 2010, 4/4; 1 ex., 26. 8. 2010, 4/5; 1 ex., 22. 4. 2010, 4/6; 18 ex., 26. 8. 2010, 4/6; 4 ex., 22. 4. 2010, 4/7; 1 ex., 28. 6. 2010, 4/7; 4 ex., 26. 8. 2010, 4/7; 4 ex., 26. 8. 2010, 4/9; 2 ex., 26. 8. 2010, 5/2; 1 ex., 22. 9. 2010, 5/2; 1 ex., 26. 8. 2010, 5/4; 2 ex., 26. 8. 2010, 5/6; 1 ex., 22. 7. 2010, 5/8; 1 ex., 22. 7. 2010, 5/9; 1 ex., 26. 8. 2010, 5/9; 4 ex., 28. 6. 2010, 6/1; 8 ex., 28. 6. 2010, 6/2; 1 ex., 22. 7. 2010, 6/2; 3 ex., 26. 8. 2010, 6/2; 1 ex., 22. 7. 2010, 6/4; 11 ex., 26. 8. 2010, 6/4; 1 ex., 26. 8. 2010, 6/5; 1 ex., 26. 8. 2010, 6/6; 2 ex., 19. 5. 2010, 6/7; 1 ex., 22. 7. 2010, 6/7; 8 ex., 26. 8. 2010, 6/7; 1 ex., 19. 5. 2010, 6/8; 1 ex., 26. 8. 2010, 6/8; 26 ex., 22. 7. 2010, 7/1; 1 ex., 26. 8. 2010, 7/1; 2 ex., 22. 7. 2010, 7/2; 3 ex., 19. 5. 2010, 7/5; 12 ex., 26. 8. 2010, 7/5; 1 ex., 22. 9. 2010, 7/5; 8 ex., 26. 8. 2010, 7/6; 2 ex., 22. 7. 2010, 7/7; 16 ex., 26. 8. 2010, 7/8; 6 ex., 22. 9. 2010, 7/8; 3 ex., 19. 5. 2010, 7/9; 5 ex., 22. 7. 2010, 7/9; 1 ex., 28. 7. 2011, 2/1.

Pseudoophonus rufipes (De Geer, 1774)

Very common species in dry to moderately moist, preferably unshaded habitats known from lowlands to mountains. Data: 1 ex., 26. 8. 2010, 1/2; 3 ex., 22. 9. 2010, 2/7; 2 ex., 22. 7. 2010, 2/8; 1 ex., 22. 7. 2010, 3/2; 2 ex., 26. 8. 2010, 3/4; 3 ex., 22. 7. 2010, 3/8; 3 ex., 22. 7. 2010, 4/1; 1 ex., 22. 7. 2010, 4/2; 4 ex., 22. 7. 2010, 4/3; 1 ex., 22. 7. 2010, 4/5; 9 ex., 26. 8. 2010, 4/6; 3 ex., 28. 6. 2010, 4/9; 1 ex., 22. 7. 2010, 4/9; 1 ex., 22. 4. 2010, 5/2; 2 ex., 22. 7. 2010, 5/9; 3 ex., 22. 7. 2010, 6/1; 2 ex., 28. 6. 2010, 6/2; 2 ex., 22. 7. 2010, 6/3; 4 ex., 22. 7. 2010, 6/4; 4 ex., 26. 8. 2010, 6/4; 2 ex., 22. 7. 2010, 6/5; 3 ex., 28. 6. 2010, 6/6; 1 ex., 22. 7. 2010, 6/6; 6 ex., 19. 5. 2010, 6/7; 6 ex., 22. 7. 2010, 6/7; 2 ex., 22. 7. 2010, 6/8; 6 ex., 22. 7. 2010, 7/2; 4 ex., 22. 7. 2010, 7/3; 1 ex., 28. 6. 2011, 1/2; 1 ex., 28. 7. 2011, 1/2; 11 ex., 22. 8. 2011, 1/2; 1 ex., 22. 8. 2011, 1/5; 3 ex., 28. 7. 2011, 1/6; 1 ex., 28. 7. 2011, 1/7; 1 ex., 22. 8. 2011, 1/7; 2 ex., 28. 7. 2011, 1/8; 2 ex., 20. 5. 2011, 2/1; 4 ex., 28. 7. 2011, 2/1; 1 ex., 22. 8. 2011, 2/1; 2 ex., 20. 5. 2011, 2/2; 21 ex., 28. 6. 2011, 2/2; 1 ex., 28. 7. 2011, 2/2; 5 ex., 30. 9. 2011, 2/2; 3 ex., 20. 5. 2011, 2/3; 5 ex., 28. 6. 2011, 2/3; 3 ex., 22. 8. 2011, 2/3; 10 ex., 28. 6. 2011, 2/4; 2 ex., 28. 7. 2011, 2/4; 2 ex., 22. 8. 2011, 2/4; 1 ex., 30. 9. 2011, 2/4; 17 ex., 28. 6. 2011, 2/5; 3 ex., 28. 7. 2011, 2/5; 3 ex., 22. 8. 2011, 2/5; 1 ex., 20. 5. 2011, 2/6; 4 ex., 28. 6. 2011, 2/6; 6 ex., 28. 6. 2011, 2/7; 7 ex., 28. 7. 2011, 2/7; 5 ex., 22. 8. 2011, 2/7; 1 ex., 28. 4. 2011, 2/8; 2 ex., 20. 5. 2011, 2/8; 3 ex., 28. 6. 2011, 2/8; 4 ex., 28. 7. 2011, 2/8; 4 ex., 22. 8. 2011, 2/8; 1 ex., 20. 5. 2011, 2/9; 1 ex., 28. 6. 2011, 2/9; 4 ex., 28. 7. 2011, 2/9; 14 ex., 22. 8. 2011, 2/9; 1 ex., 28. 4. 2011, 3/2; 1

ex., 28. 7. 2011, 3/3; 1 ex., 28. 6. 2011, 3/4; 1 ex., 28. 7. 2011, 3/4; 3 ex., 22. 8. 2011, 3/4; 1 ex., 28. 7. 2011, 3/5; 2 ex., 30. 9. 2011, 3/5; 1 ex., 22. 8. 2011, 3/6; 1 ex., 30. 9. 2011, 3/6; 3 ex., 22. 8. 2011, 3/7; 2 ex., 22. 8. 2011, 4/1; 2 ex., 30. 9. 2011, 4/1; 1 ex., 28. 6. 2011, 4/2; 1 ex., 22. 8. 2011, 4/2; 6 ex., 30. 9. 2011, 4/2; 1 ex., 22. 8. 2011, 4/3; 3 ex., 30. 9. 2011, 4/3; 1 ex., 30. 9. 2011, 4/4; 1 ex., 20. 5. 2011, 4/5; 1 ex., 28. 7. 2011, 4/5; 3 ex., 30. 9. 2011, 4/5; 1 ex., 30. 9. 2011, 4/6; 3 ex., 28. 7. 2011, 4/7; 1 ex., 22. 8. 2011, 4/7; 2 ex., 28. 7. 2011, 4/8; 1 ex., 22. 8. 2011, 4/8; 3 ex., 30. 9. 2011, 4/8; 1 ex., 20. 5. 2011, 4/9; 2 ex., 28. 7. 2011, 4/9; 1 ex., 22. 8. 2011, 4/9; 3 ex., 30. 9. 2011, 4/9; 2 ex., 22. 8. 2011, 5/1; 26 ex., 30. 9. 2011, 5/1; 5 ex., 28. 7. 2011, 5/2; 2 ex., 22. 8. 2011, 5/3; 7 ex., 30. 9. 2011, 5/3; 1 ex., 30. 9. 2011, 5/5; 1 ex., 28. 6. 2011, 5/6; 4 ex., 30. 9. 2011, 5/6; 3 ex., 30. 9. 2011, 5/7; 5 ex., 30. 9. 2011, 5/8; 1 ex., 22. 8. 2011, 5/9; 7 ex., 30. 9. 2011, 5/9; 3 ex., 28. 6. 2011, 6/2; 6 ex., 28. 7. 2011, 6/2; 18 ex., 22. 8. 2011, 6/2; 2 ex., 28. 6. 2011, 6/3; 3 ex., 28. 7. 2011, 6/3; 1 ex., 28. 6. 2011, 6/4; 1 ex., 22. 8. 2011, 6/4; 1 ex., 20. 5. 2011, 6/5; 3 ex., 28. 6. 2011, 6/5; 12 ex., 30. 9. 2011, 6/5; 1 ex., 22. 8. 2011, 6/6; 2 ex., 30. 9. 2011, 6/6; 1 ex., 20. 5. 2011, 6/7; 2 ex., 28. 6. 2011, 6/7; 11 ex., 28. 7. 2011, 6/7; 1 ex., 22. 8. 2011, 6/7; 9 ex., 30. 9. 2011, 6/7; 2 ex., 20. 5. 2011, 6/8; 9 ex., 30. 9. 2011, 6/8; 2 ex., 28. 6. 2011, 6/9; 3 ex., 28. 7. 2011, 6/9; 8 ex., 22. 8. 2011, 6/9; 1 ex., 20. 5. 2011, 7/1; 4 ex., 28. 6. 2011, 7/1; 13 ex., 28. 7. 2011, 7/1; 35 ex., 22. 8. 2011, 7/1; 10 ex., 28. 7. 2011, 7/2; 6 ex., 28. 7. 2011, 7/3; 6 ex., 22. 8. 2011, 7/3; 23 ex., 30. 9. 2011, 7/3; 4 ex., 28. 7. 2011, 7/4; 14 ex., 30. 9. 2011, 7/4; 1 ex., 28. 4. 2011, 7/5; 6 ex., 28. 7. 2011, 7/5; 11 ex., 30. 9. 2011, 7/5; 8 ex., 28. 7. 2010, 7/6; 1 ex., 22. 8. 2011, 7/6; 6 ex., 30. 9. 2011, 7/6; 2 ex., 28. 7. 2011, 7/7; 3 ex., 22. 8. 2011, 7/7; 9 ex., 30. 9. 2011, 7/7; 3 ex., 26. 8. 2010, 7/8; 1 ex., 28. 7. 2011, 7/8; 11 ex., 22. 8. 2011, 7/8; 14 ex., 30. 9. 2011, 7/8; 1 ex., 28. 4. 2011, 7/9; 4 ex., 20. 5. 2011, 7/9; 5 ex., 28. 7. 2011, 7/9; 41 ex., 22. 8. 2011, 7/9; 38 ex., 30. 9. 2011, 7/9.

Pterostichus burmeisteri Heer, 1838

Common species in forests known from lowlands to mountains, frequent in hills. Data: 1 ex., 20. 5. 2011, 3/7.

Pterostichus melanarius (Illiger, 1798)

Very common eurytopic species of fields, meadows, gardens, as well as forests known from lowlands to mountains. Data: 1 ex., 28. 6. 2010, 1/2; 1 ex., 19. 5. 2010, 2/2; 3 ex., 19. 5. 2010, 2/3; 3 ex., 22. 4. 2010, 2/4; 1 ex., 28. 6. 2010, 2/4; 2 ex., 28. 6. 2010, 2/5; 1 ex., 19. 5. 2010, 2/7; 4 ex., 28. 6. 2010, 2/8; 2 ex., 28. 6. 2010, 3/2; 1 ex., 28. 6. 2010, 3/3; 1 ex., 19. 5. 2010, 3/6; 2 ex., 22. 7. 2010, 4/8; 10 ex., 22. 7. 2010, 6/2; 8 ex., 28. 6. 2010, 6/6; 1 ex., 22. 4. 2010, 6/7; 1 ex., 28. 6. 2010, 6/7; 4 ex., 28. 6. 2010, 6/9; 1 ex., 22. 7. 2010, 6/9; 20 ex., 22. 7. 2010, 7/1; 4 ex., 22. 7. 2010, 7/2; 2 ex., 22. 4. 2010, 7/5; 12 ex., 19. 5. 2010, 7/5; 1 ex., 19. 5. 2010, 7/6; 4 ex., 19. 5. 2010, 7/7; 1 ex., 28. 6. 2011, 1/1; 5 ex., 22. 8. 2011, 1/1; 2 ex., 28. 7. 2011, 1/2; 18 ex., 22. 8. 2011, 1/2; 16 ex., 28. 7. 2011, 1/3; 4 ex., 22. 8. 2011, 1/3; 1 ex., 28. 6. 2011, 1/4; 2 ex., 28. 7. 2011, 1/5;

6 ex., 22. 8. 2011, 1/5; 16 ex., 28. 7. 2011, 1/6; 6 ex., 22. 8. 2011, 1/6; 4 ex., 28. 7. 2011, 1/7; 19 ex., 22. 8. 2011, 1/7; 5 ex., 28. 7. 2011, 1/8; 3 ex., 22. 8. 2011, 1/8; 1 ex., 28. 7. 2011, 1/9; 1 ex., 22. 8. 2011, 1/9; 1 ex., 30. 9. 2011, 1/9; 1 ex., 28. 4. 2011, 2/1; 4 ex., 20. 5. 2011, 2/1; 5 ex., 28. 7. 2011, 2/1; 3 ex., 22. 8. 2011, 2/1; 2 ex., 28. 4. 2011, 2/2; 1 ex., 20. 5. 2011, 2/2; 12 ex., 28. 6. 2011, 2/2; 2 ex., 28. 7. 2011, 2/2; 1 ex., 28. 4. 2011, 2/3; 1 ex., 28. 6. 2011, 2/3; 2 ex., 22. 8. 2011, 2/3; 4 ex., 28. 6. 2011, 2/4; 4 ex., 28. 7. 2011, 2/4; 5 ex., 22. 8. 2011, 2/4; 1 ex., 30. 9. 2011, 2/4; 5 ex., 28. 6. 2011, 2/5; 4 ex., 28. 7. 2011, 2/5; 1 ex., 22. 8. 2011, 2/5; 3 ex., 28. 4. 2011, 2/6; 1 ex., 28. 6. 2011, 2/7; 6 ex., 28. 7. 2011, 2/7; 1 ex., 28. 4. 2011, 2/8; 1 ex., 28. 6. 2011, 2/8; 6 ex., 28. 7. 2011, 2/8; 1 ex., 22. 8. 2011, 2/8; 1 ex., 30. 9. 2011, 2/8; 3 ex., 28. 6. 2011, 2/9; 4 ex., 28. 7. 2011, 2/9; 18 ex., 22. 8. 2011, 2/9; 5 ex., 28. 7. 2011, 3/1; 5 ex., 22. 8. 2011, 3/1; 1 ex., 30. 9. 2011, 3/1; 2 ex., 28. 7. 2011, 3/2; 1 ex., 22. 8. 2011, 3/3; 2 ex., 28. 6. 2011, 3/4; 3 ex., 22. 8. 2011, 3/4; 1 ex., 28. 6. 2011, 3/5; 2 ex., 28. 7. 2011, 3/5; 1 ex., 22. 8. 2011, 3/5; 4 ex., 30. 9. 2011, 3/5; 11 ex., 28. 7. 2011, 3/6; 5 ex., 28. 6. 2011, 3/7; 6 ex., 28. 7. 2011, 3/7; 6 ex., 22. 8. 2011, 3/7; 2 ex., 30. 9. 2011, 3/7; 3 ex., 28. 7. 2011, 3/8; 2 ex., 22. 8. 2011, 3/8; 8 ex., 28. 7. 2011, 3/9; 30 ex., 28. 7. 2011, 4/1; 1 ex., 28. 6. 2011, 4/2; 1 ex., 22. 8. 2011, 4/2; 2 ex., 30. 9. 2011, 4/2; 3 ex., 28. 7. 2011, 4/3; 2 ex., 22. 8. 2011, 4/3; 1 ex., 28. 7. 2011, 4/4; 1 ex., 28. 7. 2011, 4/5; 1 ex., 28. 4. 2011, 4/6; 1 ex., 28. 7. 2011, 4/6; 1 ex., 22. 8. 2011, 4/6; 1 ex., 20. 5. 2011, 4/7; 2 ex., 28. 6. 2011, 4/7; 1 ex., 28. 7. 2011, 4/7; 3 ex., 22. 8. 2011, 4/7; 1 ex., 28. 7. 2011, 4/8; 4 ex., 22. 8. 2011, 4/8; 2 ex., 28. 7. 2011, 4/9; 2 ex., 22. 8. 2011, 4/9; 3 ex., 28. 7. 2011, 5/1; 2 ex., 22. 8. 2011, 5/1; 1 ex., 30. 9. 2011, 5/1; 12 ex., 28. 7. 2011, 5/2; 1 ex., 28. 7. 2011, 5/3; 1 ex., 22. 8. 2011, 5/3; 1 ex., 28. 6. 2011, 5/4; 1 ex., 28. 7. 2011, 5/4; 1 ex., 28. 6. 2011, 5/5; 1 ex., 28. 7. 2011, 5/6; 1 ex., 22. 8. 2011, 5/6; 1 ex., 22. 8. 2011, 5/8; 1 ex., 22. 8. 2011, 5/9; 4 ex., 22. 8. 2011, 6/1; 10 ex., 28. 6. 2011, 6/2; 8 ex., 28. 7. 2011, 6/2; 1 ex., 22. 8. 2011, 6/2; 1 ex., 28. 6. 2011, 6/3; 6 ex., 28. 7. 2011, 6/3; 3 ex., 22. 8. 2011, 6/3; 1 ex., 28. 6. 2011, 6/4; 8 ex., 28. 7. 2011, 6/4; 3 ex., 28. 6. 2011, 6/5; 3 ex., 28. 7. 2011, 6/5; 1 ex., 22. 8. 2011, 6/5; 2 ex., 30. 9. 2011, 6/5; 1 ex., 20. 5. 2011, 6/6; 7 ex., 28. 7. 2011, 6/6; 4 ex., 22. 8. 2011, 6/6; 3 ex., 30. 9. 2011, 6/6; 1 ex., 20. 5. 2011, 6/7; 11 ex., 28. 6. 2011, 6/7; 44 ex., 28. 7. 2011, 6/7; 14 ex., 22. 8. 2011, 6/7; 2 ex., 30. 9. 2011, 6/7; 4 ex., 28. 6. 2011, 6/8; 3 ex., 30. 9. 2011, 6/8; 8 ex., 28. 6. 2011, 6/9; 5 ex., 28. 7. 2011, 6/9; 4 ex., 22. 8. 2011, 6/9; 5 ex., 28. 4. 2011, 7/1; 1 ex., 20. 5. 2011, 7/1; 21 ex., 28. 6. 2011, 7/1; 21 ex., 28. 7. 2011, 7/1; 20 ex., 22. 8. 2011, 7/1; 1 ex., 28. 4. 2011, 7/2; 1 ex., 20. 5. 2011, 7/2; 8 ex., 28. 7. 2011, 7/2; 1 ex., 20. 5. 2011, 7/3; 5 ex., 28. 7. 2011, 7/3; 1 ex., 22. 8. 2011, 7/3; 1 ex., 30. 9. 2011, 7/3; 1 ex., 28. 6. 2011, 7/4; 8 ex., 28. 7. 2011, 7/4; 4 ex., 30. 9. 2011, 7/4; 1 ex., 28. 4. 2011, 7/5; 17 ex., 28. 7. 2011, 7/5; 6 ex., 22. 8. 2011, 7/5; 9 ex., 30. 9. 2011, 7/5; 3 ex., 20. 5. 2011, 7/6; 1 ex., 28. 6. 2011, 7/6; 1 ex., 28. 7. 2011, 7/6; 2 ex., 22. 8. 2011, 7/6; 1 ex., 28. 4. 2011, 7/7; 5 ex., 28. 7. 2011, 7/7; 6 ex., 22. 8. 2011, 7/7; 1 ex., 30. 9. 2011, 7/7; 1 ex., 28. 7. 2011, 7/8; 5 ex., 22. 8. 2011, 7/8; 1 ex., 30. 9. 2011, 7/8; 2 ex., 28. 4. 2011, 7/9;

3 ex., 20. 5. 2011, 7/9; 10 ex., 28. 7. 2011, 7/9; 30 ex., 22. 8. 2011, 7/9; 36 ex., 30. 9. 2011, 7/9.

Pterostichus niger (Schaller, 1783)

Common species in moist habitats, indifferent to shade (meadows, forests, water margins with vegetation) known from lowlands to mountains, frequent in hills. Data: 1 ex., 28. 7. 2011, 1/8; 1 ex., 28. 7. 2011, 3/3; 1 ex., 28. 7. 2011, 3/5; 1 ex., 30. 9. 2011, 3/5; 1 ex., 22. 8. 2011, 3/7; 1 ex., 22. 8. 2011, 4/7; 1 ex., 22. 8. 2011, 4/8; 4 ex., 22. 8. 2011, 5/1; 6 ex., 30. 9. 2011, 5/1; 1 ex., 30. 9. 2011, 5/3; 1 ex., 30. 9. 2011, 5/4; 1 ex., 30. 9. 2011, 5/7; 1 ex., 30. 9. 2011, 5/8; 1 ex., 22. 8. 2011, 5/9; 1 ex., 22. 8. 2011, 6/3; 1 ex., 22. 8. 2011, 6/4; 1 ex., 28. 7. 2011, 6/5; 2 ex., 28. 7. 2011, 6/6; 1 ex., 22. 8. 2011, 6/6; 1 ex., 28. 6. 2011, 6/7; 4 ex., 22. 8. 2011, 6/7; 1 ex., 28. 6. 2011, 6/8; 1 ex., 30. 9. 2011, 6/8; 2 ex., 30. 9. 2011, 7/5.

Pterostichus oblongopunctatus (Fabricius, 1787)

Very common species in all types of forests known from lowlands to mountains, frequent in hills. Data: 1 ex., 22. 9. 2010, 1/4; 6 ex., 22. 7. 2010, 2/6; 2 ex., 22. 7. 2010, 4/3; 3 ex., 22. 7. 2010, 4/9; 1 ex., 28. 6. 2010, 5/2; 1 ex., 19. 5. 2010, 5/5; 1 ex., 19. 5. 2010, 5/8; 1 ex., 22. 7. 2010, 5/9; 1 ex., 28. 6. 2010, 6/4; 3 ex., 22. 7. 2010, 7/2; 1 ex., 30. 9. 2011, 2/2; 1 ex., 30. 9. 2011, 4/3; 1 ex., 28. 6. 2011, 4/6; 1 ex., 20. 5. 2011, 4/7.

Pterostichus ovoideus (Sturm, 1824)

Common species in rather moist habitats, indifferent to shade (meadows near water, edges of waters with vegetation, floodplain forests, groves) known from lowlands to mountains, frequently in hills. Data: 1 ex., 22. 4. 2010, 1/8; 2 ex., 22. 4. 2010, 2/3; 1 ex., 22. 4. 2010, 2/7; 1 ex., 22. 4. 2010, 2/8; 1 ex., 22. 4. 2010, 3/3; 3 ex., 22. 4. 2010, 4/7; 1 ex., 19. 5. 2010, 4/9; 1 ex., 19. 5. 2010, 5/3; 1 ex., 22. 4. 2010, 5/9; 1 ex., 22. 4. 2010, 6/1; 1 ex., 22. 4. 2010, 6/7; 1 ex., 22. 4. 2010, 6/8; 1 ex., 19. 5. 2010, 6/8; 1 ex., 22. 4. 2010, 7/5; 1 ex., 28. 7. 2011, 1/1; 1 ex., 20. 5. 2011, 1/3; 1 ex., 20. 5. 2011, 1/4; 1 ex., 28. 4. 2011, 1/7; 1 ex., 28. 6. 2011, 1/7; 1 ex., 20. 5. 2011, 1/9; 1 ex., 28. 6. 2011, 1/9; 1 ex., 28. 6. 2011, 2/4; 1 ex., 28. 4. 2011, 2/5; 2 ex., 28. 4. 2011, 2/6; 1 ex., 28. 6. 2011, 2/6; 1 ex., 28. 4. 2011, 2/7; 1 ex., 28. 6. 2011, 2/8; 1 ex., 28. 6. 2011, 4/2; 1 ex., 20. 5. 2011, 4/4; 1 ex., 28. 4. 2011, 4/5; 1 ex., 20. 5. 2011, 4/5; 1 ex., 28. 7. 2011, 4/5; 2 ex., 28. 4. 2011, 4/6; 1 ex., 28. 4. 2011, 4/8; 1 ex., 22. 8. 2011, 4/8; 1 ex., 28. 4. 2011, 4/9; 2 ex., 28. 4. 2011, 5/8; 1 ex., 28. 4. 2011, 6/5; 1 ex., 20. 5. 2011, 6/5; 1 ex., 28. 4. 2011, 6/6; 1 ex., 28. 6. 2011, 6/6; 1 ex., 28. 4. 2011, 6/7; 1 ex., 20. 5. 2011, 6/7.

Pterostichus strenuus (Panzer, 1797)

Very common species, prefers moist habitats, indifferent to shade (floodplain forests, meadows near water, margins of waters with vegetation, forest clearings), from lowlands to mountains. Data: 1 ex., 28. 4. 2011, 4/9.

Pterostichus vernalis (Panzer, 1796)

Very common species in moist to wet habitats, indifferent to shade (grassy water shores, moist meadows, floodplain forests, gardens) known from lowlands to mountains. Data: 1 ex., 28. 6. 2011, 6/6.

Semiophonus signaticornis (Duftschmid, 1812)

Sporadic species in unshaded, preferably dry habitats (steppe, fields, pastures) known from lowlands to hills. Data: 1 ex., 28. 6. 2011, 6/1.

Stomis pumicatus (Panzer, 1796)

Common species. Data: 1 ex., 22. 4. 2010, 3/7.

Syntomus truncatellus (Linnaeus, 1761)

Common species in rather dry habitats (steppe, heaths) known from lowlands to mountains, often in hills. Data: 1 ex., 28. 4. 2011, 7/7.

Synuchus vivalis (Illiger, 1798)

Common to sporadic species in unshaded habitats (meadows, fields) known from lowlands to mountains, mostly in hills. Data: 1 ex., 22. 8. 2011, 3/7.

Trechus quadristriatus (Schränk, 1781)

Very common species on moderately dry and moist habitats, indifferent to shade (fields, forests) known from lowlands to mountains. Data: 1 ex., 22. 4. 2010, 2/8; 1 ex., 30. 9. 2011, 2/6; 1 ex., 20. 5. 2011, 7/4.

Trichotichnus laevicollis (Duftschmid, 1812)

Very common species in forests and at forest edges known from mountains to lowlands, often in foothills. Data: 1 ex., 22. 4. 2010, 5/5.

Zabrus tenebrioides (Goeze, 1777)

Local common to very common species in wheat fields known from lowlands to foothills. Data: 1 ex., 28. 7. 2011, 2/5; 1 ex., 22. 8. 2011, 2/9; 1 ex., 22. 8. 2011, 7/9.

Generally, the fauna of ground beetles found in sinkholes is surprisingly rich (88 species), given that this is an area under constant human pressure and some sinkholes were in the past even backfilled (Poustevník – Šenkýřík, 2005). The only semi-natural habitats in the vicinity of the monitored areas, where there was a research of ground beetles conducted, are the slopes of Macošská and Vilémovická stráň (Niedobová *et al.*,

2011a). Although it is a highly valuable territory, in contrast to sinkholes, a relatively small amount of ground beetles (41 species) was found there. This species richness is probably due ecotone effect where species of meadows, shrubs and fields (hence migrant forest species) mingle, because sinkholes are the only places in the fields, where there is humid and shady environment. Ground beetles need for their life higher humidity and therefore they are more common e.g. in forest ecosystems, not in the fields (Holland, 2002). However, in our work we found more ground beetles than Horák (2008) found in purely forest ecosystems on the border of the Drahany highlands and the Moravian Karst (Rakovec valley).

At the selected sites, the occurrence of a relict species of Carabidae, *Aptinus bombardus*, was registered. It does not occur in Bohemia and it is rare in Moravia. It prefers deciduous forests, it is often found in the debris, especially on limestone. It occurs from the lowlands to the mountains, mostly in the hills. It has been reported as prolific only from the area of Moravian Karst, but there are some other records from Českomoravská vrchovina Highland and from Bílé Karpaty Mts (Uhlíková, 2009). From the perspective of the Red List of Carabidae in the Czech Republic (Veselý *et al.*, 2005) one vulnerable species (VU), *Cylindera germanica* was found, which we discovered in the sinkholes surrounded by field crops, but also in sinkholes in the middle of permanent grasslands. This is a species which is traditionally bound to bare dusty substrate (Ryšán & Kočárek, 2010), which is in the case of its occurrence in grassed areas somewhat controversial. This species generally disappeared from the landscape, for example in Prague it extinct completely (Veselý, 2006). An interesting finding is the discovery of a rare species *Drypta dentata* which only occurs more often in Moravia. Among other species rarely found we have to specifically mention *Licinus depressus*, *Molops elatus*, *Panagaeus bipustulatus*, *P. cruxmajor*, *Semiophonus signaticornis*, but all these species cannot be explicitly described as rare and in favorable conditions they often occur abundantly (*Molops elatus*).

It can be therefore concluded that the ground beetle fauna is very rich in sinkholes even despite the fact that practically only abundant species exist there. Sinkholes contribute to an increase in biodiversity of agrarian landscape of karst plateaus. A similar finding was also reached by Hula *et al.* (2012) in terms of spider fauna in sinkholes.

SUMMARY

The paper presented demonstrates faunistic results of Carabidae of research of selected sinkholes in the northern part of the protected landscape area of Moravian Karst. All sinkholes are found in the faunistic square 6666. The collection of ground beetles was conducted using pitfall traps in 2010 and 2011. Pitfall traps were placed so that they captured the entire spectrum of epigeic species living in sinkholes and their immediate surroundings. Nine traps were placed over the entire sinkhole. Two traps (the first one and the last one) were located outside of the sinkhole in the surrounding culture,

four traps were placed on the sides of the sinkhole (in the upper part and in the slope) and one was placed at the bottom of the sinkhole (if possible). Traps were placed in this design at all the monitored areas (7 sinkholes), thus a total number of 63 traps were placed. Traps line was always placed in the north-south orientation. A total of 88 species of Carabidae were caught in both years. In the studied area, there was registered incidence of five endangered species of Carabidae in accordance with Decree No. 395/1992 Coll. as amended. These were *Brachinus crepitans*, *Brachinus expulso*, *Carabus ullrichii*, *Cicindela campestris*, and *Cylindera germanica*. At the monitored sites, occurrence of two species of Carabidae (*Carabus cancellatus* and *Cylindera germanica*) included in the Red List of Threatened Species in the Czech Republic was registered. In one species (*Cylindera germanica*) the Decree 395/1992 Coll. and the Red List of Threatened Species in the Czech Republic meet. All studied sinkholes were dominated by eurytopic and adaptable species, only one relict species (*Aptinus bombarda*) was discovered. Generally, the fauna of ground beetles found in sinkholes is surprisingly rich, given that this is an area under constant human pressure and some sinkholes were in the past even backfilled.

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