

**ON THE DISTRIBUTION OF *MICRONECTA CARPATICA*
WRÓBLEWSKI, 1958 (HETEROPTERA: CORIXIDAE)**

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ABSTRACT: The first record of *Micronecta carpatica* Wróblewski, 1958 from Serbia and its additional record from Bulgaria are presented. The distribution and biology of the species are reviewed, and the distribution is figured.

KEY WORDS: Heteroptera, Corixidae, *Micronecta*, Serbia, Bulgaria, Balkan Peninsula, faunistics

Micronecta carpatica Wróblewski, 1958 is one of the least known European boatmen of the genus *Micronecta* Kirkaldy, 1897. It is most similar to *M. griseola* Horváth, 1899, from which it is distinguished especially by the different shape of parameres. It can be easily identified using the keys of WRÓBLEWSKI (1958, 1980), JACZEWSKI & WRÓBLEWSKI (1978), and JANSSON (1986).

MATERIAL EXAMINED: **Serbia** occ., Bioska, 4.VII.1984, eight males six females (all brachypterous), O. Kubík leg., P. Kment det. (coll. O. Kubík, deposited in the Regional Museum of Kolín, Czech Republic). **Bulgaria** mer. or., Strandzha Pl., Fakijska Reka River, 29.VII.1962, 79 males 63 females (all brachypterous), nine larvae, L. Hoberlandthgt and det. 1984 as *M. pusilla*, P. Kment revid. (coll. National Museum, Praha and Moravian Museum, Brno, Czech Republic).

Micronecta carpatica was described from the Wisłoka stream and its tributaries between Krępna and Jasło in southeastern Poland (WRÓBLEWSKI, 1958). WRÓBLEWSKI (1980) summarized the distribution in Poland as follows – Wisłoka stream and its several tributaries above Jasło, Jasiołka stream in the environs of Dukla, and Wisłok stream above Besko. WRÓBLEWSKI (1960) added a few additional localities from neighboring Slovakia (Bardejov: Kamenec streamlet; Svidník: Ondava stream, Lodomirka stream, and its tributary). JANSSON (1986) published the first record outside the Carpathians: „Greece, Mount Athos, Pantokiatoros, 1-2.VI.1959, Em Janssens“. He also supposed that „further finds would be expected, e.g. from the mountainous areas of Yugoslavia“.

Fig. 1. Distribution of the *Micronecta carpatica* Wróblewski, 1958 (black points). 1 – Wisłoka and Jasiołka streams (Poland), 2 – Wisłok stream above Besko (Poland), 3 – Bardejov: Kamenec streamlet (Slovakia), 4 – Svidník: Ondava and Lodomirka streams (Slovakia), 5 – Mount Athos (Greece), 6 – Ribino env. (Bulgaria), 7 – Strandzha Mts.: Fakijska Reka (Bulgaria), 8 – Bioska (Serbia)



JANSSON (1995) only repeated the previous records from Poland, Slovakia, and Greece in the catalogue of Palaearctic Heteroptera. No additional record from the Balkan Peninsula was published till SIMOV & JOSIFOV (2004), who reported *M. carpatica* from southern Bulgaria (Eastern Rhodope Mts., Ribino env., a karst spring in the Talashman Dere Protected Site, 450 m a.s.l., 18.VI.2000). Here present its additional record from south eastern Bulgaria (Strandzha Mts.) and the first record from Serbia. However, this species could also be expected in other Carpathian and Balkan countries.

WRÓBLEWSKI (1958) described the sites of *M. carpatica* as follows: „The Wisłoka is from Jasło upstream a typical mountain stream, with a stony or rocky bottom, a rapid current, and clear water. Its breadth is at Jasło about 20 m, depth 0.5-1 m. Here and there the stony holms separate from the current more or less long bays with calm, warmer water. Such recesses and other niches at the back of big stones and rocks, in brief places where the current slackens or the water is almost stagnant, are most often inhabited by *M. carpatica* sp. n.“ It was usually found syntopically with *M. poweri* (Douglas and Scott, 1869) and sometimes with *M. griseola* too (WRÓBLEWSKI, 1958). WRÓBLEWSKI (1958) also stressed its high oxygen demand and its apparent sensitivity to water pollution. *Micronecta carpatica* has one or two generations per year (depending on altitude) and overwinters in the larval stage (usually in the fourth instar) (WRÓBLEWSKI 1958, 1980). The Slovak localities correspond with the characteristics given previously for the Polish localities – mountain streams and streamlets with well oxygenated water (WRÓBLEWSKI, 1960). SIMOV and JOSIFOV (2004) reported it from a karst spring.

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**РАСПРОСТРАЊЕНОСТ *MICRONECTA CARPATICA*
WRÓBLEWSKI, 1958 (HETEROPTERA: CORIXIDAE)**

ПЕТР КМЕНТ

Ентомолошко одељење, Народног музеја, Кунратице 1, CZ-148 00 Праг 4 и Зоолошко одељење Чарсовог Универзитета, Винична 7, CZ-128 44 Праг 2, Република Чешка

Објављен је први налаз *Micronecta carpatica* Wryblewski, 1958 (Heteroptera: Corixidae) за Србију. На локалитету Биоска, 4. vii.1984. Кубик је уловио 8 мужјака и 6 женки (сви примерци су брахицерни). На Балканском полуострву ова врста нађена је још у Бугарској и Грчкој (Карта 1). Распрострањена је у планинским потоцима и изворима.

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