

Blephariceridae

Jean-Paul Haenni (1998 Checklist: Peter Zwick)

Last update: Jul 2024

Diagnosis: 3-15 mm long, delicate long-legged midges, characterised by wing membrane with a net-like pattern of folds. Mouthparts well developed in females, reduced in males; eyes often divided transversally. Larvae aquatic, cylindrical and flattened ventrally, 6-segmented, each segment bearing a ventral suctorial disc and gill tufts. Pupae aquatic, attached to the substratum, bearing paired respiratory organs.

Biology: Larvae are adapted for life in rapid flowing waters, in rapids and waterfalls of streams where they feed by grazing the periphyton (film of diatoms and other algae, bacteria and organic matter) on submerged rocks. Adults may be found in the vicinity of the biotopes where larvae develop; females are predatory on small insects.

Nomenclature and classification: According to Zwick (1992, 2013).

Number of species: CH: 5 (1998 Checklist: 5),
AT: 5, CZ: 6, DE: 7, PL: 6, SK: 6, Europe: 37, World: ~300.

Level of faunistic knowledge in Switzerland: Good. The present list is entirely based upon the one published in the previous checklist (Zwick 1998).

General references: Courtney (2000) [general, keys to genera], Nicolai (1983) [keys], Zwick (1980) [keys], Zwick (1992) [nomenclature, catalogue Palaearctic region], Zwick (2013) [Fauna Europaea database].

References to the Swiss fauna: Frutiger & Gammeter (1998) [faunistics], Frutiger & Jolidon (2000) [keys, larvae and pupae], Zwick (1998) [checklist].

Checklist

Blepharicera Macquart, 1843

- *fasciata* (Westwood, 1842) !

Hapalothrix Loew, 1876

- *lugubris* Loew, 1876 !

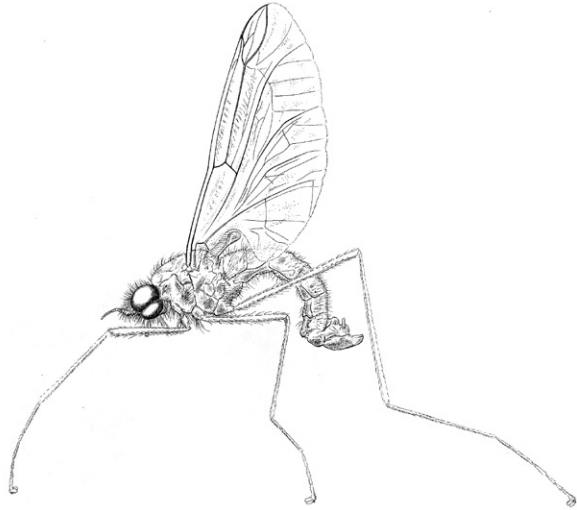
Liponeura Loew, 1844

- *cinerascens minor* Bischoff, 1922 !

- *cordata* Vimmer, 1916 !

- *decipiens* Bezzi, 1913 !

Hapalothrix lugubris,
male (CMPD A, p.7).



References

- Courtney G.W. 2000. A1. Family Blephariceridae. In: Papp L. & Darvas B. (eds). Contributions to a Manual of Palaearctic Diptera (with special reference to flies of economic importance). Appendix: 7-30. Science Herald, Budapest, 604 pp.
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- Frutiger A., & Jolidon C. 2000. Bestimmungsschlüssel für die Larven und Puppen der in der Schweiz, in Österreich und in Deutschland vorkommenden Netzflügelmidgen (Diptera: Blephariceridae), mit Hinweisen zu ihrer Verbreitung und Phänologie. Mitteilungen der Schweizerischen Entomologischen Gesellschaft 73(1-2): 93-108.
- Nicolai P. 1983. Blephariceridi (Diptera: Blephariceridae). In: Ruffo S. (ed). Guide per il riconoscimento delle specie animale delle acque interne italiane 25: 1-47.
- Zwick P. 1980. The net-winged midges of Italy and Corsica (Diptera: Blephariceridae). Aquatic Insects 2: 33-61.
- Zwick P. 1992. Family Blephariceridae. In: Soós Á. & Papp L. (eds). Catalogue of Palaearctic Diptera 1: 39-54. Akadémiai Kiadó, Budapest, 520 pp.
- Zwick P. 1998. 2. Blephariceridae. In: Merz B., Bächli G., Haenni J.-P. & Gonseth Y. (eds). Diptera - Checklist. Fauna Helvetica 1: 63. CSCF / SEG, Neuchâtel, 369 pp.
- Zwick P. 2013. Fauna Europaea: Blephariceridae. In: Beuk P. & Pape T. (eds). Fauna Europaea: Diptera Nematocera. Fauna Europaea version 2.6. <http://www.faunaeur.org/>.