

First faunistic records of chironomids (Diptera, Chironomidae) from Slovakia

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During the study of the macroinvertebrate fauna of the Hron River and man-made reservoirs in the Banská Štiavnica mine region (C Slovakia), chironomids were collected as pupal exuviae. Seven species of these were recorded in Slovakia for the first time. Material was sampled from the water surface along the river and lake banks with a 200 µm mesh net attached to a 1.5 m long pole. Exuviae were mounted in Berlese fluid on slides and identified by the author, using the key by LANGTON (1991) and LANGTON & VISSER (2003). Material is deposited in the working place of the author.

The last check-list of Slovak Chironomidae consisted of 351 valid species (BITUŠÍK, 2004). Meanwhile, information about nine species new to Slovakia have been published (HAMERLÍK, 2005). The updated chironomid list currently comprises 367 species after inclusion of the species mentioned below.

Arctopelopia barbitarsis (Zetterstedt, 1850)

Material examined: S Slovakia, Hron River, Kalná n. Hronom (48°12'04" N, 18°31'23" E), 157 m a.s.l., 3.VII.2003, 5 pupal exuviae, leg. P. Bitušík; S Slovakia, Hron River, Bňa (47°55'15" N, 18°38'45" E), 3.VII.2003, 117 m a.s.l., 4 pupal exuviae, leg. P. Bitušík.

Remarks: Material was collected from the lowland section of the river.

Distribution: Europe and Near East (SÆTHER & SPIES, 2004).

Thienemannimyia pseudocarnea Murray, 1976

Material examined: S Slovakia, Hron River, Jur n. Hronom (48°07'47" N, 18°36'41" E), 142 m a.s.l., 30.V.2003, 1 pupal exuvium, leg. P. Bitušík.

Remarks: Pupal exuvium was found in the lowland section of the river.

Distribution: Species is known from Europe (SÆTHER & SPIES, 2004).

Psectrocladius (Psectrocladius) brehmi Kieffer, 1923

Material examined: C Slovakia, Štiavnické vrchy Mts, Červená studňa reservoir (48°28'08" N, 18°53'06" E), 787 m a.s.l., 31.V.2004, 1 pupal exuvium, leg. M. Čerňanská.

Remarks: Pupal exuvium was collected from small, shallow reservoir overgrown with macrophytes.

Distribution: Europe and North Africa (SÆTHER & SPIES, 2004).

Stictochironomus pictulus (Meigen, 1830)

Material examined: C Slovakia, Štiavnické vrchy Mts, Ottergrundská nádrž reservoir (48°27'41" N, 18°52'51" E), 801 m a.s.l., 31.V.2004, 3 pupal exuviae, leg. M. Čerňanská.

Remarks: Material was found in small, shallow reservoir.

Distribution: Holarctic distribution pattern (SÆTHER & SPIES, 2004).

Cladotanytarsus vanderwulpi (Edwards, 1929)

Material examined: S Slovakia, Hron River, Kalná n. Hronom (48°12'04" N, 18°31'23" E), 157 m a.s.l., 3.VII.2003, 1 pupal exuvium, leg. P. Bitušík; S Slovakia, Hron River, Jur n. Hronom (48°07'47" N, 18°36'41" E), 142 m a.s.l., 30.V.2003, 1 pupal exuvium, leg. P. Bitušík.

Remarks: Material was collected from the lowland section of the river.

Distribution: Palaearctic species (SÆTHER & SPIES, 2004).

Paratanytarsus grimmii (Schneider, 1885)

Material examined: C Slovakia, Štiavnické vrchy Mts, Krechsengrundská nádrž reservoir (48°25'39" N, 18°50'53" E), 740 m a.s.l., 31.V.2004, 1 pupal exuvium, leg. K. Buchláková.

Remarks: Species was found in small, shallow reservoir overgrown with macrophytes.

Distribution: worldwide: Holarctic, Australian and Neotropical regions (SÆTHER & SPIES, 2004).

Tanytarsus sylvaticus (van der Wulp, 1859)

Material examined: C Slovakia, Štiavnické vrchy Mts, Velká Richňava reservoir (48°25'39" N, 18°50'53" E), 725 m a.s.l., 31.V.2004, 1 pupal exuvium; Malá Richňava reservoir (48°25'46" N, 18°50'45" E), 725 m a.s.l., 26.IV.2004, 3 pupal exuviae, leg. K. Buchláková.

Remarks: Pupal exuviae were collected both in deep, dimictic and shallow reservoirs Distribution: widely distributed in Europe (SÆTHER & SPIES, 2004).

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References

- BITUŠÍK, P. 2004. Updated check list of non-biting midges (Chironomidae: Diptera, Nematocera) of the Czech and Slovak Republics. *Dipterologica Bohemoslovaca* 12, Acta Fac. Ecol. 12, Suppl. 1: 149–154.
- HAMERLÍK, L. 2005. Three new records of chironomids (Diptera, Chironomidae) from Slovakia. *Biologia, Bratislava* 60: 566.
- LANGTON, P.H. 1991. A key to pupal exuviae of West Palaearctic Chironomidae. Privately published by P.H. Langton, 3 St. Felix Road, Ramsay Forty Foot, Cambridgeshire, England, PE 17 1YH, 386 pp.
- LANGTON, P.H. & VISSER, H. 2003. Chironomidae exuviae. A key to pupal exuviae of the West Palaearctic Region. Interactive Identification System for the European Limnofauna (IISSEL), World Biodiversity Database, CD-ROM Series.
- SÆTHER, O.A. & SPIES, M. 2004. Fauna Europaea: Chironomidae. In: DE JONG, M. (ed.) Fauna Europaea: Diptera: Nematocera, Fauna Europaea version 1.1, <http://www.faunaeur.org>

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