

**The first record of *Tychus dalmatinus dalmatinus*
(Coleoptera: Pselaphidae) for Slovakia**

**Prvý nález *Tychus dalmatinus dalmatinus*
(Coleoptera: Pselaphidae) na Slovensku**

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Abstract. *Tychus dalmatinus dalmatinus* Reitter, 1880 is for the first time reported from Slovakia. The possibility of the occurrence of *Tychus pullus* Kiesenwetter, 1858 in Slovakia is also discussed.

INTRODUCTION

Only one species of the genus *Tychus* Leach, 1817, *Tychus niger* Paykull, 1789 has been recorded from Slovakia according to the last Check-list of Czechoslovak Coleoptera (Rous 1993). Study of material in the private collection of Mr. L. Klíma and in the collection of SNMB provides additional information.

The following abbreviations are used in the text:

CPHK - coll. Peter Hlaváč, Košice;

SNMB - Slovak National Museum, Bratislava;

MNHN - Musée National d'Histoire Naturelle, Paris;

IRSNB - Institute Royal des Sciences Naturelles de Belgique, Bruxelles.

SYSTEMATICS

***Tychus dalmatinus dalmatinus* Reitter, 1880 (Fig. 1)**

Tychus dalmatinus Reitter 1880: 216-217; type: Croatia, Knin (MNHN).

Tychus dalmatinus: Ganglbauer 1895: 840; Karaman 1955: 110-112, f. g. 4.

Material examined. Slovakia mer., Kamenín (8177), salt soil, 2.vi.1983, L. Klíma leg., 1 ♂, CPHK; Croatia, Dalmacia, Knin, 1879, E. Reitter leg., 1 ♂, IRSNB; Bulgaria bor. or., Kranevo, 16.ix.1966, P. Nohel leg., 1 ♂, SNMB.

Other central European records. Hungary, Plattensee (Balaton Lake), V. Machulka leg., 1935 (Horion 1949).

Distribution. The nominotypical form is distributed in Balkan Peninsula, Asia Minor and the Caucasus. In Italy it is replaced by *Tychus dalmatinus mutinensis* Reitter, 1880.

Note. I had a possibility to compare the Slovak specimen with 2 ♂♂ from Croatia and Bulgaria (see the material listed above). The Slovak specimen is more robust and bigger (body length = 1.75 mm; body width = 0.7 mm) than the specimens from Croatia and Bulgaria

which have the body lengths 1.53 mm and 1.56 mm, respectively. According to Reitter (1880), Ganglbauer (1895) and Karaman (1955) the body length is between 1.3-1.5 mm. The other difference is in the shape of aedeagus where a big tooth is presented in the middle of sinuate distal tubule (Fig. 1). This big tooth is missing or negligible in the other studied specimens from Bulgaria and Croatia as well as on the picture of aedeagus of Karaman (1955). Because of lack of the further material from central Europe, it is not possible to reach any conclusion at this time about the presence of undescribed central European subspecies of *Tychus dalmatinus* and this question remains open.

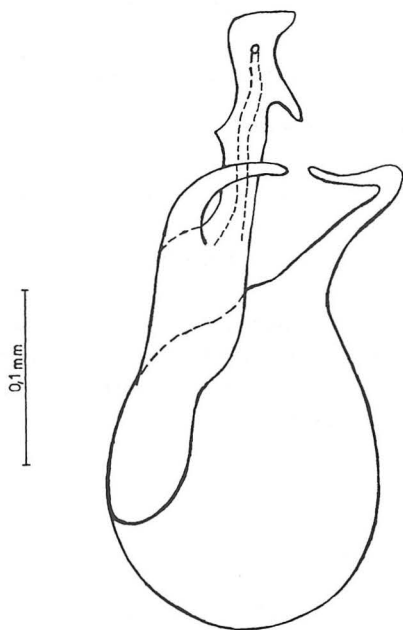


Fig. 1. *Tychus dalmatinus dalmatinus* Reitter 1880, Slovakia, Kamenín - aedeagus, dorsal aspect.
Obr. 1. *Tychus dalmatinus dalmatinus* Reitter 1880, Slovakia, Kamenín - edeágus, dorsálny pohľad.

Tychus pullus Kiesenwetter, 1858

Tychus pullus Kiesenwetter in Kraatz 1858: 46, type: Greece, Nauplia (probably Museum of Munich).

Tychus hirtulus Reitter, 1880: 217-218, type: Croatia, Metkovitch, near Knin (MNHN Paris), (synonymy after Besuchet 1969: 417); Ganglbauer 1895: 839.

Tychoides hirtulus: Karaman 1955: 128-129, figs. 32-34.

Material examined. Slovakia, Lok (7776), iv.1936, J. Roubal leg., 1 ♂; Slovakia, Žitva (8275), v.1931, J. Roubal leg., 1 ♀ (in coll. Roubal, SNMB).

Other central European records. Hungary, Kalocza and Plattensee (Balaton Lake), V. Machulka leg., 1935 (Horion 1949).

Distribution. Southern Hungary, Dalmatia, Herzegovina, Mazedonia, Bulgaria, Italy, Greece.

DISCUSSION

Specimens of both species have been for the first time recorded from central Europe by Horion (1949), and *Tychus pullus* Kiesenwetter, 1858 also by Roubal (1941) from Slovakia, Depta (1948) repeated the latter record. Since as time as I am aware these species have not been found in central Europe and they are not included in the key of central European beetles (Besuchet 1973). Thus finding of *Tychus dalmatinus dalmatinus* Reitter, 1880 in Slovakia is interesting and extends the known range. The presence of *T. pullus* in central Europe would need confirmation by more recent findings.

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REFERENCES

- BESUCHET C. 1969: Psélaphides paléarctiques. Espèces nouvelles et notes synonymique. III (Coleoptera). *Rev. Suisse Zool.*, 76: 397-420.
- BESUCHET C. 1973: Pselaphidae, pp. 305-362. In: FREUDE H., HARDE K.W., LOHSE G.A. (eds.): *Die Käfer Mitteleuropas, Band 5*. Goecke & Evers, Krefeld, 381 pp.
- DEPTA V. 1948: (Pselaphidae et Scydmaenidae (Coleoptera) des environs de Bratislava). *Prirodoved. Zborn.*, 3: 3-11 (in Slovak, French abstr.).
- GANGLBAUER L. 1895: *Die Käfer von Mitteleuropa. Die Käfer der Österreichisch-ungarischen Monarchie, Deutschlands, der Schweiz, sowie des französischen und italienischen Alpengebietes. 2. Familienreihe Staphyloidea. 1. Teil: Staphylinidae, Pselaphidae*. C. Gerolds Sohn, Wien, vi+881 pp.
- HORION A. 1949: *Faunistik der mitteleuropäischen Käfer, Palpicornia - Staphyloidea (Ausser Staphylinidae), Band II*. V. Klostermann, Frankfurt am Main, 388 pp.
- KARAMAN Z. 1955: Revision des Tribus Tychiini mit besonderen Berücksichtigung der balkanischen Arten. *Acta Mus. Maced. Sci. Natur.*, 3: 105-144.
- KIESENWETTER H. von 1858: Fam. Pselaphidae Herbst, pp. 46-49. In: KRAATZ G. Beitrag zur Käferfauna Griechenlands, Zweites Stuck: Palpicornia, Silphales, Scydmaenidae, Pselaphidae, Staphylinidae. *Berlin. Entomol. Zeitschr.*, 2: 37-67
- REITTER E. 1880: Coleopterologische Ergebnisse einer Reise nach Croatia, Dalmatien und der Herzegowina. *Verh. Zool. Bot. Ges.*, 30: 201-228.
- ROUBAL J. 1930: Katalog Coleopter Slovenska a Podkarpatské Rusi. Díl. 1. Práce Učené společnosti Šafaříkovy v Bratislavě, Praha, 527 pp. (in Czech).
- ROUBAL J. 1941: Katalog Coleopter Slovenska a východních Karpat. Část 3. Orbis, Praha, 363 pp. (in Czech).
- ROUS R. 1993: Pselaphidae, pp 62-64. In: JELÍNEK J. (ed.): Check-list of Czechoslovak insects IV. (Coleoptera). Seznam československých brouků. *Folia Heyrovskyana, Suppl.* 1: 3-172 (in English and Czech).

SÚHRN

Podľa posledného zoznamu československých Pselaphidov (Rous 1993) sa pre územie Slovenska uvádza len 1 druh rodu *Tychus* Leach, 1817, a to *Tychus niger* Paykull, 1789. V článku uvádzam pre Slovensko nový druh *Tychus dalmatinus dalmatinus* Reitter 1880. Druh *Tychus pullus* Kiesenwetter, 1858 bol pre Slovensko hlásený Roubalom (1941) pod menom *Tychus hirtulus* Reitter, 1880. Pre strednú Európu boli obidva druhy hlásené Horionom (1949), ale neboli zahrnuté do kľúča stredoeurópskej fauny Pselaphidae (Besuchet 1973). Slovenský exemplár *Tychus dalmatinus dalmatinus* Reitter, 1880 po porovnaní s 2 exemplármi z Chorvátska a Bulharska vykazuje isté morfológické rozdiely najmä vo veľkosti a stavbe edeágu. Vyriešenie otázky, či sa jedná o nový stredoeurópsky taxón, bude však vyžadovať bohatší materiál.