

- MEYER, M. K. P. & RYKE, P. A. J. 1960. Mites of the superfamily Raphignathoidea (Acarina: Prostigmata) associated with South African plants. *Ann. Mag. Natur. Hist.* **13**: 209–234.
- MEYER, M. K. P. (SMITH) & UECKERMANN, E. A. 1984. The family Eupalopsellidae (Acari: Prostigmata) with descriptions of new species from South Africa. *Phytophylactica* **16**: 121–142.
- MEYER, M. K. P. (SMITH) & UECKERMANN, E. A. 1989. African Raphignathoidea (Acari: Prostigmata). *Entomol. Mem. Dept. Agric. Water Sup., R.S.A.* **74**: 1–58.
- RAKHA, M. A. & MCCOY, C. W. 1985. Eupalopsellid mites on Florida citrus, with a description of *Exothorhis caudata* Summers development stages (Eupalopsellidae: Raphignathoidea). *Fla. Entomol.* **68**: 141–144.
- SELLNICK, M. 1949. Milben von der Küste Schwedens. *Entomol. Tidsk.* **70**: 123–135.
- STRANDMANN, R. W. & PRASSE, J. 1976. Prostigmatic mites from the experimental farm in Elzdorf/Saalkreis, GDR. *Abh. Ber. Naturkde. Mus. Forsch.-Stelle, Görlitz* **50**: 1–33.
- SUMMERS, F. M. 1960. *Eupalopsis* and eupalopsellid mites (Acarina: Stigmaeidae, Eupalopsellidae). *Fla. Entomol.* **43**: 119–138.
- VAN DIS, J. C. S & UECKERMANN, E. A. 1993. New species of the genera *Stigmaeus* Koch, *Eryngiopus* Summers and *Eupalopsellus* Sellnick (Acari: Stigmaeidae, Eupalopsellidae) from the Afrotropical region. *Phytophylactica*. **25**: 117–135.
- WILLMANN, C. 1952. Die Milbenfauna der Nordseeinsel Wangerooge. *Veröfftl. Inst. Meeresforsch., Bremerhaven* **1**: 139–186.
- ZAHER, M. A. & GOMAA, E. A. 1978. Incidence of eupalopsellid mites in Egypt, with description of two new species (Eupalopsellidae: Prostigmata). *Acarologia* **20**: 546–555.

Received March 13, 2004

Accepted April 29, 2004

Biologia, Bratislava, **59/5**: 545–546, 2004

FAUNISTICAL NOTES

Faunistic records of chironomids (Diptera, Chironomidae) from Slovakia

Peter BITUŠÍK

Department of Biology and General Ecology, Faculty of Ecology and Environmental Sciences, Technical University in Zvolen, Kolpašská 9, SK-96901 Banská Štiavnica, Slovakia; e-mail: bitusik@fee.tuzvo.sk

The last check-list of Chironomidae (BITUŠÍK & LOSOS, 1997) consisted of 327 valid species for the Slovak Republic. Since this time, some papers with information about the first chironomid records from Slovakia have been published (e.g. HAMERLÍK, 2002).

This paper references about five chironomid species firstly recorded from Slovakia. All specimens were collected from lakes of glacial origin in the West and High Tatra Mts. Pupal exuviae were sampled by skimming the water surface along the lake shore 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 (2002).

Material is deposited in the Dept. of Biology and

General Ecology, Faculty of Ecology and Environmental Sciences, Banská Štiavnica, Slovakia.

The list of Chironomidae of Slovakia currently consists of 345 species.

Diamesa laticauda Serra-Tosio, 1964

Material examined: N Slovakia, High Tatra Mts, Nefcerka valley (DFS 6886 – reference grid number of the Databank of Fauna of Slovakia), Nižné Terianske pleso lake, 1941 m a.s.l., 3.VIII.2001, 1 pupal exuvium, leg. P. Bitušík

Remarks: Distributed in alpine regions of Europe (LANGTON & VISSER, 2002).

Cricotopus (Cricotopus) pilosellus Brundin, 1956

Material examined: N Slovakia, West Tatra Mts, Jam-

nická dolina valley (DFS 6884), Nižné Jamnícke pleso lake, 1728 m a.s.l., 6.VII.2002, 1 pupal exuvium, leg. M. Hubková; N Slovakia, High Tatra Mts, Veľká Studená dolina valley (DFS 6886), Prostredné Zbojnicke pleso lake, 1969 m a.s.l., 16.VIII.2002, 8 pupal exuviae, Vyšné Zbojnicke pleso lake, 1972 m a.s.l., 15.VIII.2001, 4 pupal exuviae, leg. P. Kološta
Remarks: The species has a Holarctic distribution pattern (ASHE & CRANSTON, 1990).

Cricotopus (Isocladius) perniger (Zettstedt, 1850)
Material examined: N Slovakia, West Tatra Mts, Roháčska dolina valley (DFS 6784), Druhé Roháčske pleso lake, 1650 m a.s.l., 5.VII.2002, 14 pupal exuviae, Tretie Roháčske pleso lake, 1653 m a.s.l., 5.VII.2002, 6 pupal exuviae; Jamnícka dolina valley (DFS 6884), Nižné Jamnícke pleso lake, 1728 m a.s.l., 6.VII.2002, 17 pupal exuviae; Račkova dolina valley (DFS 6884), Vyšné Račkovo pleso lake, 1697 m a.s.l., 13.VII.2002, 5 pupal exuviae; Bystrá dolina valley (DFS 6885), Vyšné "menšie" Bystré pleso lake, 1837 m a.s.l., 27.VIII.2002, 1 pupal exuvium, leg. M. Hubková; N Slovakia, High Tatra Mts, Mengusovská dolina valley (DFS 6886), Veľké Hincovo pleso lake, 1946 m a.s.l., 14.VIII.2001, 7 pupal exuviae, Malé Hincovo pleso lake, 1923 m a.s.l., 17.VIII.2002, 7 pupal exuviae; Bielowodská dolina valley (DFS 6886), Vyšné Žabie Bielowodské pleso lake, 1699 m a.s.l., 16.VIII.2001, 2 pupal exuviae; Temnosmrečinská dolina valley (DFS 6886), Vyšné Temnosmrečinské pleso lake, 1716 m a.s.l., 19.VIII.2001, 1 pupal exuvium, Nižné Temnosmrečinské pleso lake, 1674 m a.s.l., 19.VIII.2001, 1 pupal exuvium, leg. P. Kološta
Remarks: Known from the Polish part of the High Tatras [HIRVENOJA (1973) refers to a information of G. Mothes in 1965]; distributed in Europe.

Hydrobaenus spinnatis Saether 1976

Material examined: N Slovakia, West Tatra Mts, Bystrá dolina valley (DFS 6885), Vyšné "menšie" Bystré pleso lake, 1837m a.s.l., 16.VI.2003, 1 pupal exuvium, leg. M. Hubková.
Remarks: Judging by the available data, a rare species, probably with Holarctic distribution, known from the French Alps (pond, 2000 m a.s.l) (LANGTON & VISSER, 2002) and Canada (ASHE & CRANSTON, 1990).

Psectrocladius (Mesopsectrocladius) barbatipes Kieffer, 1923

Material examined: N Slovakia, West Tatra Mts, Roháčska dolina valley (DFS 6784), Druhé Roháčske pleso lake, 1650 m. a.s.l., 5.VII.2002, 3 pupal exuviae, Tretie Roháčske pleso lake, 1653 m a.s.l., 27.VIII.2002, 5 pupal exuviae, Štvrté Roháčske pleso lake, 1718 m a.s.l., 27.VIII.2002, 3 pupal exuviae, leg. M. Hubková.
Remarks: Known from Europe and North Africa (LANGTON & VISSER, 2002).

Acknowledgements

The chironomid research in the Tatra Mts was supported by the EU Project EMERGE EVK1-CT1999-00032 (Europaean Lake Ecosystems: Regionalisation, Diagnostics & Socio-economic Evaluation). I wish to thank D. HARDEKOPF for linguistic correction of the manuscript.

References

- ASHE, P. & CRANSTON, P. S. 1990. Chironomidae, pp. 113–355. In: SOÓS, A. & PAPP, L. (eds) Catalogue of Palaeartic Diptera, Vol. 2, Akadémiai Kiadó, Budapest.
- BITUŠÍK, P. & LOSOS, B. 1997. Chironomidae, pp. 34–39. In: CHVÁLA, M. (ed.) Check list of Diptera (Insecta) of Czech and Slovak Republics, Karolinum, Charles University Press.
- HAMERLIK, L. 2002. First record of *Labrundinia logipalpis* and *Polypedilum nubifer* (Diptera, Chironomidae) from Slovakia. *Biologia, Bratislava* **57**: 602.
- HIRVENOJA, M. 1973. Revision der Gattung *Cricotopus* van der Wulp und ihrer Verwandten (Diptera, Chironomidae). *Ann. Zool. Fenn.* **10**: 1–363.
- LANGTON, P. H. 1991. A key to pupal exuviae of West Palaeartic 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. 2002. Chironomidae exuviae. A key to pupal exuviae of the West Palaeartic Region. Interactive Identification System for the Europaean Limnofauna (IISEL), World Biodiversity Database, CD-ROM Series.

Received May 3, 2004

Accepted July 8, 2004