

Checklist of the superfamilies Oestroidea and Hippoboscoidea of Finland (Insecta, Diptera)

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Abstract

An updated checklist of the superfamilies Oestroidea and Hippoboscoidea recorded from Finland is presented. The checklist covers the following families: Calliphoridae, Rhiniidae, Sarcophagidae, Rhinophoridae, Tachinidae, Oestridae and Hippoboscidae.

Keywords

Checklist, Finland, Diptera, Oestroidea, Hippoboscoidea

Introduction

Oestroidea is a large and diverse superfamily of flies with a variety of life history strategies ranging from saprophages to parasitoids or endoparasites, sometimes even within the family. Some groups, such as certain subfamilies of the Calliphoridae, have also significant veterinary, medical and economical impact. Oestroidea are regarded as monophyletic clade, however the same does not apply to the family of Calliphoridae within Oestroidea (Marinho et al. 2012). Besides Calliphoridae, Oestroidea currently includes

Table 1. Number of species by family.

Family	Number of species in			Level of knowledge
	World (Pape et al. 2011)	Europe	Finland	
Oestroidea:				
Calliphoridae	1525	102	45	good
Rhiniidae	376	12	0–1	good
Sarcophagidae	3094	309	64	average
Rhinophoridae	174	45	5	average
Tachinidae	9626	877	319	average
Oestridae	176	22	8	average
Hippoboscoidea:				
Hippoboscidae s. lat.	782	45	12	average

six other monophyletic families: Rhiniidae, Sarcophagidae, Rhinophoridae, Tachinidae, Oestridae and the non-finnish Mystacinobiidae. Additionally, the subfamilies of Oestridae (Oestrinae, Gasterophilinae) are sometimes treated as full families.

Hippoboscoidea contains the louse flies Hippoboscidae as well as the tropical Glossinidae or tsetse flies. Hippoboscidae is divided to the mammal or bird parasitic louse flies (Hippoboscinae) and batflies (Nycterbiinae, Streblinae). Although batflies have been treated as full families, they seem to be subordinate to the other Hippoboscidae (Kutty et al. 2010). The checklist will therefore follow the family division of Pape et al. 2011.

While world catalogues has been published for Sarcophagidae (Pape 1996) and Hippoboscidae (Dick 2006) only regional (Herting and Dely-Draskovits 1993) or genus-level (O’Hara 2012) catalogues exist for the other oestroid and hippoboscooid families. The Finnish species of Oestroidea and Hippoboscoidea were last listed by Hackman (1980). The sarcophagid checklist was updated by Pape (1987a,b) and the calliphorids by Rognes (1991). The updated checklists for Oestridae, Rhinophoridae and Tachinidae follow the taxonomic order of Pape (2001), Herting (1993) and Herting and Dely-Draskovits (1993), respectively.

Checklist part I: Oestroidea

suborder Brachycera Macquart, 1834
 clade Eremoneura Lameere, 1906
 clade Cyclorrhapha Brauer, 1863
 infraorder Schizophora Becher, 1882
 clade Muscaria Enderlein, 1936
 parvorder Calyptratae Robineau-Desvoidy, 1830
 superfamily Oestroidea Leach, 1815

CALLIPHORIDAE Brauer & Bergenstamm, 1889

CALLIPHORINAE Brauer & Bergenstamm, 1889

BELLARDIA Robineau-Desvoidy, 1863

= *Pseudonesia* Villeneuve, 1920

Bellardia bayeri (Jacentkovsky, 1937)

Bellardia pandia (Walker, 1849)

= *biseta* (Kramer, 1917)

Bellardia pubicornis (Zetterstedt, 1838)

= *puberula* (Zetterstedt, 1838)

Bellardia stricta (Villeneuve, 1926)

= *polita* auct. nec (Mik, 1883)

Bellardia viarum (Robineau-Desvoidy, 1830)

= *pusilla* (Meigen, 1826)

Bellardia vulgaris (Robineau-Desvoidy, 1830)

= *agilis* (Meigen, 1826) preocc.

CALLIPHORA Robineau-Desvoidy, 1830

= *Steringomyia* Pokorny, 1889

= *Acrophaga* Brauer & Bergenstamm, 1891

= *Abonesia* Villeneuve, 1927

= *Acronesia* Hall, 1948

Calliphora genarum (Zetterstedt, 1838)

= *alpina* (Zetterstedt, 1845)

Calliphora loewi Enderlein, 1903

Calliphora stelviana (Brauer & Bergenstamm, 1891)

Calliphora subalpina (Ringdahl, 1931)

Calliphora uralensis Villeneuve, 1922

Calliphora vicina Robineau-Desvoidy, 1830

= *erythrocephala* (Meigen, 1826) preocc.

Calliphora vomitoria (Linnaeus, 1758)

CYNOMYA Robineau-Desvoidy, 1830

Cynomya mortuorum (Linnaeus, 1761)

ONESIA Robineau-Desvoidy, 1830

Onesia floralis Robineau-Desvoidy, 1830

CHRYSOMYINAE Shannon, 1923

PROTOCOLLIPHORA Hough, 1899

Protocalliphora azurea (Fallén, 1817)

Protocalliphora nuortevai Grunin, 1972

Protocalliphora peusi Gregor & Povolny, 1959

Protocalliphora proxima Grunin, 1966

Protocalliphora rognesi Thompson & Pont, 1993

= *chrysorrhoea* Meigen, 1826 preocc.

PROTOPHORMIA Townsend, 1908

= *Boreellus* Aldrich & Schannon, 1923

Protophormia atriceps (Zetterstedt, 1845)

Protophormia terraenovae (Robineau-Desvoidy, 1830)

TRYPOCALLIPHORA Peus, 1960

Trypocalliphora braueri (Hendel, 1901)

= *lindneri* Peus, 1960

HELICOBOSCINAE Verves, 1980

EURYCHAETA Brauer & Bergenstamm, 1891

= *Helicobosca* Bezzi, 1906

Eurychaeta palpalis (Robineau-Desvoidy, 1830)

LUCILIINAE Shannon, 1923

LUCILIA Robineau-Desvoidy, 1830

Lucilia ampullacea Villeneuve, 1922

Lucilia bufonivora Moniez, 1876

Lucilia caesar (Linnaeus, 1758)

Lucilia illustris (Meigen, 1826)

Lucilia magnicornis (Siebke, 1863)

= *fuscipalpis* (Zetterstedt, 1845)

Lucilia richardsi Collin, 1926

Lucilia sericata (Meigen, 1826)

Lucilia silvarum (Meigen, 1826)

MELANOMYINAE Townsend, 1919

ANGIONEURA Brauer & Bergenstamm, 1893

Angioneura acerba (Meigen, 1838)

MELANOMYA Rondani, 1856

Melanomya nana (Meigen, 1826)

MELINDA Robineau-Desvoidy, 1830

Melinda gentilis Robineau-Desvoidy, 1830

= *coerulea* (Meigen, 1826) preocc.

= *cognata* (Meigen, 1830)

Melinda viridicyanea (Robineau-Desvoidy, 1830)

POLLENIINAE Brauer & Bergenstamm, 1889

MORINIA Robineau-Desvoidy, 1830

Morinia doronici (Scopoli, 1763)

= *melanoptera* (Fallén, 1817)

= *Angioneura fimbriata* misid.

POLLENIA Robineau-Desvoidy, 1830

Pollenia amentaria (Scopoli, 1763)

= *vespillo* auct. nec (Fabricius, 1794)

Pollenia angustigena Wainwright, 1940

Pollenia griseotomentosa (Jacentkowský, 1944)

Pollenia hungarica Rognes, 1987

Pollenia labialis Robineau-Desvoidy, 1863

= *excarinata* Wainwright, 1940

= *intermedia* misid.

Pollenia pediculata Macquart, 1834

Pollenia rudis (Fabricius, 1794)

= *varia* (Meigen, 1826)

Pollenia vagabunda (Meigen, 1826)

RHINIIDAE Brauer & Bergenstamm, 1889

STOMORHINA Rondani, 1861

Stomorbina lunata (Fabricius, 1805)

SARCOPHAGIDAE Macquart, 1834

MILTOGRAMMINAE Lioy, 1864

AMOBIA Robineau-Desvoidy, 1830

Amobia oculata (Zetterstedt, 1844)

= *signata* misid.

Amobia signata (Meigen, 1824)

HILARELLA Rondani, 1856

Hilarella hilarella (Zetterstedt, 1844)

MACRONYCHIA Rondani, 1859

= *Macronichia* orig. emend.

sg. Macronychia Rondani, 1859

Macronychia striginervis (Zetterstedt, 1838)

sg. Moschusa Robineau-Desvoidy, 1863

Macronychia agrestis (Fallén, 1820)

Macronychia griseola (Fallén, 1820)

Macronychia polyodon (Meigen, 1824)

METOPIA Meigen, 1803

Metopia argentata Macquart 1850

= *roserii* Rondani, 1859

= *stackelbergi* Rohdendorf, 1955

Metopia argyrocephala (Meigen, 1824)

= *leucocephala* (Rossi, 1790) preocc.

Metopia campestris (Fallén, 1810)

Metopia grandii Venturi, 1953

Metopia staegerii Rondani, 1859

= *rondaniana* Venturi, 1953

Metopia tshernovae Rohdendorf, 1955

MILTOGRAMMA Meigen, 1803

Miltogramma germari Meigen, 1824

Miltogramma iberica (Villeneuve, 1912)

Miltogramma oestracea (Fallén, 1820)

Miltogramma punctata Meigen, 1824

Miltogramma villeneuvei Verves, 1982

OEBALIA Robineau-Desvoidy, 1863

- Oebalia cylindrica* (Fallén, 1810)
Oebalia minuta (Fallén, 1810)
PHROSINELLA Robineau-Desvoidy, 1863
Phrosinella sannio (Zetterstedt, 1838)
 = *nasuta* misid.
PTERELLA Robineau-Desvoidy, 1830
Pterella grisea (Meigen, 1824)
SENOTAINIA Macquart, 1846
Senotainia albifrons (Rondani, 1859)
Senotainia conica (Fallén, 1810)
Senotainia puncticornis (Zetterstedt, 1859)
 = *imberbis* (Zetterstedt, 1838) preocc.
 = *crabronum* (Kramer, 1920)
TAXIGRAMMA Perris, 1852
Taxigramma elegantulum (Zetterstedt, 1844)
Taxigramma heteroneurum (Meigen, 1830)
 PARAMACRONYCHIINAE Brauer & Bergenstamm, 1889
AGRIA Robineau-Desvoidy, 1830
Agria affinis (Fallén, 1817)
 = *punctata* Robineau-Desvoidy, 1830
Agria mamillata (Pandellé, 1896)
ANGIOMETOPA Brauer & Bergenstamm, 1889
Angiometopa falleni Pape, 1986
 = *ruralis* (Fallén, 1817) preocc.
BRACHICOMA Rondani, 1856
Brachicoma devia (Fallén, 1820)
Brachicoma borealis Ringdahl, 1932
 SARCOPHAGINAE Macquart, 1834
BLAESOXIPHA Loew, 1861
sg. *Blaesoxipha* Loew, 1861
Blaesoxipha lapidosa Pape, 1994
 = *agrestis* auct. nec (Robineau-Desvoidy, 1863)
 = *campestris* auct. nec (Robineau-Desvoidy, 1863)
Blaesoxipha laticornis (Meigen, 1826)
Blaesoxipha plumicornis (Zetterstedt, 1859)
 = *laticornis* misid.
 = *gladiatrix* (Pandellé, 1896)
sg. *Servaisia* Robineau-Desvoidy, 1863
Blaesoxipha erythrura (Meigen, 1826)
RAVINIA Robineau-Desvoidy, 1830
Ravinia pernix (Harris, 1780)
 = *striata* (Fabricius, 1794) preocc.
SARCOPHAGA Meigen, 1826

- sg. *Bellieriomima*** Rohdendorf, 1937
Sarcophaga subulata Pandellé, 1896
- sg. *Discacheata*** Enderlein, 1928
Sarcophaga pumila Meigen, 1826
- sg. *Helicophagella*** Enderlein, 1928
Sarcophaga crassimargo Pandellé, 1896
Sarcophaga melanura Meigen, 1826
Sarcophaga rosellei Böttcher, 1912
- sg. *Heteronychia*** Brauer & Bergenstamm, 1889
Sarcophaga depressifrons Zetterstedt, 1845
 = *offuscata* auct. nec Meigen, 1826
Sarcophaga haemorrhoea Meigen, 1826
Sarcophaga proxima (Rondani, 1860)
Sarcophaga vagans (Meigen, 1826)
 = *frenata* Pandellé, 1896
Sarcophaga vicina (Macquart, 1835)
- sg. *Liosarcophaga*** Enderlein, 1928
Sarcophaga emdeni (Rohdendorff, 1969)
 = *teretirostris* auct. nec Pandellé, 1896
Sarcophaga portschinskyi Rohdendorf, 1937
 = *tuberosa* misid.
- sg. *Mehria*** Enderlein, 1928
Sarcophaga sexpunctata (Fabricius, 1805)
 = *clathrata* (Meigen, 1826)
Sarcophaga nemoralis Kramer, 1908
- sg. *Myorhina*** Robineau-Desvoidy, 1830
 = *Pierretia* Robineau-Desvoidy, 1863
Sarcophaga socrus Rondani, 1860
 = *rostrata* Pandellé, 1896
Sarcophaga villeneuvei Böttcher, 1912
- sg. *Pandelleisca*** Rohdendorf, 1937
Sarcophaga similis Meade, 1876
- sg. *Parasarcophaga*** Johnston & Tiegs, 1921
Sarcophaga albiceps Meigen, 1826
 = *privigna* Rondani, 1860
- sg. *Robineauella*** Enderlein, 1928
Sarcophaga caeruleascens Zetterstedt, 1838
 = *scoparia* Pandellé, 1896
- sg. *Rosellea*** Rohdendorf, 1937
Sarcophaga aratrix Pandellé, 1896
- sg. *Sarcophaga*** Meigen, 1826
Sarcophaga carnaria (Linnaeus, 1758)
 = *schulzi* Müller, 1922

= *lehmanni* auct. nec Müller, 1922

Sarcophaga lehmanni Müller, 1922

= *lasiostyla* auct. nec Macquart, 1843

= *cognata* Rondani, 1860 preocc.

Sarcophaga subvicina Rohdendorf, 1937

Sarcophaga variegata (Scopoli, 1763)

= *carnaria* auct. nec (Linnaeus, 1758)

sg. *Sarcotachinella* Townsend, 1892

Sarcophaga sinuata Meigen, 1826

sg. *Thyrsocnema* Enderlein, 1928

Sarcophaga incisilobata Pandellé, 1896

Sarcophaga kentejana (Rohdendorf, 1937)

= *lapponica* (Tiensuu, 1939)

RHINOPHORIDAE Robineau-Desvoidy, 1863

MELANOPHORA Meigen, 1803

Melanophora roralis (Linnaeus, 1758)

PAYKULLIA Robineau-Desvoidy, 1830

Paykullia brevicornis (Zetterstedt, 1844)

Paykullia maculata (Fallén, 1815)

STEVENIA Robineau-Desvoidy, 1830

Stevenia atramentaria (Meigen, 1824)

TRICOGENA Rondani, 1856

= *Frauenfeldia* Egger, 1865

Tricogena rubricosa (Meigen, 1824)

TACHINIDAE Robineau-Desvoidy, 1830

EXORISTINAE Robineau-Desvoidy, 1863

tribe Exoristini Robineau-Desvoidy, 1863

EXORISTA Meigen, 1803

sg. *Adenia* Robineau-Desvoidy, 1863

Exorista mimula (Meigen, 1824)

Exorista rustica (Fallén, 1810)

Exorista sp. A

sg. *Exorista* Meigen, 1803

Exorista fasciata (Fallén, 1820)

Exorista larvarum (Linnaeus, 1758)

sg. *Podotachina* Brauer & Bergenstamm, 1891

Exorista grandis (Zetterstedt, 1844)

= *sorbillans* auct. nec Wiedemann, 1830

sg. *Ptilotachina* Brauer & Bergenstamm 1891

Exorista deligata Pandellé, 1896

CHETOGENA Rondani, 1856

- Chetogena tschorsnigi* Ziegler, 1999
DIPLOSTICHUS Brauer & Bergenstamm, 1889
Diplostichus janitrix (Hartig, 1838)
PHOROCERA Brauer & Bergenstamm, 1889
Phorocera assimilis (Fallén, 1810)
Phorocera obscura (Fallén, 1810)
PHORINIA Robineau-Desvoidy, 1830
Phorinia aurifrons Robineau-Desvoidy, 1830
BESSA Robineau-Desvoidy, 1830
Bessa selecta (Meigen, 1824)
tribe Blondeliini Robineau-Desvoidy, 1863
BELIDA Robineau-Desvoidy, 1863
= **Aporotachina** Meade, 1894
Belida angelicae (Meigen, 1824)
MEIGENIA Robineau-Desvoidy, 1830
Meigenia dorsalis (Meigen, 1824)
Meigenia mutabilis (Fallén, 1810)
= *bisignata* (Meigen, 1824)
ZAIRA Robineau-Desvoidy, 1830
= **Viviania** Rondani, 1861
Zaira cinerea (Fallén, 1810)
MEDINA Robineau-Desvoidy, 1830
Medina collaris (Fallén, 1820)
Medina luctuosa (Meigen, 1824)
Medina separata (Meigen, 1824)
POLICHETA Rondani, 1856
= **Perichaeta** preocc.
Policheta unicolor (Fallén, 1820)
ISTOCHETA Rondani, 1859
= **Hyperecteina** Schiner, 1862
Istocheta longicornis (Fallén, 1810)
STAUROCHAETA Brauer & Bergenstamm, 1889
Staurochaeta albocingulata (Fallén, 1820)
ADMONTIA Brauer & Bergenstamm, 1889
= **Trichopareia** Brauer & Bergenstamm, 1889
Admontia blanda (Fallén, 1820)
Admontia grandicornis (Zetterstedt, 1849)
Admontia seria (Meigen, 1824)
OSWALDIA Robineau-Desvoidy, 1863
Oswaldia muscaria (Fallén, 1810)
Oswaldia eggeri (Brauer & Bergenstamm, 1889)
Oswaldia reducta (Villeneuve, 1930)
Oswaldia spectabilis (Meigen, 1824)

= *albiquama* (Zetterstedt, 1844)

PARACRASPEDOTHRIX Villeneuve, 1919

Paracraspedothrix montivaga Villeneuve, 1919

LIGERIA Robineau-Desvoidy, 1863

Ligeria angusticornis (Loew, 1847)

= *zetterstedti* (Ringdahl, 1945)

LIGERIELLA Mesnil, 1961

Ligeriella aristata (Villeneuve, 1911)

BLONDELIA Robineau-Desvoidy, 1830

Blondelia nigripes (Fallén, 1810)

tribe Acemyini Brauer & Bergenstamm, 1889

ACEMYA Robineau-Desvoidy, 1830

Acemya acuticornis (Meigen, 1824)

Acemya rufitibia (von Roser, 1840)

tribe Ethillini Mesnil, 1944

PARATRYPHERA Brauer & Bergenstamm, 1891

Paratryphera barbatula (Rondani, 1859)

Paratryphera bisetosa (Brauer & Bergenstamm, 1891)

tribe Winthemiini Townsend, 1913

RHAPHIOCHAETA Brauer & Bergenstamm, 1889

Rhaphiochaeta breviseta (Zetterstedt, 1838)

SMIDTIA Robineau-Desvoidy, 1830

= *Timavia* Robineau-Desvoidy, 1863

Smidtia amoena (Meigen, 1824)

Smidtia conspersa (Meigen, 1824)

WINTHEMIA Robineau-Desvoidy, 1830

Winthemia cruentata (Rondani, 1859)

Winthemia erythrura (Meigen, 1838)

Winthemia quadripustulata (Fabricius, 1794)

Winthemia venusta (Meigne, 1824)

NEMORILLA Rondani, 1856

Nemorilla floralis (Fallén, 1810)

Nemorilla maculosa (Meigen, 1824)

= *floralis* misid.

tribe Eryciini Robineau-Desvoidy, 1830

APLOMYA Robineau-Desvoidy, 1830

Aplomya confinis (Fallén, 1820)

PHEBELLIA Robineau-Desvoidy, 1846

Phebellia clavellariae (Brauer & Bergenstamm, 1891)

Phebellia glauca (Meigen, 1824)

Phebellia glaucoides Herting, 1961

Phebellia glirina (Rondani, 1859)

Phebellia margaretae Bergström, 2005

- Phebellia nigripalpis* (Robineau-Desvoidy, 1847)
= *fuscipennis* (Robineau-Desvoidy, 1830)
Phebellia pauciseta (Villeneuve, 1908)
Phebellia strigifrons (Zetterstedt, 1838)
Phebellia stulta (Zetterstedt, 1844)
Phebellia triseta (Pandellé, 1896)
Phebellia vicina Wainwright, 1940
Phebellia villica (Zetterstedt, 1838)
Phebellia sp. A
NILEA Robineau-Desvoidy, 1863
Nilea hortulana (Meigen, 1824)
Nilea innoxia Robineau-Desvoidy, 1863
Nilea rufiscutellaris (Zetterstedt, 1859)
TLEPHUSA Robineau-Desvoidy, 1863
Tlephusa cincinna (Meigen, 1859)
= *diligens* auct. nec (Zetterstedt, 1844)
EPICAMPOCERA Macquart, 1849
Epicampocera succincta (Meigen, 1824)
PHRYXE Robineau-Desvoidy, 1830
Phryxe erythrostoma (Hartig, 1838)
Phryxe magnicornis (Zetterstedt, 1838)
Phryxe nemea (Meigen, 1824)
Phryxe vulgaris (Fallén, 1810)
PERIARCHICLOPS Villeneuve, 1924
Periarchiclops scutellaris (Fallén, 1820)
BACTROMYIA Brauer & Bergenstamm, 1891
Bactromyia aurulenta (Meigen, 1824)
= *Thecocarcelia acutangula* misid.
PSEUDOPERICHAETA Brauer & Bergenstamm, 1899
Pseudoperichaeta nigrolineata (Stephens, 1853)
LYDELLA Robineau-Desvoidy, 1830
Lydella ripae (Brischke, 1885)
= *grisescens* misid.
= *lepida* misid.
Lydella stabulans (Meigen, 1824)
CADURCIELLA Villeneuve, 1927
Cadurciella tritaeniata (Rondani, 1859)
DRINO Robineau-Desvoidy, 1863
Drino bohémica Mesnil, 1949
Drino galii (Brauer & Bergenstamm, 1891)
Drino gilva (Hartig, 1838)
Drino inconspicua (Meigen, 1830)
Drino lota (Meigen, 1824)

Drino vicina (Zetterstedt, 1849)

HUBNERIA Robineau-Desvoidy, 1848

= **Huebneria** orig. emend.

Hubneria affinis (Fallén, 1810)

CARCELIA Robineau-Desvoidy, 1830

sg. Carcelia Robineau-Desvoidy, 1830

Carcelia atricosta Herting, 1961

= *bombylans* misid.

Carcelia bombylans Robineau-Desvoidy, 1830

Carcelia gnava (Meigen, 1824)

= *excavata* (Zetterstedt, 1844)

Carcelia laxifrons Villeneuve, 1912

Carcelia lucorum (Meigen, 1824)

Carcelia rasa (Macquart, 1849)

= *amphion* Robineau-Desvoidy, 1863

Carcelia tibialis (Robineau-Desvoidy, 1863)

SENOMETOPIA Macquart, 1834

Senometopia excisa (Fallén, 1820)

Senometopia intermedia (Herting, 1960)

Senometopia pollinosa Mesnil, 1941

= *rutilla* auct. nec (Villeneuve, 1912)

= *obesa* auct. nec (Zetterstedt, 1859)

Senometopia separata (Rondani, 1859)

= *bombycivora* auct. nec (Robineau-Desvoidy, 1830)

ERYCIA Robineau-Desvoidy, 1830

Erycia fatua (Meigen, 1824)

= *festinans* misid.

Erycia furibunda (Zetterstedt, 1844)

XYLOTACHINA Brauer & Bergenstamm, 1891

Xylotachina diluta (Meigen, 1824)

tribe Goniini Liroy, 1864

PLATYMYA Robineau-Desvoidy, 1830

Platymya fimbriata (Meigen, 1824)

EUMEA Robineau-Desvoidy, 1863

= **Platymya** Robineau-Desvoidy, 1830 in part

Eumea linearicornis (Zetterstedt, 1844)

= *westermanni* (Zetterstedt, 1844)

Eumea mitis (Meigen, 1824)

MYXEXORISTOPS Townsend, 1911

Myxexoristops abietis Herting, 1964

Myxexoristops arctica (Zetterstedt, 1838)

Myxexoristops bonsdorffi (Zetterstedt, 1859)

Myxexoristops stolidia (Stein, 1924)

= *blondeli* misid.

ZENILLIA Robineau-Desvoidy, 1830

Zenillia fulva (Fallén, 1820)

= *libatrix* (Panzer, 1798) preocc.

CLEMELIS Robineau-Desvoidy, 1863

Clemelis pullata (Meigen, 1824)

PALES Robineau-Desvoidy, 1830

Pales pavidata (Meigen, 1824)

CYZENIS Robineau-Desvoidy, 1863

Cyzenis albicans (Fallén, 1810)

Cyzenis jucunda (Meigen, 1838)

BOTRIA Rondani, 1856

= *Bothria* orig. emend.

Botria frontosa (Meigen, 1824)

Botria subalpina Villeneuve, 1910

CEROMASIA Rondani, 1856

Ceromasia rubrifrons (Macquart, 1834)

ALLOPHOROCERA Hendel, 1901

= *Erycilla* Mesnil, 1957

Allophorocera ferruginea (Meigen, 1824)

Allophorocera lapponica Wood, 1974

OCYTATA Gistel, 1848

Ocytata pallipes (Fallén, 1820)

ERYNNIA Robineau-Desvoidy, 1830

Erynnia ocypterata (Fallén, 1810)

= *nitida* (Robineau-Desvoidy, 1830)

ELODIA Robineau-Desvoidy, 1863

Elodia ambulatoria (Meigen, 1824)

= *convexifrons* (Zetterstedt, 1844)

STURMIA Robineau-Desvoidy, 1830

Sturmia bella (Meigen, 1824)

BLEPHARIPA Rondani, 1856

Blepharipa pratensis (Meigen, 1824)

PROSOPEA Rondani, 1861

Prosopea nigricans (Egger, 1861)

HEBIA Robineau-Desvoidy, 1830

Hebia flavipes Robineau-Desvoidy, 1830

FRONTINA Meigen, 1838

Frontina laeta (Meigen, 1824)

BRACHICHETA Rondani, 1861

Brachicheta strigata (Meigen, 1824)

GONIA Meigen, 1803

Gonia capitata (De Geer, 1776)

- Gonia divisa* Meigen, 1826
Gonia ornata Meigen, 1826
Gonia picea (Robineau-Desvoidy, 1830)
 = *sicula* auct. nec (Robineau-Desvoidy, 1830)
ONYCHOGONIA Brauer & Bergenstamm, 1889
Onychogonia cervini (Bigot, 1881)
Onychogonia flaviceps (Zetterstedt, 1838)
 = *interrupta* (Rondani, 1859)
SPALLANZANIA Robineau-Desvoidy, 1830
Spallanzania hebes (Fallén, 1820)
 TACHININAE Robineau-Desvoidy, 1830
 tribe Polideini Brauer & Bergenstamm, 1889
LYDINA Robineau-Desvoidy, 1830
Lydina aenea (Meigen, 1824)
LYPHA Robineau-Desvoidy, 1830
Lypha dubia (Fallén, 1810)
Lypha ruficauda (Zetterstedt, 1838)
 tribe Tachinini Robineau-Desvoidy, 1830
TACHINA Meigen, 1803
 = *Larvaevora* Meigen, 1800 *suppr.*
sg. Eudoromyia Bezzi, 1906
Tachina fera (Linnaeus, 1761)
Tachina sp. aff. *magnicornis*
Tachina magnicornis (Zetterstedt, 1844)
sg. Servillia Robineau-Desvoidy, 1830
Tachina ursina (Meigen, 1824)
sg. Tachina Meigen, 1803
Tachina grossa (Linnaeus, 1758)
NOWICKIA Wachtl, 1894
Nowickia alpina (Zetterstedt, 1844)
Nowickia ferox (Panzer, 1809)
Nowickia marklini (Zetterstedt, 1838)
PELETERIA Robineau-Desvoidy, 1830
 = *Cuphocera* Macquart, 1845
Peleteria ferina (Zetterstedt, 1844)
Peleteria rubescens Robineau-Desvoidy, 1830
 = *nigricornis* (Meigen, 1838)
Peleteria ruficornis (Macquart, 1835)
GERMARIA Robineau-Desvoidy, 1830
 = *Atractochaeta* Brauer & Bergenstamm, 1889
Germaria angustata (Zetterstedt, 1844)
Germaria ruficeps (Fallén, 1820)
 tribe Linnaemyini Townsend, 1919

- LINNAEMYA** Robineau-Desvoidy, 1830
Linnaemya haemorrhoidalis (Fallén, 1810)
Linnaemya olsuffevi Zimin, 1954
= *haemorrhoidalis* misid.
Linnaemya rossica Zimin, 1954
= *haemorrhoidalis* misid.
Linnaemya vulpina (Fallén, 1810)
Linnaemya sp. A
CHRYSOSOMOPSIS Townsend, 1916
Chrysosomopsis aurata (Fallén, 1820)
PANZERIA Robineau-Desvoidy, 1830
= **Ernestia** Robineau-Desvoidy, 1830
Panzeria puparum (Fabricius, 1794)
Panzeria rudis (Fallén, 1810)
Panzeria vagans (Meigen, 1824)
APPENDICIA Stein, 1924
Appendicia truncata (Zetterstedt, 1838)
EURITHIA Robineau-Desvoidy, 1844
Eurithia anthophila (Robineau-Desvoidy, 1830)
= *radicum* auct. nec Linnaeus, 1758
Eurithia caesia (Fallén, 1810)
Eurithia connivens (Zetterstedt, 1844)
Eurithia consobrina (Meigen, 1824)
Eurithia intermedia (Zetterstedt, 1844)
= *conjugata* (Zetterstedt, 1855)
Eurithia vivida (Zetterstedt, 1838)
HYALURGUS Brauer & Bergenstamm, 1893
Hyalurgus crucigerus (Zetterstedt, 1838)
Hyalurgus lucidus (Meigen, 1824)
NEMORAEA Robineau-Desvoidy, 1830
Nemoraea pellucida (Meigen, 1824)
GYMNOCHETA Robineau-Desvoidy, 1830
Gymnocheta magna (Fallén, 1810)
Gymnocheta viridis (Fallén, 1810)
ZOPHOMYIA Macquart, 1835
Zophomyia temula (Scopoli, 1763)
CLEONICE Robineau-Desvoidy, 1863
= **Steiniella** Berg, 1898 preocc.
Cleonice callida (Meigen, 1824)
Cleonice keteli Ziegler, 2000
Cleonice nitidiuscula (Zetterstedt, 1859)
LOEWIA Egger, 1856
= **Fortisia** Rondani, 1861

- Loewia erecta* Bergström, 2007
 = *phaeoptera* misid.
- Loewia foeda* (Meigen, 1824)
- ELOCERIA** Robineau-Desvoidy, 1863
- Eloceria delecta* (Meigen, 1824)
- tribe Brachymerini Mesnil, 1939
- PSEUDOPACHYSTYLUM** Mik, 1891
- Pseudopachystylum gonioides* (Zetterstedt, 1838)
- tribe Pelatachinini Mesnil, 1966
- PELATACHINA** Meade, 1894
- Pelatachina tibialis* (Fallén, 1810)
- tribe Macquartiini Robineau-Desvoidy, 1830
- MACQUARTIA** Robineau-Desvoidy, 1830
- Macquartia dispar* (Fallén, 1820)
- Macquartia nudigena* Mesnil, 1972
 = *buccalis* auct. nec Robineau-Desvoidy, 1830
- Macquartia tenebricosa* (Meigen, 1824)
- Macquartia viridana* Robineau-Desvoidy, 1863
- ANTHOMYIOPSIS** Townsend, 1916
 = *Ptilopsina* Villeneuve, 1920
- Anthomyiopsis nigrisquamata* (Zetterstedt, 1838)
- tribe Triarthriini Belshaw, 1993
- TRIARTHRIA** Stephens, 1829
- Triarthria setipennis* (Fallén, 1810)
- tribe Neaerini Mesnil, 1966
- PHYTOMYPTERA** Rondani, 1845
 = *Elfia* Robineau-Desvoidy, 1850
- Phytomyptera bohémica* Kramer, 1907
- Phytomyptera cingulata* (Robineau-Desvoidy, 1830)
- Phytomyptera nigrina* (Meigen, 1824)
- Phytomyptera minutissima* (Zetterstedt, 1844)
- Phytomyptera riedeli* (Villeneuve, 1930)
- Phytomyptera zonella* (Zetterstedt, 1844)
- GRAPHOGASTER** Rondani, 1868
 = *Anurogyna* Brauer & Bergenstamm, 1889
- Graphogaster brunnescens* Villeneuve, 1907
- Graphogaster buccata* Herting, 1971
- Graphogaster dispar* (Brauer & Bergenstamm, 1889)
 = *punctiventris* (Ringdahl, 1942)
- Graphogaster nigrescens* Herting, 1971
- tribe Siphonini Rondani, 1844
- ENTOMOPHAGA** Liroy, 1864
- Entomophaga nigrohalterata* (Villeneuve, 1921)

Entomophaga sufferta (Villeneuve, 1942)

CEROMYA Robineau-Desvoidy, 1830

Ceromya bicolor (Meigen, 1824)

Ceromya dorsigera Herting, 1967

Ceromya flaviceps Ratzeburg, 1844

Ceromya silacea (Meigen, 1824)

ACTIA Robineau-Desvoidy, 1830

Actia crassicornis (Meigen, 1824)

Actia infantula (Zetterstedt, 1844)

Actia lamia (Meigen, 1838)

Actia maksymovi Mesnil, 1952

Actia nigroscutellata Lundbeck, 1927

Actia pilipennis (Fallén, 1810)

Actia resinellae (Schrank, 1781)

= *nudibasis* Stein, 1924

PERIBAEA Robineau-Desvoidy, 1863

Peribaea hertingi Andersen, 1996

= *fissicornis* misid.

Peribaea longirostris Andersen, 1996

CERANTHIA Robineau-Desvoidy, 1830

Ceranthia abdominalis Robineau-Desvoidy, 1830

Ceranthia lichtwardtiana (Villeneuve, 1931)

Ceranthia pallida Herting, 1959

Ceranthia tenuipalpis (Villeneuve, 1921)

Ceranthia tristella Herting, 1966

Ceranthia vernerii Andersen, 1996

APHANTORHAPHOPSIS Townsend, 1926

Aphantorhaphopsis samarensis (Villeneuve, 1921)

Aphantorhaphopsis siphonoides (Strobl, 1898)

Aphantorhaphopsis verralli (Wainwright, 1928)

SIPHONA Meigen, 1803

Siphona boreata Mesnil, 1960

Siphona collini Mesnil, 1960

Siphona confusa Mesnil, 1961

= *mesnili* Andersen, 1982

Siphona cristata (Fabricius, 1805)

= *geniculata* auct. nec (De Geer, 1776)

Siphona flavifrons (Staeger, 1849)

Siphona geniculata (De Geer, 1776)

= *urbana* (Harris, 1776)

Siphona grandistyla Pandellé, 1894

Siphona immaculata Andersen, 1996

Siphona ingerae Andersen, 1982

- Siphona hokkaidensis* Mesnil, 1957
 = *silvarum* Herting, 1967
 = *martini* Andersen, 1982
- Siphona maculata* (Staeger, 1849)
Siphona nigricans (Villeneuve, 1930)
Siphona paludosa Mesnil, 1960
Siphona pauciseta Rondani, 1865
Siphona rossica Mesnil, 1961
Siphona setosa Mesnil, 1960
Siphona subarctica Andersen, 1996
Siphona variata Andersen, 1982
 tribe Leskiini Townsend, 1919
- APHRIA** Robineau-Desvoidy, 1830
Aphria longilingua Rondani, 1861
Aphria longirostris (Meigen, 1824)
- DEMOTICUS** Macquart, 1854
Demoticus plebejus (Fallén, 1810)
- LESKIA** Robineau-Desvoidy, 1830
Leskia aurea (Fallén, 1820)
- SOLIERIA** Robineau-Desvoidy, 1848
Solieria inanis (Fallén, 1810)
Solieria pacifica (Meigen, 1824)
 = *tibialis* (von Roser, 1840)
 tribe Minthonini Brauer & Bergenstamm, 1889
- MINTHO** Robineau-Desvoidy, 1830
Mintho rufiventris (Fallén, 1816)
- MINTHODES** Brauer & Bergenstamm, 1899
Minthodes picta (Zetterstedt, 1844)
 tribe Microphthalmini Crosskey, 1976
- DEXIOSOMA** Rondani, 1856
Dexiosoma caninum (Fabricius, 1794)
- DEXIINAE Macquart, 1834
 tribe Dexiini Macquart, 1834
- TRIXA** Meigen, 1824
 = **Murana** Meigen, 1824
Trixa caerulea Meigen, 1824
 = *alpina* Meigen, 1824
Trixa conspersa (Harris, 1776)
 = *variegata* Meigen, 1824
 = *oestroidea* (Robineau-Desvoidy, 1830)
- BILLAEA** Robineau-Desvoidy, 1830
Billaea irrorata (Meigen, 1826)
Billaea kolomyetzi Mesnil, 1970

- Billaea triangulifera* (Zetterstedt, 1844)
DINERA Robineau-Desvoidy, 1830
Dinera ferina (Fallén, 1816)
Dinera grisescens (Fallén, 1816)
Dinera carinifrons (Fallén, 1817)
ESTHERIA Robineau-Desvoidy, 1830
Estheria petiolata (Bonsdorff, 1866)
DEXIA Meigen, 1826
Dexia vacua (Fallén, 1816)
PROSENA Le Peletier & Serville, 1828
Prosenia siberita (Fabricius, 1775)
tribe Voriini Townsend, 1912
ERIOTHRIX Meigen, 1803
Eriothrix argyreatus (Meigen, 1824)
= *apenninus* misid.
Eriothrix prolixa (Meigen, 1824)
Eriothrix rufomaculata (De Geer, 1776)
= *monochaeta* (Wainwright, 1928)
TRAFIOIA Brauer & Bergenstamm, 1893
Trafoia monticola Brauer & Bergenstamm, 1893
CAMPYLOCHETA Rondani, 1859
= *Elpe* Robineau-Desvoidy, 1863
Campylocheta fuscinervis (Stein, 1924)
Campylocheta inepta (Meigen, 1824)
Campylocheta praecox (Meigen, 1824)
BLEPHAROMYIA Brauer & Bergenstamm, 1889
Blepharomyia angustifrons Herting, 1971
Blepharomyia pagana (Meigen, 1824)
= *amplicornis* (Zetterstedt, 1844)
Blepharomyia piliceps (Zetterstedt, 1859)
PETEINA Meigen, 1838
Peteina erinaceus (Fabricius, 1794)
RAMONDA Robineau-Desvoidy, 1863
Ramonda prunaria (Rondani, 1861)
= *carbonaria* misid.
Ramonda ringdahli (Villeneuve, 1922)
Ramonda spathulata (Fallén, 1820)
WAGNERIA Robineau-Desvoidy, 1830
Wagneria alpina (Villeneuve, 1910)
Wagneria costata (Fallén, 1820)
ATHRYCIA Robineau-Desvoidy, 1830
= *Blepharigena* Rondani, 1856
Athrycia curvinervis (Zetterstedt, 1844)

Athrycia impressa (van der Wulp, 1869)

Athrycia trepida (Meigen, 1824)

Athrycia sp. A

VORIA Robineau-Desvoidy, 1830

= **Plagia** Meigen, 1838

Voria ruralis (Fallén, 1810)

CYRTOPHLEBA Rondani, 1856

Cyrtophleba ruricola (Meigen, 1824)

Cyrtophleba vernalis (Kramer, 1917)

KLUGIA Robineau-Desvoidy, 1863

Klugia marginata (Meigen, 1824)

CHAETOVORIA Villeneuve, 1920

Chaetovoria antennata Villeneuve, 1920

PHYLLOMYA Robineau-Desvoidy, 1830

Phyllomya volvulus (Fabricius, 1794)

THELAIRA Robineau-Desvoidy, 1830

Thelaira nigrina (Fallén, 1817)

= *nigripes* (Fabricius, 1794) preocc.

HALIDAYA Egger, 1856

Halidaya aurea Egger, 1856

STOMINA Robineau-Desvoidy, 1830

Stomina tachinoides (Fallén, 1816)

tribe Dufouriini Robineau-Desvoidy, 1830

DUFOURIA Robineau-Desvoidy, 1830

Dufouria chalybeata (Meigen, 1824)

Dufouria nigrata (Fallén, 1810)

RONDANIA Robineau-Desvoidy, 1850

Rondania dimidiata (Meigen, 1824)

Rondania dispar (Dufour, 1851)

Rondania fasciata (Macquart, 1834)

MICROSOMA Macquart, 1855

= **Campogaster** Rondani, 1856

Microsoma exiguum (Meigen, 1824)

FRERAEA Robineau-Desvoidy, 1830

Freraea gagatea Robineau-Desvoidy, 1830

= *albipennis* (Zetterstedt, 1838)

PHASIINAE Robineau-Desvoidy, 1830

tribe Phasiini Robineau-Desvoidy, 1830

CLYTIOMYA Rondani, 1861

Clytiomya continua (Panzer, 1798)

ELIOZETA Rondani, 1856

Eliozeta pellucens (Fallén, 1820)

SUBCLYTIA Pandellé, 1894

Subclytia rotundiventris (Fallén, 1820)

GYMNOSOMA Meigen, 1803

Gymnosoma clavatum (Rohdendorf, 1947)

Gymnosoma dolycoridis Dupuis, 1961

Gymnosoma nudifrons Herting, 1966

CISTOGASTER Latreille, 1804

= *Pallasia* Robinaeu-Desvoidy, 1830

Cistogaster globosa (Fabricius, 1775)

PHASIA Latreille, 1804

= *Alophora* Robineau-Desvoidy, 1830

sg. Hyalomya Robineau-Desvoidy, 1830

Phasia pusilla (Meigen, 1824)

sg. Phasia Latreille, 1804

Phasia aurulans (Meigen, 1824)

Phasia barbifrons (Girschner, 1887)

Phasia hemiptera (Fabricius, 1794)

Phasia obesa (Fabricius, 1798)

Phasia subcoleoprata (Linnaeus, 1767)

tribe Catharosiini Townsend, 1936

CATHAROSIA Rondani, 1868

Catharosia pygmaea (Fallén, 1815)

tribe Strongygastrini Townsend, 1936

STRONGYGASTER Macquart, 1834

= *Tamiclea* Macquart, 1836

Strongygaster celer (Meigen, 1838)

tribe Leucostomatini Townsend, 1908

LEUCOSTOMA Meigen, 1803

Leucostoma simplex (Fallén, 1815)

BRULLAEA Robineau-Desvoidy, 1863

Brullaea ocypteroidea Robineau-Desvoidy, 1863

CINOCHIRA Zetterstedt, 1845

Cinochira atra Zetterstedt, 1945

tribe Cylindromyiini Townsend, 1912

LOPHOSIA Meigen, 1824

sg. Lophosia Meigen, 1824

Lophosia fasciata Meigen, 1824

CYLINDROMYIA Meigen, 1803

sg. Cylindromyia Meigen, 1803

Cylindromyia brassicaria (Fabricius, 1775)

sg. Neocyptera Townsend, 1916

Cylindromyia interrupta (Meigen, 1824)

sg. Ocypterula Rondani, 1856

Cylindromyia pusilla (Meigen, 1824)

HEMYDA Robineau-Desvoidy, 1830

Hemyda obscuripennis (Meigen, 1824)

Hemyda vittata (Meigen, 1824)

BESSERIA Robineau-Desvoidy, 1830

Besseria anthophila (Loew, 1871)

Besseria melanura (Meigen, 1824)

PHANIA Meigen, 1824

Phania curvicauda (Fallén, 1820)

Phania funesta (Meigen, 1824)

= *pseudofunesta* (Villeneuve, 1931)

Phania thoracica Meigen, 1824

OESTRIDAE Leach, 1815

HYPODERMATINAE Rondani, 1856

HYPODERMA Latreille, 1818

Hypoderma bovis (Linnaeus, 1758)

Hypoderma lineatum (De Villers, 1789)

Hypoderma tarandi (Linnaeus, 1758)

CEPHENEMYIINAE Patton, 1921

tribe Cephenemyiini Patton, 1921

CEPHENEMYIA Latreille, 1818

Cephenemyia trompe (Modeer, 1786)

Cephenemyia ulrichii Brauer, 1862

GASTEROPHILINAE Girschner, 1896

GASTEROPHILUS Leach, 1817

Gasterophilus haemorrhoidalis (Linnaeus, 1758)

Gasterophilus intestinalis (De Geer, 1776)

Gasterophilus nasalis (Linnaeus, 1758)

Checklist part 2: Hippoboscoidea

suborder Brachycera Macquart, 1834

clade Eremoneura Lameere, 1906

clade Cyclorrhapha Brauer, 1863

infraorder Schizophora Becher, 1882

clade Muscaria Enderlein, 1936

parvorder Calyptratae Robineau-Desvoidy, 1830

superfamily Hippoboscoidea Samouelle, 1819

HIPPOBOSCIDAE Samouelle, 1819

HIPPOBOSCINAE Samouelle, 1819

tribe Ornithomyini Costa, 1846

CRATAERINA von Olfers, 1816

= **Stenopteryx** Leach, 1817

Crataerina hirundinis (Linnaeus, 1758)

Crataerina pallida (Olivier, 1812)

tribe Olfersiini Maa, 1969

OLFERSIA Wiedemann, 1830

= **Feronia** Leach, 1817 preocc.

Olfersia fumipennis (Sahlberg, 1886)

ORNITHOMYA Latreille, 1802

Ornithomya avicularia (Linnaeus, 1758)

Ornithomya chloropus Bergroth, 1901

Ornithomya fringillina Curtis, 1836

ORNITHOPHILA Rondani, 1879

Ornithophila metallica (Schiner, 1864)

tribe Hippoboscini Samouelle, 1819

HIPPOBOSCA Linnaeus, 1758

Hippobosca equina Linnaeus, 1758

tribe Lipoptenini Speiser, 1908

LIPOPTENA Nitzsch, 1818

Lipoptena cervi (Linnaeus, 1758)

MELOPHAGUS Latreille, 1802

Melophagus ovinus (Linnaeus, 1758)

NYCTERIBIINAE Samouelle, 1819

tribe Nycteribiini Samouelle, 1819

NYCTERIBIA Latreille, 1796

sg. Nycteribia Latreille, 1796

Nycteribia kolenatii Theodor & Moscona, 1954

= *pedicularia* auct. nec Latreille, 1805

= *latreillei* misid.

= *blasii* (Kolenati, 1863) preocc.

PENICILLIDIA Kolenati, 1863

Penicillidia monoceros Speiser, 1900

Excluded species

Aphantorhaphopsis (*Ceranthia*) *selecta* (Pandellé, 1894) misidentified

Baumhaueria goniaeformis (Meigen, 1824) misidentified

Bithia geniculata (Zetterstedt, 1844) see Notes

Blepharipoda scutellata (Robineau-Desvoidy, 1830) misidentified

Blondelia piniariae (Hartig, 1838). Specimens reared from the correct host are mentioned in the notes of Lauri Tiensuu. See Bergström and Bystrowski (2011) for a recent revalidation of this species.

Billaea fortis (Rondani, 1862) a likely misidentification, the specimen cannot be located
Dexia rustica (Fallén, 1816) misidentified
Drino atropivora Robineau-Desvoidy, 1830 not found within present borders
Entomophaga exoleta (Meigen, 1824) misidentified
Graphogaster vestita Rondani, 1868 misidentified
Gymnosoma rotundatum (Linnaeus, 1758) misidentified
Istocheta subcinerea (Borisova-Zinoveva, 1966) misidentified
Leiophora innoxia (Meigen, 1824) specimen lost, but likely a misidentification due to the host record (*Diprion* sp. Symphyta: Diprionidae)
Linnaemya comta (Fallén, 1810) misidentified
Lydella grisescens Robineau-Desvoidy, 1830 misidentified
Macronychia alpestris Rondani, 1865 labeling mistake
Macronychia conica Robineau-Desvoidy, 1830 labeling mistake
Macroprosopa atrata (Fallén, 1810) misidentified
Masicera silvatica (Fallén, 1810) misidentified
Oestrus ovis Linnaeus, 1758 extinct?
Opesia cana (Meigen, 1824) not found within present borders
Pseudogonia rufifrons (Wiedemann, 1830) imported
Pseudoperichaeta palesoidea (Robineau-Desvoidy, 1830) misidentified
Sarcophaga agnata Rondani, 1860 misidentified
Sarcophaga dissimilis Meigen, 1826 misidentified
Sarcophaga granulata Kramer, 1908
Sarcophila latifrons (Fallén, 1817) not found within present borders
Senometopia confundens Rondani, 1859 misidentified
Thelymorpha marmorata (Fabricius, 1805), record cannot be confirmed – specimen lost?

Notes

- Athrycia* sp. A.** Probably an undescribed species (J. Flinck leg., T. Zeegers priv. comm.)
- Bithia geniculata* (Zetterstedt, 1844).** Erroneously included in the previous checklist (Hackman 1980, 1981) on the basis of misinterpreted records of *Siphona geniculata* (De Geer, 1776).
- Dexia vacua* (Fallén, 1816) and *Dinera carinifrons* (Fallén, 1817).** Conspicuous large species with many historical records, however they have not been seen for decades in Finland (last record for *D. carinifrons* from 1945). While the species have certainly become rarer, their complete extinction cannot be confirmed due to the regional paucity of recording. For example, *Linnaemya rossica* Zimin, 1954 was similarly missing for 50 years until rediscovered in 2013 from Lieksa, eastern Finland.
- Exorista* sp. A.** Probably an undescribed species, near to *E. tubulosa* Herting, 1967 (C. Bergström, pers. comm.)
- Linnaemya* sp. A.** An undescribed species (C. Bergström, pers. comm.). A highly unusual, shiny black *Linnaemya* species from Lapland.

Nemorilla floralis (Fallen, 1810). *N. maculosa* (Meigen, 1824) has been mixed with this species on Hackman's (1980) list. True *floralis* was found new to Finland in 2011 from Loviisa (J. Flinck leg.).

Phebellia sp. A. Probably an undescribed species (J. Flinck leg., T. Zeegers priv. comm.)

Stomorbina lunata (Fabricius, 1805). Recorded once from the University Botanical Gardens in Helsinki (2 exx). It is quite possible that the flies were imported to Finland, but the species is also a known vagrant and the possibility of natural dispersal cannot be excluded.

Tachina sp. aff. *magnicornis*. Close to the real *T. magnicornis* of Zetterstedt. The proper name of this species still under investigation, but may be *T. tetramera* (Zetterstedt, 1849). It is common and widespread in Finland. Some records have been confirmed by the DNA barcoding project (Pohjoismäki et al. 2013). See Tschorsnig et al. (2002) and Novotna et al. (2009).

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