

Checklist of the family Ephydriidae of Finland (Insecta, Diptera)

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Abstract

A checklist of 112 species of shore flies (Ephydriidae, Diptera) recorded from Finland is presented. Comparing this to the list of Hackman (1980), 52 changes are made: 25 species are added (all but one recorded after 1980), 18 misidentifications are deleted, 5 junior synonyms are replaced and 5 updated generic combinations are given.

Keywords

Checklist, Finland, Diptera, Ephydriidae

Introduction

Shore flies (Ephydriidae) are dark coloured, dull to shining, 1–6 mm long flies. Most species develop in aquatic or semi-aquatic conditions, feeding of algae, bacteria, yeasts or even decaying animal matter and excrements; or they are phytophagous and mining in leaves or stems. The group is divided into 5 subfamilies and 19 tribes (Zatwarnicki 1992), of which 15 could potentially be found in Finland.

Hackman (1980) originally listed 105 species. Zatwarnicki (1997) corrected the synonymy and generic placement of some species. Compared to Hackman (1980)

the present list adds 25 species and removes 18 misidentified species (mostly *Hydrellia*). Five junior synonyms in *Hydrellia*, *Philygria*, *Scatella* and *Scatophila* are replaced; four species of *Ditrichophora* are combined with *Gymnoclasiopa* and one species of *Lamproscatella* with *Haloscatella*. Two species are endemic for Finland: *Psilopa nitidifacies* Frey, 1930 (note that this was omitted by Hackman 1980), and *Gymnoclasiopa psilopina* (Frey, 1933).

Nomenclature follows the current version of the Ephydridae section of Fauna Europaea (Zatwarnicki 2013). The subfamilies and the tribes are ordered systematically; genera within tribes and species within genera are listed alphabetically.

Number of species:

World: 1927 species and 63 nomina dubia (as of February 2014)

Europe: 340 species and 3 subspecies (Zatwarnicki 2013)

Finland: 112 species

Faunistic knowledge level in Finland: average

Checklist

suborder Brachycera Macquart, 1834
 clade Eremoneura Lameere, 1906
 clade Cyclorrhapha Brauer, 1863
 infraorder Schizophora Becher, 1882
 clade Muscaria Enderlein, 1936
 parvorder Acalyptratae Macquart, 1835
 superfamily Ephydroidea Zetterstedt, 1837

EPHYDRIDAE Zetterstedt, 1837

DISCOMYZINAE Acloque, 1897

Discomyzini Acloque, 1897

DISCOMYZA Meigen, 1830

Discomyza incurva (Fallén, 1823)

Psilopini Cresson, 1925

PSILOPA Fallén, 1823

Psilopa compta (Meigen, 1830)

Psilopa leucostoma (Meigen, 1830)

Psilopa marginella Fallén, 1823

Psilopa nigritella Stenhammar, 1844

Psilopa nitidifacies Frey, 1958

Psilopa nitidula (Fallén, 1813)

Psilopa polita (Macquart, 1835)

TRIMERINA Macquart, 1835

Trimerina madizans (Fallén, 1813)

- Trimerina microchaeta* Hendel, 1932
 = *indistincta* Krivosheina 2004
- HYDRELLIINAE Robineau-Desvoidy, 1830
- Atissini Cresson, 1942
- ATISSA** Haliday, 1839
- Atissa limosina* Becker, 1896
- Atissa pygmaea* Haliday, 1839
- Hydrelliini Robineau-Desvoidy, 1830
- HYDRELLIA** Robineau-Desvoidy, 1830
- Hydrellia albifrons* Fallén, 1813
- Hydrellia albilabris* (Meigen, 1830)
- Hydrellia cardamines* Haliday, 1839
 = *baltica* Frey, 1930
- Hydrellia cochleariae* Haliday, 1839
 = *flavicornis* misid.
- Hydrellia flaviceps* (Meigen, 1830)
 = *discors* Collin, 1966
 = *lapponica* misid.
- Hydrellia fulviceps* (Stenhammar, 1844)
 = *chrysostoma* misid.
- Hydrellia fusca* (Stenhammar, 1844)
- Hydrellia griseola* (Fallén, 1813)
 = *chrysostoma* (Meigen, 1830)
- Hydrellia laticeps* (Stenhammar, 1844)
- Hydrellia mutata* (Zetterstedt, 1846)
- Hydrellia obscura* (Meigen, 1830)
 = *fascitibia* misid.
- Hydrellia pilitarsis* (Stenhammar, 1844)
- Hydrellia subalbiceps* Collin, 1966
- Hydrellia tarsata* Haliday, 1839
- Hydrellia thoracica* Haliday, 1839
 = *modesta* misid.
- Notiphilini Bigot, 1853
- DICHAETA** Meigen, 1830
- Dichaeta caudata* (Fallén, 1813)
 = *brevicauda* Loew, 1860
- NOTIPHILA** Fallén, 1810
- sg. Agrolimna** Cresson, 1917
- Notiphila uliginosa* Haliday, 1839
- sg. Notiphila** Fallén, 1810
- Notiphila annulipes* Stenhammar, 1844
- Notiphila aquatica* Becker, 1896
- Notiphila brunipes* (Robineau-Desvoidy, 1830)

= *brunnipes* emend.

Notiphila cinerea Fallén, 1813

Notiphila dorsata Stenhammar, 1844

Notiphila graecula Becker, 1926

= *maculata* misid.

Notiphila major Stenhammar, 1844

Notiphila pollinosa Krivosheina, 1998

Notiphila riparia Meigen, 1830

GYMNOMYZINAE Latreille, 1829

Gymnomyzini Latreille, 1829

ATHYROGLOSSA Loew, 1860

sg. *Athyroglossa* Loew, 1860

Athyroglossa glabra (Meigen, 1830)

MOSILLUS Latreille, 1804

Mosillus subsultans (Fabricius, 1794)

Lipochaetini Becker, 1896

GLENANTHE Haliday, 1839

Glenanthe fuscinervis Becker, 1896

= *ripicola* auct. nec Haliday, 1839

Hecamedini Mathis, 1991

ALLOTRICHOMA Becker, 1896

Allotrichoma bezzii Becker, 1896

= *laterale* misid.

Ochtherini Dahl, 1959

OCHTHERA Latreille, 1802

Ochthera manicata (Fabricius, 1794)

Ochthera mantis (De Geer, 1776)

Discocerinini Cresson, 1925

DISCOCERINA Macquart, 1835

Discocerina obscurella (Fallén, 1813)

DITRICHOPHORA Cresson, 1924

Ditrichophora calceata (Meigen, 1830)

Ditrichophora fuscilla (Stenhammar, 1844)

GYMNOCLASIOPA Hendel, 1930

Gymnoclasiopa aurivillii (Becker, 1896)

Gymnoclasiopa bohemanni (Becker, 1896)

Gymnoclasiopa cinerella (Stenhammar, 1844)

= *pulchella* misid.

Gymnoclasiopa nigerrima (Strobl, 1893)

Gymnoclasiopa psilopina (Frey, 1933)

HECAMEDOIDES Hendel, 1917

Hecamedoides glaucellus (Stenhammar, 1844)

- Hecamedoides unispinosus* (Collin, 1943)
POLYTRICHOPHORA Cresson, 1924
Polytrichophora duplosetosa (Becker, 1896)
 ILYTHEINAE Cresson, 1943
 Hyadinini Philips et al. in Cresson, 1949
AXYSTA Haliday, 1839
Axysta cesta (Haliday, 1833)
HYADINA Haliday, 1839
Hyadina guttata (Fallén, 1813)
Hyadina humeralis Becker, 1896
Hyadina rufipes (Meigen, 1830)
 = *nitida* (Macquart, 1835)
Hyadina scutellata (Haliday, 1839)
LYTOGASTER Becker, 1896
Lytogaster abdominalis (Stenhammar, 1844)
NOSTIMA Coquillett, 1900
Nostima picta (Fallén, 1813)
PELINA Haliday, 1839
Pelina aenea (Fallén, 1813)
Pelina aenescens (Stenhammar, 1844)
PHILYGRIA Stenhammar, 1844
Philygria femorata (Stenhammar, 1844)
 = *posticata* misid.
Philygria flavipes (Fallén, 1823)
Philygria interstincta (Fallén, 1813)
 = *maculipennis* (Robineau-Desvoidy, 1830)
 = *sexmaculata* Becker, 1896
Philygria obtecta Becker, 1896
Philygria vittipennis (Zetterstedt, 1838)
 = *nigricauda* Stenhammar, 1844
 = *trilineata* De Meijere, 1907
 Ilytheini Cresson, 1943
ILYTHEA Haliday, 1839
Ilythea spilota (Haliday in Curtis, 1832)
 EPHYDRINAE Zetterstedt, 1837
 Parydrini Wirth & Stone, 1956
EUTAENIONOTUM Oldenberg, 1923
Eutaenionotum guttipenne (Stenhammar, 1843)
PARYDRA Stenhammar, 1844
 = *Napaea* Robineau-Desvoidy, 1830 preocc.
sg. Chaetoapnaea Hendel, 1930
Parydra arctica Clausen, 1971

Parydra fossarum (Haliday, 1833)

Parydra mitis (Cresson, 1930)

Parydra nigritarsis Strobl, 1893

Parydra pusilla (Meigen, 1830)

Parydra quadripunctata (Meigen, 1830)

sg. *Parydra* Stenhammar, 1844

Parydra aquila (Fallén, 1813)

Parydra coarctata (Fallén, 1813)

Parydra nubecula (Becker, 1896)

Ephydrini Zetterstedt, 1837

CALOCOENIA Mathis, 1975

sg. *Leptocoenia* Mathis, 1975

Calocoenia paurosoma (Sturtevant & Wheeler, 1954)

COENIA Robineau-Desvoidy, 1830

Coenia curvicauda (Meigen, 1830)

Coenia palustris (Fallén, 1823)

Coenia vulgata Krivosheina, 2001

EPHYDRA Fallén, 1810

Ephydra macellaria Egger, 1862

Ephydra riparia Fallén, 1813

Ephydra scholtzi Becker, 1896

= *krogerusi* Frey, 1930

PARACOENIA Cresson, 1935

Paracoenia fumosa (Stenhammar, 1844)

SETACERA Cresson, 1930

Setacera aurata (Stenhammar, 1844)

Setacera micans (Haliday, 1833)

Scatellini Wirth & Stone, 1956

HALOSCATELLA Mathis, 1979

Haloscatella dichchaeta (Loew, 1860)

LAMPROSCATELLA Hendel, 1917

Lamproscatella sibilans (Haliday, 1833)

LIMNELLIA Malloch, 1925

Limnellia fallax (Czerny, 1903)

Limnellia quadrata (Fallén, 1813)

Limnellia stenhammari (Zetterstedt, 1846)

PHILOTELMA Becker, 1896

Philotelma defectum (Haliday, 1833)

Philotelma nigripenne (Meigen, 1930)

SCATELLA Robineau-Desvoidy, 1830

sg. *Neoscatella* Malloch, 1933

Scatella crassicauda Becker, 1896

- Scatella silacea* Loew, 1860
Scatella subguttata (Meigen, 1830)
sg. *Scatella* Robineau-Desvoidy, 1830
Scatella obsoleta Loew, 1861
 = *callosicosta* Bezzi, 1895
Scatella paludum (Meigen, 1830)
Scatella stagnalis (Fallén, 1813)
Scatella tenuicosta Collin, 1930
SCATOPHILA Becker, 1896
Scatophila caviceps (Stenhammar, 1844)
Scatophila contaminata (Stenhammar, 1844)
 = *halterata* Becker, 1896
Scatophila cribrata (Stenhammar, 1844)
Scatophila despecta (Haliday, 1839)
 = *hamifera* Becker, 1896
Scatophila iowana Wheeler, 1961
Scatophila mesogramma (Loew, 1869)
Scatophila noctula (Meigen, 1830)
 = *flavitaris* (Zetterstedt, 1846)
 = *laevigata* (Loew, 1860)
 = *silesiaca* Becker, 1896
Scatophila quadriguttata (Meigen, 1830)
 = *variegata* (Loew, 1860)

Excluded species

- Gymnoclasiopa aurifacies* (Strobl, 1893) misidentified
Gymnoclasiopa plumosa (Fallén, 1923) misidentified
Hyadina nigricornis Frey, 1930 not found within present borders
Hydrellia argyrogonis Becker, 1896 misidentified
Hydrellia concolor (Stenhammar, 1844) misidentified
Hydrellia flavicornis (Fallén, 1823) misidentified
Hydrellia incana (Stenhammar, 1844) misidentified
Hydrellia meigeni Zatwarnicki, 1988 misidentified
 = *albiceps* (Meigen, 1830) preocc.
Hydrellia nymphaeae (Stenhammar, 1844) misidentified
Hydrellia tibialis Cresson, 1917 not found within present borders
 = *diadema* Frey, 1930
Notiphila stagnicola (Robineau-Desvoidy, 1830) misidentified
Psilopa pulicaria (Haliday, 1839) misidentified
Scatella lutosa Haliday, 1833 misidentified

Notes

Gymnoclasiopa aurivillii (Becker, 1896) is probably a junior synonym of *Gymnoclasiopa nigerrima* (Strobl, 1893).

Hydrellia. At least two additional species occur in Finland but their proper names are still under investigation.

References

- Hackman W (1980) A check list of the Finnish Diptera II. Cyclorrhapha. Notulae entomologicae 60: 117–162.
- Zatwarnicki T (1992) A new classification of Ephydridae based on phylogenetic reconstruction (Diptera Cyclorrhapha). Genus 3(2): 65–119.
- Zatwarnicki T (1997) Diptera Ephydridae, Shore Flies. In: Nilsson A (Ed) The Aquatic Insects of North Europe, Vol 2. Apollo Books, Stenstrup, 383–399.
- Zatwarnicki T (2013) Family Ephydridae (Animalia: Eumetazoa: Arthropoda: Hexapoda: Insecta: Diptera: Brachycera). In: Pape T, Beuk P (Eds) Fauna Europaea: Diptera, version 2.6.2. <http://www.faunaeur.org>