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FAUNISTIC RECORDS FROM THE CZECH REPUBLIC – 537

Coleoptera: Carabidae

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Amara* (*Zezea*) *fulvipes (Audinet-Serville, 1821). Moravia mer., Oleksovice env. (7163a), 48°53′35″N 16°14′42″E, 240 m a.s.l., 14.xi.2022, 1 ♀; same locality, 16.i.2023, 1 ♂, both spec. M. Linhart leg., det. et coll., J. Hejkal revid.

Both specimens (Figs 1–2) were found hibernating under moss on an unshaded, partially overgrown moor in the southwestern part of Oleksovické vřesoviště Natural Monument, always together with *Amara* (*Zezea*) *tricuspidata* Dejean, 1831 and very abundant *A.* (*Amara*) *lunicollis* Schiødte, 1837.

The species is widespread mainly in southern and central Europe. It is known from Albania, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, France, Germany, Greece, Hungary, Italy, Luxembourg, Montenegro, North Macedonia, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Switzerland, and Ukraine. In Asia it is known only from Turkey (Hieke 2017). In the Czech Republic only old findings were known from central Bohemia: Čelákovice and Lysá (Kult 1944). These data were specified in the unpublished prodromus by Pulpán (1993): "Čelákovice (1909, III.09)" and "Lysá n. Labem" (without date). From Bohemia, the species was also reported by Hieke (1970) with no details. However, *A.* (*Z.*) *fulvipes* is not included in the current Red List of threatened species of the carabid beetles of the Czech Republic (Veselý et al. 2017).

Amara (*Z.*) *fulvipes* occurs in dry and warm unshaded grassy habitats (Hieke 1970, Marggi 1992, Hejkal & Hůrka 1996). It has been observed feeding on the flowers of grasses *Alopecurus pratensis*, *Poa angustifolia* (Hejkal & Hůrka 1996), and *Anthoxanthum odoratum* (in Romania, P. Moravec, pers. comm.). Pétremand et al. (2018) reported *A.* (*Z.*) *fulvipes* from green roofs in Switzerland, which suggests good flight ability in this species. Confirmed occurrence of this species in the Czech Republic after 113 years and the first findings in Moravia.

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REFERENCES

HEJKAL J. & HŮRKA K. 1996: Genus Amara Bonelli. Pp. 324–359. In: HŮRKA K. (ed.): *Carabidae of the Czech and Slovak Republics. Carabidae České a Slovenské republiky*. Kabourek, Zlín, 565 pp. (in English and Czech).

HIEKE F. 1970: Die paläarktischen Amara-Arten des Subgenus Zezea Csiki (Carabidae, Coleoptera). *Deutsche Entomologische Zeitschrift* (*N. F.*) **17**: 119–214.

HIEKE F. 2017: Family Carabidae Latreille, 1802: subtribe Amarina C. Zimmermann, 1832. Pp. 794–828. In: LÖBL I. & LÖBL D. (eds): *Catalogue of Palaearctic Coleoptera. Volume 1. Archostemata – Myxophaga – Adephaga. Revised and Updated Edition*. Brill, Leiden & Boston, xxxiv + 1443 pp.

KULT K. 1944: Nálezy nových nebo vzácných Carabidů ze střední Evropy. (Carabidae Europae centralis novae vel rariores). *Sborník Entomologického Oddělení Zemského Musea v Praze* **21–22**: 373–379 (in Czech, Latin summary).

MARGGI W. A. 1992: *Faunistik der Sandlaufkäfer und Laufkäfer der Schweiz (Cicindelidae & Carabidae), Coleoptera, unter besonderer Berücksichtigung der "Roten Liste". Teil 1/Text.* Centre suisse de cartographie de la faune (CSCF), Neuchâtel, 477 pp.

PÉTREMAND G., CHITTARO Y., BRAAKER S., BRENNEISEN S., GERNER M., OBRIST M. K., ROCHEFORT S., SZALLIES A. & MORETTI M. 2018: Ground beetle (Coleoptera: Carabidae) communities on green roofs in Switzerland: synthesis and perspectives. *Urban Ecosystems* **21**: 119–132.

PULPÁN J. 1993: *Prodromus střevlíkovitých brouků Československa.* [*Prodromus of the ground beetles of Czechoslovakia*]. Unpublished manuscript. Deposited in: Archive of Petr Veselý, Praha, 3018 + 155 pp. (in Czech).

VESELÝ P., MORAVEC P. & STANOVSKÝ J. 2017: Carabidae (střevlíkovití). Pp. 295–301. In: HEJDA R., FARKAČ J. & CHOBOT K. (eds): Červený seznam ohrožených druhů České republiky. Bezobratlí. Red List of threatened species of the Czech Republic. Invertebrates. *Příroda* **36**: 1–612 (in Czech and English).



Figs 1–2. *Amara* (*Zezea*) *fulvipes* (Audinet-Serville, 1821). Habitus in dorsal view. 1: male, body length 10.2 mm, southern Moravia, Oleksovice, coll. M. Linhart. 2: female, body length 10.2 mm, southern Moravia, Oleksovice, coll. M. Linhart. Photographs by P. Krásenský.
Obr. 1–2. *Amara* (*Zezea*) *fulvipes* (Audinet-Serville, 1821). Vzhled ze hřbetní strany. 1: samec, délka těla 10,2 mm, jižní Morava, Oleksovice, coll. M. Linhart. 2: samice, délka těla 10,2 mm, jižní Morava, Oleksovice, coll. M. Linhart. Fotografie P. Krásenský.