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Distribution of the species *Bryaxis monstrosetibialis* in Slovakia (Coleoptera: Staphylinidae: Pselaphinae)

Rozšírenie druhu *Bryaxis monstrosetibialis* na Slovensku (Coleoptera: Staphylinidae: Pselaphinae)

Peter HLAVÁČ

J. Hanulu 15, SK-034 01 Ružomberok, Slovakia

Faunistics, Coleoptera, Staphylinidae, Pselaphinae, *Bryaxis*, Slovakia

Abstract. Records of *Bryaxis monstrosetibialis* (Stolz, 1923) endemic to Slovakia are summarized, the biology of the species is discussed and its complete synonymy is mentioned. Drawing of habitus and aedeagus are also provided.

Despite its relatively small area, the Slovak Republic has a very interesting Coleopteran fauna, including a number of endemic species. The subfamily Pselaphinae has only one species, *Bryaxis monstrosetibialis* (Stolz, 1923), endemic to Slovakia. Study of literature and private collections has enabled me to improve our knowledge of the distribution (Fig. 1) and biology of this species since it has been last undertaken by Roubal (1930).

The following abbrevations are used throughout the text: PH - Peter Hlaváč collection; LK - Libor Klíma collection; lgt. – legit.

Bryaxis monstrosetibialis (Stolz, 1923)

Bythinus monstrosetibialis Stolz, 1923: 71-72, type: Slovakia, Rožňava env.
Bythinus Trojani Fleischer, 1925: 17-18, type: Slovakia: Demänovská jaskyňa (cave), (synonymy after Machulka 1930: 120-121).
Megalobythus Trojani Fleischer: Machulka 1929a: 22; Machulka 1929b: 23-24.
Bythinus (*Macrobythus*) *monstrosetibialis* Stolz: Roubal 1930: 507-508.
Bythinus monstrosetibialis Stolz var. *ocularis* Machulka, 1935: 131, type: Slovakia: Dobšiná, Dobšinská jaskyňa (cave).
Balcanobythus (*Megalobythus*) *monstrosetibialis* Stolz: Karaman 1957: 187, 208, fig. 6 (aedeagus).
Bryaxis monstrosetibialis Stolz: Besuchet 1973: 349, fig. "F.Basis 18:28" (first two antennal segments).

Published records. Earlier data are included in the works of Roubal (1930, 1941) and Machulka (1929a, 1929b, 1930, 1935) from the following localities: Slovakia: Rožňava env. (7389), Košice env. (72-7393), Gemer (exact locality not available), Krupina (7680), Nová Baňa (7577), Muráň (7286), Dobšiná, Dobšinská jaskyňa (70-7187). Only one further more recent record has been published since (Majzlan & Rychlík 1994): Zádiel (7391).
Unpublished records. Slovakia: Slovenský kras (exact locality not available), 8.vii.1986, snow hole, in stony humus soil under leaves, L. Klíma lgt., 1 ♀ (PH); Tisovec env., Michňová jama env. (72-7385), 14.vi.1991, L. Klíma lgt., 1 ♀ (LK); Handlová (7278b), 14.viii.1991, O. Majzlan lgt., 1 ♂ (PH); Plešivecká planina, Lastovičia jama (7488), date unknown, L. Klíma lgt., 1 ♂ (LK); ditto, 2.vi.1996, stony soil, J. Lakota lgt., 1 ♂ (PH); Košice - Čermeľ (72-7393), 11.x.1995, wood-humus sifting (*Fagus*), T. Lackner lgt., 1 ♂ (PH).

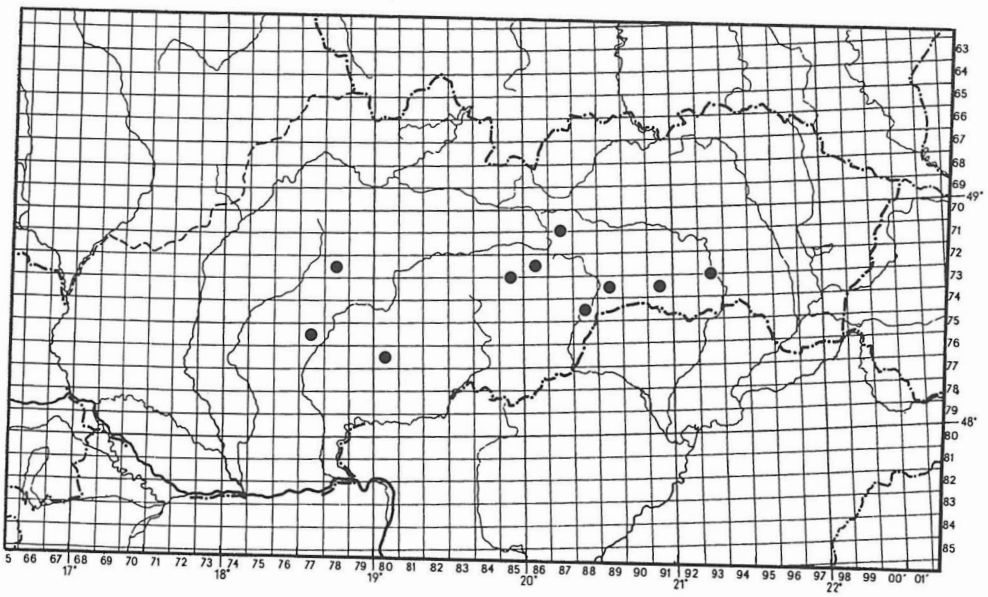


Fig. 1. Distribution of *Bryaxis monstrosetibialis* (Stolz, 1923).
Obr. 1. Rozšírenie druhu *Bryaxis monstrosetibialis* (Stolz, 1923).

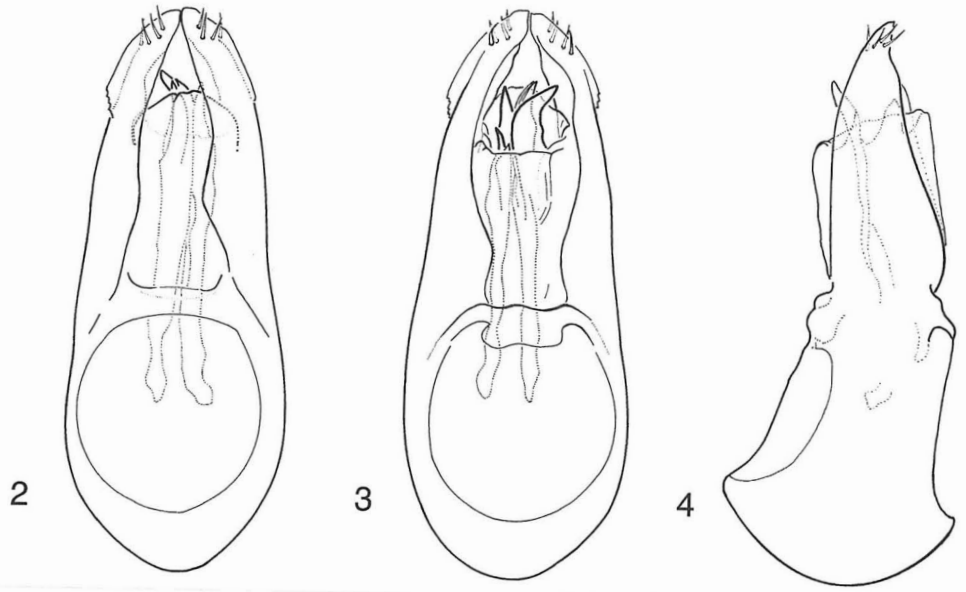


Fig. 2-4. *Bryaxis monstrosetibialis* (Stolz, 1923), aedeagus: 2 - dorsal aspect, 3 - ventral aspect, 4 - lateral aspect. Scale 0.1 mm.
Obr. 2-4. *Bryaxis monstrosetibialis* (Stolz, 1923), edeágus: 2 - dorsálny pohľad, 3 - ventrálny pohľad, 4 - laterálny pohľad. Mierka 0,1 mm.

Diagnosis. *Bryaxis monstrosetibialis* can be easily distinguished between all so far known species of the genus *Bryaxis* by the structure of scape and pedicel (Fig. 5) as well as by the structure of aedeagus (Figs 2-4).

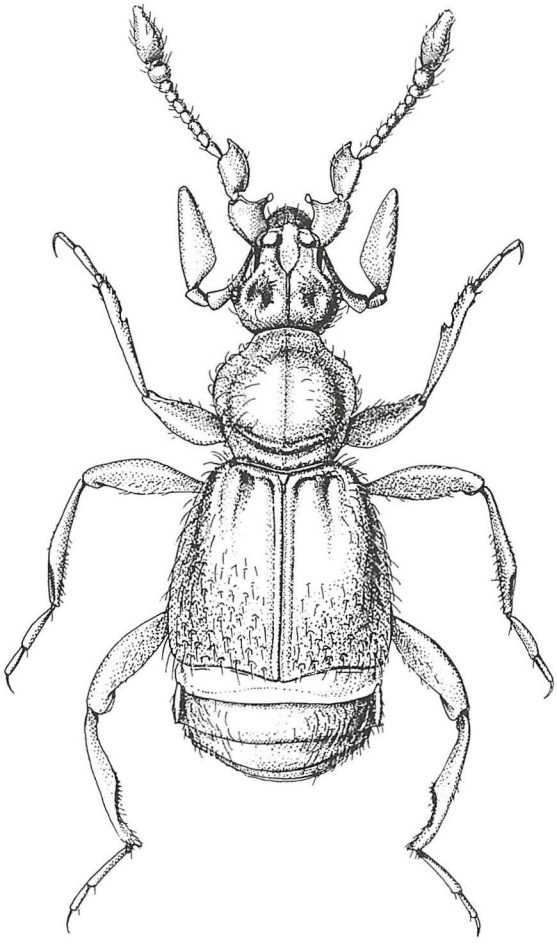


Fig. 5. *Bryaxis monstrosetibialis* (Stolz, 1923), dorsal aspect of the male.
Obr. 5. *Bryaxis monstrosetibialis* (Stolz, 1923), celkový pohľad, samec.

Biology. The biology of *Bryaxis monstrosetibialis* is not very well known. Roubal (1930) specified the following habitats: cave entrance, also inside caves in soil, under fallen leaves, generally in cool, shaded habitats out of the sun. These facts have been confirmed by recent captures. The species is distributed over a large part of Slovakia with an assumed center in the Slovenský kras karst. Published data (Roubal 1930, Besuchet 1973) shows this to be a very scarce species. Since the published captures of the 1930's the species has not been recorded in papers on Slovak Pselaphinae for almost 50 years (Korbel 1948; Depta 1948; Löbl 1961, 1963; Rous 1967).

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SÚHRN

Jediným endemickým zástupcom podčeladi Pselaphinae na Slovensku je *Bryaxis monstrosetibialis* (Stolz, 1923). Medzi hlavné biotopy tohto veľmi vzácneho druhu patria chladné, zatienené miesta s lesným humusom, vchody jaskýň, bol však vyhrabaný zo zeme aj priamo v jaskyniach. Nachádza sa na širokom území Slovenska (obr. 1) s centrom výskytu v Slovenskom Krase. V práci sú nové údaje, ktoré značne rozširujú naše poznatky o jeho výskyte. Práca obsahuje kresby edeágu zo všetkých troch pohľadov (obr. 2-4) ako aj ilustráciu habitu (obr. 5).