

NON-BITING MIDGE SPECIES (DIPTERA: CHIRONOMIDAE) NEW AND RARE FOR THE LITHUANIAN FAUNA*ARNOLD MÓRA*¹, *TIBOR KOVÁCS*²

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Introduction

The latest checklist of Lithuanian Diptera contains 152 Chironomidae species (Pakalniškis *et al.*, 2006). More recently some publications have given new records to chironomid fauna and distribution of chironomid species of Lithuania (e.g. Kovács *et al.*, 2008; Pliūraitė, 2007; Ruginis, 2007). On the basis of the geographical and biogeographical situation of the country, many more species are expected to occur in the territory of Lithuania. In 2008, some chironomid specimens were collected during a faunistical investigation (see Kovács *et al.*, 2008). As a result of their identification, 4 species proved to be new for the Lithuanian fauna and data on two rare species is also given.

Material and Methods

Adult chironomids were captured by manual sampling, while larvae were collected by water netting. The following works were used for the identification of the material: Cranston (1982); Cranston *et al.* (1983); Fittkau & Roback (1983); Hirvenoja (1973); Janecek (1998); Langton & Pinder (2007); Pinder & Reiss (1983); Sæther *et al.* (2000); Vallenduuk & Moller Pillot (2007). The nomenclature follows Sæther & Spies (2004). The specimens are housed in the collection of the Mátra Museum, Hungary.

Species new for the Lithuanian fauna are marked with an asterisk (*).

List of localities

Švenčionys district	Baliuliai, the Mera river	54°59'06"N, 25°54'40"E
Švenčionys district	Laukiai, the Saria river	55°02'53"N, 26°01'08"E
Švenčionys district	Ziboliškė, the Mera river	55°02'01"N, 26°05'45"E
Varėna district	Trasninkas, mouth of the Skroblus river to Merkys	54°06'27"N, 24°16'38"E
Vilnius district	Buivydžiai I, Paliepė, the Neris river	54°51'54"N, 25°44'43"E
Vilnius district	Nemenčinė, the Neris river	54°50'29"N, 25°28'22"E

Abbreviations in the list: ♂ = adult male, L = larvae, A. A. = András Ambrus, K. T. = Tibor Kovács, M. G. = Gábor Magos, N. H. = Hajnalka Nagypál, O. P. = Péter Olajos, Sz. G. = Gábor Szilágyi.

List of species

* *Apsectrotanypus trifascipennis* (Zetterstedt, 1838)

Ziboliškė, the Mera river, 29 04 2008, 1L (K.T., M.G., Sz.G.).

This species occurs widely throughout Europe. It is easily distinguishable from other larval Tanypodinae by morphological characters.

Cricotopus (Cricotopus) flavocinctus (Kieffer, 1924)

Nemenčinė, Neris, 04 07 2008, 1L (A. A., K. T., N. H., O.P.).

* *Eurycnemus crassipes* (Meigen, 1810)

Buivydziai I, Paliepė, the Neris river, 03 07 2008, 1♂ (A.A., K.T., N.H., O.P.).

In Europe it is the only species of this genus. The bifid hypopygium of this species is highly characteristic.

Polypedilum (Uresipedilum) convictum (Walker, 1856)

Baliuliai, Mera, 29 04 2008, 1L (K.T.-M.G.-Sz.G.).

* *Rheotanytarsus muscicola* Thienemann, 1929

Trasninkas, mouth of the Skroblus river, 03 07 2008, 1♂ (A.A., K.T., N.H., O.P.)

Widespread species in Europe. This is the first representative of the genus in Lithuania.

* *Tvetenia verralli* (Edwards, 1929)

Laukiai, the Saria river, 29 04 2008, 2L (K.T., M.G., Sz.G.).

It is recorded from many countries of Europe. This species is the first member of the genus in Lithuania.

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References

- Cranston P. S. 1982. A key to the larvae of the British Orthoclaadiinae (Chironomidae). *Freshwater Biological Association Scientific Publication* 45, 152 pp.
- Cranston P. S., Oliver D. R., Sæther O. A. 1983. 9. The larvae of Orthoclaadiinae (Diptera: Chironomidae) of the Holarctic region - keys and diagnoses. *Entomologica scandinavica Supplement* 19: 149–291.
- Fittkau E. J., Roback S. S. 1983. 5. The larvae of Tanypodinae (Diptera: Chironomidae) of the Holarctic region - keys and diagnoses. *Entomologica scandinavica Supplement* 19: 33–110.
- Hirvenoja M. 1973. Revision der Gattung *Cricotopus* van der Wulp und ihrer Verwandten (Diptera, Chironomidae). *Annales zoologici fennici* 10: 1–363.
- Janecek B. F. R. 1998. Diptera: Chironomidae (Zuckmücken). Bestimmung von 4. Larvenstadien mitteleuropäischer Gattungen und österreichischer Arten. In: *Fauna*

- Aquatica Austriaca* V. Kursmaterial, Universität für Bodenkultur, Abteilung Hydrobiologie, Wien, 116 pp. + 16 pp. Appendix
- Kovács T., Ambrus A., Juhász P., Olajos P., Szilágyi G. 2008. Records of Ephemeroptera and Plecoptera from Lithuania, with notes on aquatic arthropods. *Folia Historico-Naturalia Musei Matraensis* 32: 119–134.
- Langton P. H., Pinder L. C. V. 2007. Keys to the adult male Chironomidae of Britain and Ireland Volume 1–2. *Freshwater Biological Association Scientific Publication* 64, 239 pp. + 168 pp.
- Pakalniškis S., Bernotienė R., Lutovinovas E., Petrašiūnas A., Podėnas S., Rimšaitė J., Sæther O.A., Spungis V. 2006. Checklist of Lithuanian Diptera. *New and Rare for Lithuania Insect Species* 18: 16–150.
- Pinder L. C. V., Reiss F. 1983. 10. The larvae of Chironominae (Diptera: Chironomidae) of the Holarctic region - keys and diagnoses. *Entomologica scandinavica Supplement* 19: 293–435.
- Pliūraitė V. 2007. Seasonal dynamics of macroinvertebrates in the Vilnia River (Lithuania). *Acta Zoologica Lituanica* 17 (4): 299–312.
- Ruginis T. 2007. Environmental impacts on macroinvertebrate community in the Babrungas River, Lithuania. *Ekologija* 53 (3): 51–57.
- Sæther O. A., Ashe P., Murray D. A. 2000. A.6. Family Chironomidae. In Papp L., Darvas B. (eds). *Contribution to a manual of Palaearctic Diptera. Appendix*. Science Herald, Budapest, pp. 113–334.
- Sæther O. A., Spies M. 2004. Fauna Europaea: Chironomidae. In de Jong H. (ed). *Fauna Europaea: Diptera, Nematocera*. Fauna Europaea version 1.3. Available from <http://www.faunaeur.org> (Accessed November 21, 2008)
- Vallenduuk H. J., Moller Pillot H. K. M. 2007. *Chironomidae larvae. General ecology and Tanyptodinae*. KNNV Publishing, Zeist, The Netherlands, 144 pp.

Naujos ir retos Lietuvos faunos uodų trūklių (Diptera: Chironomidae) rūšys

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Santrauka

Pateikiami duomenys apie keturias naujas (*Apsectrotanytus trifascipennis* (Zetterstedt, 1838), *Eurycnemus crassipes* (Meigen, 1810), *Tvetenia verralli* (Edwards, 1929), *Rheotanytarsus muscicola* Thienemann, 1929) ir dvi retas (*Cricotopus flavocinctus* (Kieffer, 1924), *Polypedilum convictum* (Walker, 1856)) Lietuvos faunos uodų trūklių rūšis, aptiktas 2008 metais Švenčionių, Varėnos ir Vilniaus rajonuose. *Tvetenia verralli* ir *Rheotanytarsus muscicola* yra pirmieji šių genčių atstovai aptikti Lietuvoje.

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