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Rediscovery of *Ilybius samokovi* in Bulgaria and a first record of *Ilybius pseudoneglectus* from Romania

Znovuobjevení potápníka *Ilybius samokovi* v Bulharsku a první nález *Ilybius pseudoneglectus* pro Rumunsko

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Abstract. The rediscovery of *Ilybius samokovi* (Fery et Nilsson, 1993) in the Rila Mts. in Bulgaria is reported. The female is briefly described and illustrated. Details about the habitat are provided. *Ilybius pseudoneglectus* (Franciscolo, 1972) is reported from Romania for the first time.

INTRODUCTION

Taxonomic revision of the *Agabus chalconatus* and *erichsoni* species groups was published by Fery & Nilsson (1993). Subsequently, Nilsson (2000) transferred all species of both species groups to the genus *Ilybius* Erichson, 1832. In total, 19 species of *I. chalconatus* species group were recognized. Many of them, including *Ilybius samokovi*, restricted to mountain ranges in the West Palaearctic region.

Ilybius samokovi was described by Nilsson & Fery (1993) and its description was based on a single male specimen collected near Samokov, north of the Rila mountain range in Bulgaria, on 19.vi.1911. It has not been collected again and no additional specimens have been discovered in private and institutional collections. During a trip to the mountains in southern Bulgaria in June 2007, I managed to find several specimens of *Ilybius samokovi*. Here, I report the rediscovery of this enigmatic species, describe the female genitalia and provide additional morphometric measurements based on a larger sample.

Moreover, I have received a male specimen of *I. pseudoneglectus* collected by M. Boukal in Bihor Mts. in Romania. This record extends its distribution in the northeastern direction (Hájek & Csabai 2009).

MATERIAL AND METHODS

The following codes and abbreviations are used in the text:

CHF	– Collection Hans Fery, Berlin, Germany (property of Vienna Natural History Museum, Austria)
CLH	– Collection Lars Hendrich, Berlin, Germany (property of Vienna Natural History Museum, Austria)
CJS	– coll. Jaroslav Šťastný, Liberec, Czech Republic
NMPC	– Národní muzeum, Praha, Czech Republic (Jiří Hájek)
TL	= total length
TLwH	= total length without head
MW	= maximum width, measured across the widest point of elytra

WC/WS = ratio of width of metacoxa (WC, measured along the extension of metasternal line) to maximum width of metasternum (WS, measured at the point of closest approximation of metacoxa to mesocoxal cavity) (Larson 1975).

Female genitalia were studied and illustrated in temporary glycerine mounts using a Leica transmitted light microscope at magnifications up 40 ×; they were subsequently washed in distilled water and mounted in DMHF on the same card as the beetle.

Ilybius samokovi (Fery et Nilsson, 1993)

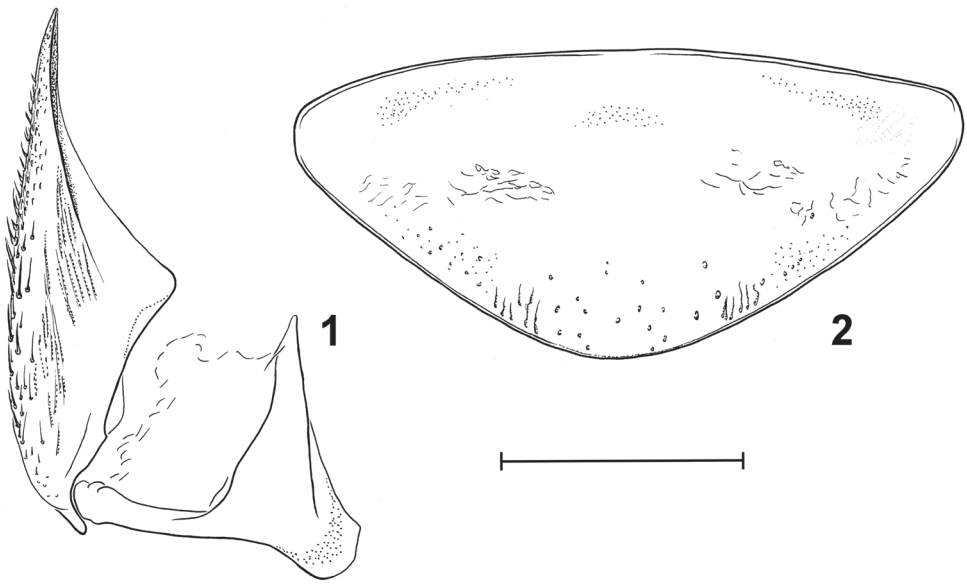
(Figs. 1, 2)

Material examined. 6 ♂♂, 5 ♀♀, Bulgaria, Rila Mts., Trestenik env. 42°05'N 23°36'E, 2020 m a.s.l., 20.vi.2007, J. Šťastný lgt. (deposited in CHF, CLH, CJS, NMPC).

Measurements. (n = 7) TL = 7.8-9.4 mm (8.4±0.28 mm),TLwH = 7.3-8.6 mm (7. 6±0.36 mm) (holotype: TL = 8.1 mm), MW = 4.1-5.1 mm (4.6±0.21 mm) (holotype: MW = 4.7 mm), TL/MW = 1.79-1.94 (1.85±0.04) (holotype: TL/MW = 1.74), WC/WS = 2.14-2.17 (2.20±0.07) (holotype: WC/WS = 2.42). The data of holotype are adopted from original description; see Fery & Nilsson (1993).

Description of the female. Generally similar to the male. Gonocoxa as in Fig. 1, relatively robust, apically pointed (obtuse in other members of the species group). Ventrite 6 as in Fig. 2, with short and weak sublateral rugae, posteriorly sparse punctate.

Distribution. So far, the species has been known only from the type locality. It is possible that some of the records of *I. chalconatus* from south-western Bulgaria (Guéorguiev 1964, 1965, 1987) refer to *I. samokovi*.



Figs 1–2. *Ilybius samokovi* Nilsson et Fery, female: 1 – gonocoxa and tergite; 2 – ventrite 6, ventral view. Scale bar 0.5 mm (1) and 0.8 mm (2), respectively.

Obr. 1–2. *Ilybius samokovi* Nilsson et Fery, samice: 1 – gonocoxa a tergit; 2 – ventrit 6. Měřítko 0,5 mm (1) a 0,8 mm (2).

Habitat. All specimens were collected in large plateau, slightly disturbed by mining of morainal gravels. The beetles were found in old shallow oligotrophic sandpits densely vegetated by *Sphagnum* sp.

Ilybius pseudoneglectus (Franciscolo, 1972)

Material examined. 1 ♂; Romania bor. occ., Munți Bihor, Groapa de la Barsa near Pestera Focul Viu, Taul Negru lake, 30.vii.1996, M. Boukal lgt. et det. [as *Agabus pseudoneglectus*], J. Šťastný revid. (CJS).
Habitat. Several specimens (M. Boukal, pers. com.) were collected in a small and deep, shaded mountain lake. The lake had a narrow littoral zone sparsely vegetated by *Carex* sp., very steep banks and muddy bottom.
Distribution. The first record from Romania. The species has been known from Bulgaria, Hungaria, Croatia, Montenegro, Greece, Italy (Hájek & Csabai 2009).

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SOUHRN

Potápník *Ilybius samokovi* (Fery & Nilsson 1993) byl znovu objeven v pohoří Rila v Bulharsku. Do současnosti byl znám pouze z holotypu. V práci je stručně popsána samice a jsou doplněny morfometrické údaje, získané měřením sedmi dalších jedinců. Potápník byl nalezen v nadmořské výšce 2020 m, kde žil v mělkých, oligotrofních nádržích, zarostlých rašeliníkem.

Blízce příbuzný druh *Ilybius pseudoneglectus* (Franciscolo, 1972) je poprvé uveden z území Rumunska.