

A check-list of Norwegian Muscidae (Diptera)

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Rognes, K. 1986. A check-list of Norwegian Muscidae (Diptera). *Fauna norvegica Ser. B*, 33, 77–85.

Muscid material from Norway in the museum collections of the Universities in Bergen, Oslo and Tromsø, in my own collection and some other collections has been revised and a check-list of 289 species known at present from Norway is presented. Three new synonymies are established: (1) *Aricia umbrata* Storm, 1896 = *Hebecnema umbratica* (Meigen, 1826), (2) *Helina loekenae* Lavčiev, 1983 = *Helina bohemani* (Ringdahl, 1916), and (3) *Spilogona hardangervidensis* Lavčiev, 1983 = *Spilogona depressiuscula* (Zetterstedt, 1838). *Coenosia flavisetata* Huckett, 1965 is recorded from the Palaearctic Region for the first time.

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The check-list of Muscidae presented below covers Norway with exclusion of Svalbard and replaces the previously published lists of Siebke (1877), Schøyen (1889, 1895), Bidenkap (1892, 1898, 1901) and Ringdahl (1944a, 1944b, 1952). *Fannia* and its allies are now usually treated as a family separate from the Muscidae proper and this practice is followed here. The list is based upon a revision of the material of muscids from Norway in the museum collections of the Universities in Bergen (mainly O. Bidenkap, A. Fjellberg, L. Greve, A. Løken, N. Knaben, T.R. Nielsen leg.) (parts of the material collected at Hardangervidda during the IBP project have been included, see Fjellberg 1972), Oslo (mainly J. Knaben, R. Krogerus, J.H.S. Siebke leg.) and Tromsø (mainly T. Soot-Ryen, but some also O. Ringdahl leg.) (about 7800 specimens) and in my own collection (about 7900 specimens). In addition a few small private collections have been examined (B. Sagvolden, Rollag, J.H. Simonsen, Oslo). I have not seen the V. Storm collection in Trondheim revised by Ringdahl (1944a) (except for the Storm types, rediscovered in the Tromsø collection, see below). Occasional specimens in foreign collections have also been examined (coll. Zetterstedt, Lund, coll. Becker, Berlin, coll. Ringdahl, Lund). I have also examined some unidentified material from Norway collected by P. Ardö, H. Andersson and R. Dahl (in Lund). I have examined specimens from Norway of all the species listed except 8. My reasons for listing

these are included among the annotations at the end of the list.

The following type-material from Norway has been examined: *Aricia semipellucida* Zetterstedt, 1845: 1523 (♂ syntype labelled «Sul» in Zetterstedt's hand in the Oslo collection) (= *Lophosceles mutatus* Fallén), *Anthomyza linearipes* Zetterstedt, 1845: 1676 (♀ syntype from Alstahaug 8 July 1840), *Aricia maculipennis* Storm, 1896: 238 (holotype ♂ in Tromsø Museum) (= *Phaonia pratensis* Rob.-Desv.), *Aricia anthomyzoides* Storm, 1896: 239 (holotype ♂ in Tromsø Museum) (= *Thricops longipes* Zett.), *Aricia propinqua* Storm, 1896: 239 (holotype ♂ in Tromsø Museum) (= *Helina cinerella* Wulp), *Aricia umbrata* Storm, 1896: 238 (2 ♂♂ syntypes in Tromsø Museum) (= *Hebecnema umbratica* Meigen, N.SYN.), *Phaonia norvegica* Ringdahl, 1928 (1 ♂ syntype from Tromsø in Tromsø Museum) (= *Phaonia zugmayeriae* Schnabl), *Helina loekenae* Lavčiev, 1983: 101 (holotype ♂ in the Bergen collection) (= *Helina bohemani* Ringdahl, N.SYN.), *Spilogona hardangervidensis* Lavčiev, 1983: 104 (holotype ♂ in the Bergen collection) (= *Spilogona depressiuscula* Zett., N.SYN.).

Ringdahl (1952) listed 180 species from Norway on the basis of his own collecting activities in Northern Norway, revisions of the Tromsø and Trondheim collections (Ringdahl 1928, 1944a, 1944b), the Zetterstedt collection which contains specimens, including types, from Nor-

1) Paper no. 7 in a series based on investigations financed by a grant («vikarstipend») from Stavanger Lærerhøgskole 1982–1983.

way (Ringdahl 1939), and unpublished examination of parts of the Oslo and Bergen collections (some results published by Soot-Ryen 1943). 2 species, *Hydrotaea capensis* and *Spilogona trianguligera*, published by Schøyen (1895) and Ringdahl (1928), respectively, were not included. Ringdahl (1954a) added 7 species, Ardö (1957) 3, Dahl (1968) 2, Pont (1971) 1, and Rognes (1979, 1982, 1983a, 1983b) 26, bringing the total no. 221. The present revision lists 289 species from Norway. In comparison it may be noted that 213 species have been published from Denmark (Michelsen 1977), 251 from Finland (Hackman 1980), 344 from Sweden (Ringdahl 1952) and 279 from the British Isles (Pont 1975). In view of the high number of species known from Sweden it is safe to conclude that many species still await discovery in Norway.

The classification and nomenclature adopted is the one used by A.C. Pont in his Muscidae contribution to the forthcoming Catalogue of Palaearctic Diptera (editor A. Soos, Budapest). The nomenclature differs in several respects from the one used e.g. by Hennig (1955—1964). A number of generic synonyms are provided to aid in recognition of generic limits. Specific synonyms are included when based on type-specimens from Scandinavian localities, met with in commonly used identification literature (e.g. Ringdahl 1954c, 1956, Hennig 1955—1964, Fonseca 1968), or else occurring in works dealing with the Scandinavian fauna. In the list all synonyms are indented relative to valid names. Superscript numbers refer to the annotations at the end of the list. At the end of the paper is a list of species recorded from Norway in the literature but excluded from the check-list on the basis of presently available evidence.

Family Muscidae

Subfamily Achanthipterinae

Achanthiptera Rondani, 1856
rohrelliformis (Robineau-Desvoidy, 1830)
inanis (Fallén, 1825), preocc.

Subfamily Muscinae

Tribe Reinwardtiini
Muscina Robineau-Desvoidy, 1830
levida (Harris, 1780)
assimilis (Fallén, 1823)
borealis (Zetterstedt, 1838)
pascuorum (Meigen, 1826)
prolapsa Harris, 1780
pabulorum (Fallén, 1817)
stabulans (Fallén, 1817)

- Tribe Azeliini
Azelia Robineau-Desvoidy, 1830
aterrima (Meigen, 1826)
cilipes (Haliday, 1838)
tibialis (Staeger, 1843), preocc.
staegeri (Zetterstedt, 1845)
gibbera (Meigen, 1826)
nebulosa Robineau-Desvoidy, 1830
macquarti (Staeger, 1843)
trigonica Hennig, 1956
triquetra (Wiedemann, 1817)
nudipes (Zetterstedt, 1849)
zetterstedtii Rondani, 1866
- Thricops* Rondani, 1856
Tricophiticus Rondani, 1861
Alloeostylus Schnabl, 1888
Hera Schnabl, 1888
Rhynchorichops Schnabl, 1889
Pierocanthus Malloch, 1921
Lasiops: authors, not Meigen (misidentification)
aculeipes (Zetterstedt, 1838)
albibasalis (Zetterstedt, 1849)¹
cunctans (Meigen, 1826)
hirsutula (Zetterstedt, 1838)
depressiventris (Zetterstedt, 1845)
diaphanus (Wiedemann, 1817)
varians (Zetterstedt, 1838)
foveolatus (Zetterstedt, 1845)
perpendicularis (Zetterstedt, 1845)
furcatus (Stein, 1916)
genarum (Zetterstedt, 1838)
sundewalli (Zetterstedt, 1845)
hirtulus (Zetterstedt, 1838)
subrostrata (Zetterstedt, 1845)
innocuus (Zetterstedt, 1838)
pubipes (Zetterstedt, 1845)
lividiventris (Zetterstedt, 1845)
longipes (Zetterstedt, 1845)
atra (Fallén, 1823), preocc.
anthomyzoides (Storm, 1896)
nigrifrons (Robineau-Desvoidy, 1830)
variabilis (Fallén, 1823), preocc.
nigritellus (Zetterstedt, 1838)
rostratus (Meade, 1882)
seminereus (Wiedemann, 1817)
hyalinata (Fallén, 1823), preocc.
separ (Zetterstedt, 1845)
simplex (Wiedemann, 1817)
postica (Zetterstedt, 1846)
sudeticus (Schnabl, 1888)
- Drymeia* Meigen, 1826
Pogonomyia Rondani, 1871
Trichopticoides Ringdahl, 1931
hamata (Fallén, 1823)
piligera (Zetterstedt, 1845)
tetra (Meigen, 1826)
fuscinervis (Zetterstedt, 1838)
lanceolata (Zetterstedt, 1838)
obscuripennis (Zetterstedt, 1838)
vicana (Harris, 1780)
decolor (Fallén, 1824)
innocens (Zetterstedt, 1845)

- Hydrotaea* Robineau-Desvoidy, 1830
Ophyra Robineau-Desvoidy, 1830
Lasiops Meigen, 1838
Cryptophyra Michelsen, 1978
aenescens (Wiedemann, 1830)
albipuncta (Zetterstedt, 1845)
anxia (Zetterstedt, 1838)
bispinosa (Zetterstedt, 1845)
armipes (Fallén, 1825)
occulta (Meigen, 1826)
borussica Stein, 1899
capensis (Wiedemann, 1818)
anthrax (Meigen, 1826)
cadaverina (Mégnin, 1894)
cyrtoneurina (Zetterstedt, 1845)
dentipes (Fabricius, 1805)
diabolus (Harris, 1780)
ciliata (Fabricius, 1794), preocc.
spinipes (Fallén, 1823), preocc.
bimaculata (Meigen, 1826)
floccosa Macquart, 1835
armipes: authors, not Fallén
(misidentification)
glabricula (Fallén, 1825)²
ignava (Harris, 1780)
leucostoma (Wiedemann, 1817)
spoliata (Zetterstedt, 1849)
irritans (Fallén, 1823)
meteorica (Linnaeus, 1758)
militaris (Meigen, 1826)
pandellei Stein, 1899
pellucens Portschinsky, 1879
pilipes Stein, 1903
pilitibia Stein, 1916
ringdahli Stein, 1916
scambus (Zetterstedt, 1838)
similis Meade, 1887
velutina Robineau-Desvoidy, 1830
Potamia Robineau-Desvoidy, 1830
Dendrophaonia Malloch, 1923
littoralis Robineau-Desvoidy, 1830
querctei (Bouché, 1834)
platyptera (Zetterstedt, 1849)
- Tribe Muscini
Mesembrina Meigen, 1826
Hypodernodes Townsend, 1912
intermedia Zetterstedt, 1849
meridiana (Linnaeus, 1758)
mystacea (Linnaeus, 1758)
Polites Rondani, 1866
Poliella Ringdahl, 1922
Pseudomorellia Ringdahl, 1929
domitor (Harris, 1780)
albolineata (Fallén, 1823)
lardaria (Fabricius, 1781)
nigrolimbata (Bonsdorff, 1866)
steinii (Ringdahl, 1913)
Musca Linnaeus, 1758
autumnalis De Geer, 1776
domestica Linnaeus, 1758
tempestiva Fallén, 1817

- Morellia* Robineau-Desvoidy, 1830
aenescens Robineau-Desvoidy, 1830
valga (Wahlberg, 1845)
hortorum (Fallén, 1817)
podagrifica (Loew, 1857)
simplex (Loew, 1857)
Neomyia Walker, 1859
Orthellia Robineau-Desvoidy, 1863
Cryptolucilia Brauer & Bergenstamm, 1893
Pseudopyrellia Girschner, 1894
cornicina (Fabricius, 1781)
viridis (Wiedemann, 1824)
caesarion (Meigen, 1826), preocc.
jennica (Frey, 1909)
viridescens (Robineau-Desvoidy, 1830)
cornicina: authors, not Fabricius
(misidentification)
Eudasyphora Townsend, 1911
cyanella (Meigen, 1826)
cyanicolor (Zetterstedt, 1845)
zimini (Hennig, 1963)
- Tribe Stomoxyni
Stomoxys Geoffroy, 1762
calcitrans (Linnaeus, 1758)
Haematobosca Bezzi, 1907
stimulans (Meigen, 1824)
crassipalpis (Ringdahl, 1926)
- Subfamily Phaoniinae**
- Tribe Phaoniini
Phaonia Robineau-Desvoidy, 1830
Dialyta Meigen, 1826
Wahlgrenia Ringdahl, 1929
Dialytina Ringdahl, 1945
aeneiventris (Zetterstedt, 1845)
cinctinervis (Zetterstedt, 1860)
alpicola (Zetterstedt, 1845)
angelicae (Scopoli, 1763)
basalis (Zetterstedt, 1838: 691), preocc.
angulicornis (Zetterstedt, 1838)
erinacea (Fallén, 1824), preocc.
atriceps (Loew, 1858)
cincta (Zetterstedt, 1846)
consobrina (Zetterstedt, 1838)
marmorata (Zetterstedt, 1860)
errans (Meigen, 1826)
erratica (Fallén, 1825), preocc.
zetterstedti (Bonsdorff, 1866)
biseta Ringdahl, 1935, preocc.
erronea (Schnabl, 1887)
falleni Michelsen, 1977
vagans (Fallén, 1825), preocc.
fuscata (Fallén, 1825)
gobertiai (Mik, 1881)³
gracilis Stein, 1916
vetula (Zetterstedt, 1845: 1659), preocc.
grandaeva (Zetterstedt, 1845)
abietina Ringdahl, 1926
halterata (Stein, 1893)
hybrida (Schnabl, 1888)

- incana* (Wiedemann, 1817)
nemorum (Fallén, 1823), preocc.
plumbea (Meigen, 1826)
laeta (Fallén, 1823)
trigonalis (Meigen, 1826)
laetabilis Collin, 1951
latipalpis Schnabl, 1911
umberraticola d'Assis Fonseca, 1957
longicornis Stein, 1916
lugubris (Meigen, 1826)
magnicornis (Zetterstedt, 1845)
morio (Zetterstedt, 1845)
mystica (Meigen, 1826)
vittifera (Zetterstedt, 1845)
pallida (Fabricius, 1787)
pallidisquama (Zetterstedt, 1849)
anthracina (Zetterstedt, 1860)
palpata (Stein, 1897)
perdita (Meigen, 1830)
pratensis (Robineau-Desvoidy, 1830)
maculipennis (Storm, 1896)
laeta: authors, not Fallén (misidentification)
pullata (Czerny, 1900)
rufiventris (Scopoli, 1763)
nugator (Harris, 1780)
testacea (Fabricius, 1781), preocc.
scutellaris (Fallén, 1825), preocc.
populi (Meigen, 1826)
scutellata (Zetterstedt, 1845)
serva (Meigen, 1826)
siebecki Schnabl, 1911
confluens Stein, 1914
steinii (Strobl, 1898)
subfuscinervis (Zetterstedt, 1838)
vicina (Zetterstedt, 1838)
turpis (Zetterstedt, 1838)
inconspicua (Zetterstedt, 1838)
subventa (Harris, 1780)
variegata (Meigen, 1826)
denominata (Zetterstedt, 1855)
trimaculata (Bouché, 1834)
servaeformis Ringdahl, 1916
tuguriorum (Scopoli, 1763)
signata (Meigen, 1826)
erythrostroma (Zetterstedt, 1849)
valida (Harris, 1780)
viarum Robineau-Desvoidy, 1830
villana Robineau-Desvoidy, 1830
mystica: authors, not Meigen
(misidentification)
wahlbergi Ringdahl, 1930
zugmayeriae (Schnabl, 1888)
humeralis (Zetterstedt, 1845), preocc.
norvegica Ringdahl, 1928
Lophosceles Ringdahl, 1922
cinereiventris (Zetterstedt, 1845)⁴
cristata (Zetterstedt, 1845)
frenatus (Holmgren, 1872)
hians (Zetterstedt, 1838)
impar (Zetterstedt, 1846)
mutatus (Fallén, 1825)
- ochreata* (Zetterstedt, 1838)
semipellucida (Zetterstedt, 1845)
Helina Robineau-Desvoidy, 1830
Aricia Robineau-Desvoidy, 1830, preocc.
Spilogastra Macquart, 1835
Enoplopteryx Hendel, 1902
Arctohelina Ringdahl, 1929
Ammitzbolia Ringdahl, 1929
allotalla (Meigen, 1830)
bisignata (Zetterstedt, 1855)
annosa (Zetterstedt, 1838)
atricolor (Fallén, 1825)
denudata (Zetterstedt, 1845)
memnonipes (Zetterstedt, 1860)
bohemani (Ringdahl, 1916)
loekena Lavčev, 1983, SYN.N.⁵
celsa (Harris, 1780)
quadrimaculata (Fallén, 1823), preocc.
quadrimaculella Hennig, 1957
ciliata Karl, 1929⁶
ciliatocosta (Zetterstedt, 1845)
ciliipes (Schnabl, 1902)
cinerella (Wulp, 1867)
vanderwulpi (Schnabl, 1888)
propinqua (Storm, 1896)
confinis (Fallén, 1825)
confinis (Meigen, 1826), preocc.
anceps (Zetterstedt, 1838)
consimilis (Fallén, 1825)
cineraria (Zetterstedt, 1845)
cothurnata (Rondani, 1866)
obscuripes: Ringdahl 1928: 23, not Zetterstedt
(misidentification)
daicles (Walker, 1849)
binotata (Zetterstedt, 1845), preocc.
depuncta (Fallén, 1825)
demigrans (Zetterstedt, 1845)
decorata (Zetterstedt, 1852)
injusta (Zetterstedt, 1860)
ejecta (Harris, 1780)
lucorum (Fallén, 1823), preocc.
laetifica (Robineau-Desvoidy, 1830)
nivalis (Zetterstedt, 1838)
flavisquama (Zetterstedt, 1849)
basalis (Zetterstedt, 1838: 663), preocc.
fratercula (Zetterstedt, 1845)
consors (Zetterstedt, 1845)
sororia (Zetterstedt, 1845)
fulvisquama (Zetterstedt, 1845)
impuncta (Fallén, 1825)
binotata (Macquart, 1835)
punctiventris (Zetterstedt, 1845)
latitarsis Ringdahl, 1924
atrata (Zetterstedt, 1845), unavailable
laxifrons (Zetterstedt, 1860)⁷
tinctipennis (Stein, 1916)
longicornis (Zetterstedt, 1838)
luteisquama (Zetterstedt, 1845)
maculipennis (Zetterstedt, 1845)
obscuripes (Zetterstedt, 1845)
obscurata (Meigen, 1826)

- sahlbergi* (Zetterstedt, 1838)
sordidiventris (Zetterstedt, 1845)
protuberans (Zetterstedt, 1845)
exsul (Zetterstedt, 1845)
pubiseta (Zetterstedt, 1845)
quadrum (Fabricius, 1805)
dignota (Bidenkap, 1890)
reversio (Harris, 1780)
compuncta (Wiedemann, 1817)
duplicata (Meigen, 1826)
communis (Robineau-Desvoidy, 1830)
duplaris (Zetterstedt, 1845)
vilis (Zetterstedt, 1845)
flavogrisea (Zetterstedt, 1860)
setiventris Ringdahl, 1924⁸
sexmaculata (Preysler, 1791)
uliginosa (Fallén, 1825), preocc.
punctata (Robineau-Desvoidy, 1830)
flavicoxa (Zetterstedt, 1860)
spinicosta (Zetterstedt, 1845)
congenulata (Zetterstedt, 1860)
squalens (Zetterstedt, 1838)
borealis (Zetterstedt, 1838)
subvittata (Séguy, 1923)
rothi Ringdahl, 1939
marmorata: authors, not Zetterstedt
(misidentification)
trivittata (Zetterstedt, 1860)
atrides (Meade, 1889)
vetrania (Zetterstedt, 1838)
lapponica (Ringdahl, 1918)
vicina (Czerny, 1900)
suecica Ringdahl, 1924
Brontaea Kowarz, 1873
Gymnodia Robineau-Desvoidy, 1863, preocc.
humilis (Zetterstedt, 1860)
- Subfamily Mydaeinae**
Mydaea Robineau-Desvoidy, 1830
Subphaonia Ringdahl, 1934
affinis Meade, 1891
discimana Malloch, 1920
ancilla (Meigen, 1826)
anicula (Zetterstedt, 1860)
corni (Scopoli, 1763)
princeps (Harris, 1780)
pagana (Fabricius, 1794), preocc.
scutellaris Robineau-Desvoidy, 1830
deserta (Zetterstedt, 1845)
electa (Zetterstedt, 1860)
humeralis Robineau-Desvoidy, 1830
tincta (Zetterstedt, 1845)
nubila Stein, 1916
obscura (Stein, 1898), preocc.
obscurella Malloch, 1921
bengtssoni Ringdahl, 1924
orthonevra (Macquart, 1835)
detrita (Zetterstedt, 1845)
palpalis Stein, 1916
setifemur Ringdahl, 1924
- sootryeni* Ringdahl, 1928
urbana (Meigen, 1826)
rustica (Fallén, 1825), preocc.
Opsolasia Coquillett, 1910
orichalcea ((Zetterstedt, 1849)
Myospila Rondani, 1856
bimaculata (Macquart, 1834)
hennigi Gregor & Povolný, 1959
meditabunda (Fabricius, 1781)
nora (Walker, 1849)
aluta (Walker, 1849)
Hebecnema Schnabl, 1889
fumosa (Meigen, 1826)
fuscipes (Zetterstedt, 1845)
nigra Robineau-Desvoidy, 1830
halterata Ringdahl, 1941, preocc.
vespertina: authors, e.g. Hennig, not Fallén
(misidentification)
nigricolor (Fallén, 1825)
ignobilis (Zetterstedt, 1845)
olivacea (Zetterstedt, 1845)
umbratica (Meigen, 1826)
capucina (Zetterstedt, 1849)
umbrata (Storm, 1896), SYN.N.
vespertina (Fallén, 1823)
nigrita (Fallén, 1823), preocc.
affinis Malloch, 1921
Graphomya Robineau-Desvoidy, 1830⁹
Curtonevra Macquart, 1834
maculata (Scopoli, 1763)
minor Robineau-Desvoidy, 1830
picta (Zetterstedt, 1855)

Subfamily Coenosiinae

- Tribe Limnophorini**
Spilogona Schnabl, 1911
Limnaricia Schnabl & Dziedzicki, 1911
Coenosites Schnabl & Dziedzicki, 1911
Spilogooides Ringdahl, 1932
aerea (Fallén, 1825)
rotundiventris (Zetterstedt, 1845)
albisquama (Ringdahl, 1932)
alpica (Zetterstedt, 1845)
arenosa (Ringdahl, 1918)¹⁰
atrisquamula Hennig, 1959
atrisquamula (Ringdahl, 1932), preocc.
baltica (Ringdahl, 1918)
brunneifrons Ringdahl, 1931
dorsata: Ringdahl 1944b: 21, not Zetterstedt
(misidentification)
brunneisquama (Zetterstedt, 1845)
carbonella (Zetterstedt, 1845)
contractifrons (Zetterstedt, 1838)
arctica (Zetterstedt, 1838)
fumipennis (Zetterstedt, 1845)
denigrata (Meigen, 1826)
nigrinervis (Zetterstedt, 1845)
depressiuscula (Zetterstedt, 1838)
tristiola (Zetterstedt, 1838)
hardangervidensis Lavčev, 1983, SYN.N.

- depressula* (Zetterstedt, 1845)
dispar (Fallén, 1823)
 meridionalis Robineau-Desvoidy, 1830
 funeralis (Rondani, 1866)
 zetterstedtii (Schnabl, 1887)
 wilhelmi (Schnabl, 1887)
dorsata (Zetterstedt, 1845)
 frigida (Ringdahl, 1920)
falleni Pont, 1984
 litorea: authors, not Fallén (misidentification)
litorea (Fallén, 1823)
 longipes (Ringdahl, 1918)
malaisei (Ringdahl, 1920)
meadei (Schnabl, 1915)
 subalpina (Ringdahl, 1918)
 kuntzei: authors, not Schnabl
 (misidentification)
megastoma (Bohemian, 1866)
micans (Ringdahl, 1918)
nigriventris (Zetterstedt, 1845)
nitidicauda (Schnabl, 1911)
 jamlandica (Ringdahl, 1918)
norvegica (Ringdahl, 1932)
novemmaculata (Zetterstedt, 1860)
obscuripennis (Stein, 1916)
opaca (Schnabl, 1915)
 freyii (Ringdahl, 1918)
pacifica (Meigen, 1826)
 vana (Zetterstedt, 1845)
 nupta (Zetterstedt, 1860)
placida (Huckett, 1932)
 glauccella (Ringdahl, 1932)
puberula (Ringdahl, 1918)
quinquelineata (Zetterstedt, 1838)
 fulgidicauda (Schnabl, 1915)
sancitipauli (Malloch, 1921)
scutulata (Schnabl, 1911)
 munda (Tiensuui, 1936)
semiglobosa (Ringdahl, 1916)
septennnotata (Zetterstedt, 1845)
setigera (Stein, 1907)
 compuncta: authors, not Wiedemann (misidentification)
setulosa (Ringdahl, 1941)
sjostedti (Ringdahl, 1926)
sororcula (Zetterstedt, 1845)
 zetterstedtii (Ringdahl, 1918), preocc.
surda (Zetterstedt, 1845)
tenuis Hennig, 1959
tornensis (Ringdahl, 1926)
 seticosta (Ringdahl, 1920), preocc.
triangulifera (Zetterstedt, 1838)
 vitticollis (Zetterstedt, 1845)
trianguligera (Zetterstedt, 1838)
 insularis (Collin, 1921), preocc.
trigonata (Zetterstedt, 1838)
trilineata (Huckett, 1932)
tundrae (Schnabl, 1915)
 tundrica (Schnabl, 1911: 168), preocc.
 macropygia (Frey, 1915)
tundrica (Schnabl, 1911)
 unicolor (Ringdahl, 1918)
- tererrima* (Zetterstedt, 1845)
alulata (Zetterstedt, 1855)
Limnophora Robineau-Desvoidy, 1830
Melanochelia Rondani, 1866
Pseudolimnophora Strobl, 1893
Calliophrys Kowarz, 1893
 exuta (Kowarz, 1893)
nigripes (Robineau-Desvoidy, 1830)
olympiae Lyneborg, 1965
pandellei Séguy, 1923
 lindrothi Ringdahl, 1930
 orbitalis: authors, not Stein (misidentification)
riparia (Fallén, 1824)
scrupulosa (Zetterstedt, 1845)
sinuata Collin, 1930
 islandica Lyneborg, 1965
tigrina (Am Stein, 1860)
 notata (Fallén, 1823), preocc.
triangula (Fallén, 1825)
uniseta Stein, 1916
Lispe Latreille, 1796
litorea Fallén, 1825
pygmaea Fallén, 1825¹¹
 tenuipalpis Stenhammar, 1846
 lacteipalpis (Zetterstedt, 1849)
tentaculata (De Geer, 1776)
uliginosa Fallén, 1825
- Tribe Coenosiiini
- Pseudocoenosia* Stein, 1916
Paracoenosia Ringdahl, 1945, preocc.
Coenosiosoma Ringdahl, 1947
 abnormis Stein, 1916
solitaria (Zetterstedt, 1838)
 longisquama (Zetterstedt, 1845)
 longicauda (Zetterstedt, 1860)
Limnospila Schnabl, 1902
 albifrons (Zetterstedt, 1849)
Caricea Robineau-Desvoidy, 1830
Lispocephala Pokorny, 1893
 alma (Meigen, 1826)
erythroceria Robineau-Desvoidy, 1830
 troglodytes (Zetterstedt, 1838)
 lacteipennis (Zetterstedt, 1845)
pallipalpis (Zetterstedt, 1845)
spuria (Zetterstedt, 1838)
 vitripennis (Ringdahl, 1951)
verna (Fabricius, 1794)
Schoenomyza Haliday, 1833
 litorella (Fallén, 1823)
Macrorchis Rondani, 1877
 meditata (Fallén, 1825)
Dexiopsis Pokorny, 1893
 lacteipennis (Zetterstedt, 1845)
 minutalis (Zetterstedt, 1860)
 ruficornis (Macquart, 1835)¹²
 litoralis (Zetterstedt, 1846)
 pallicornis (Zetterstedt, 1846)
Coenosia Meigen, 1826
Limosia Robineau-Desvoidy, 1830
Oplogaster Rondani, 1856
Allognota Pokorny, 1893

- Lamprocoenosia* Ringdahl, 1945
Leucocoenosia Ringdahl, 1945
Xanthorrhinia Ringdahl, 1945
Caricea: authors, not Robineau-Desvoidy
 (misidentification)
acuminata Strobl, 1898
annulipes Ringdahl, 1932, preocc.
albicornis Meigen, 1826
lineatipes (Zetterstedt, 1845)¹³
ambulans Meigen, 1826
bilineella (Zetterstedt, 1838)
tarsella (Zetterstedt, 1838)
campestris (Robineau-Desvoidy, 1830)¹⁴
sexnotata: authors, not Meigen
 (misidentification)
cingulipes (Zetterstedt, 1849)
dealbata (Zetterstedt, 1838)
fulvicornis (Zetterstedt, 1845)
orbicornis Stein, 1916
femoralis (Robineau-Desvoidy, 1830)
geniculata (Fallén, 1825), preocc.
flaviseta Huckett, 1965¹⁵
graciliventris Ringdahl, 1954¹⁶
humilis Meigen, 1826
nana (Zetterstedt, 1845)
intermedia (Fallén, 1825)
means Meigen, 1826
articulata (Zetterstedt, 1845)
mollicula (Fallén, 1825)
biocellata (Zetterstedt, 1845)
octopunctata (Zetterstedt, 1838)
apicalis (Zetterstedt, 1845)
pedella (Fallén, 1825)
decipiens Meigen, 1826
perpusilla Meigen, 1826
pudorosa Collin, 1953
pulicaria (Zetterstedt, 1845)
mucronatella (Zetterstedt, 1845)
pumila (Fallén, 1825)
pygmaea (Zetterstedt, 1845)
nigrifemur (Zetterstedt, 1845)
rufipalpis Meigen, 1826
flavicauda Ringdahl, 1932
testacea (Robineau-Desvoidy, 1830)
tricolor (Zetterstedt, 1846)
alleni d'Assis Fonseca, 1966
tigrina (Fabricius, 1775)
trilineella (Zetterstedt, 1838)
verralli Collin, 1953

Annotations

- (1) *Thricops albibasalis* (Zett.) Not seen. Holotype ♂ from Norway.
 (2) *Hydrotaea glabricula* (Fall.). I have examined the female from «...Nordlandiae ad Björkvik...» referred to by Zetterstedt (1838, 1845). It fits Hennig's (1962) concept of *glabricula*. Zetterstedt (1838, 1845) also refers to a specimen from Bossekop, which I have also examined. It is a female *Fannia* species.

- (3) *Phaonia gobertii* (Mik). Two males have been available. Both have the prosternum bare and ST1 hairy.
 (4) *Lophosceles cinereiventris* (Zett.). No Norwegian material seen. A male from Alta (Finnmark) is present in the CNC (Ottawa) according to A.C. Pont (pers.comm.).
 (5) *Helina loekena* Lavčev. The holotype clearly belongs to *bohemani* Ringdahl. The main diagnostic feature used by Lavčev (1983) concerns the length of the aristal hairs. He appears to rely on Hennig's (1957) description of *bohemani*, which, however, is erroneous as to this particular feature. Hennig, who did not know *bohemani* at first hand, miscites Snyder (1949: 133) as regards the length of the aristal hairs.
 (6) *Helina ciliata* Karl. A species of obscure status. To me it appears to be only a dark form of *quadrum*.
 (7) *Helina laxifrons* (Zett.). Not seen. Included on basis of the record in Snyder (1949: 124).
 (8) *Helina setiventris* Ringdahl. Note deleted.
 (9) *Graphomya* Rob.-Desv. The genus is in need of revision in the Palaearctic region. Norwegian material fits Zimin's (as rendered by Hennig 1959) var.a, var.b, var.c and var.e *maculata* (Scop.) appears to be var.a of Zimin. *minor* (Rob.-Desv.) may be var.e of Zimin. I have examined all available Danish material. It belongs to var.a (*maculata*) and var.e (not var.b as given by Michelsen 1977). British material is also var.a and var.e (A.C. Pont pers. comm.).
 (10) *Spilogona arenosa* (Ringdahl). Not seen. Included on the basis of record in Dahl (1968: 26).
 (11) *Lispe pygmaea* Fallén. Not seen. Included on the basis of record in Ardö (1957: 153).
 (12) *Dexiopsis ruficornis* (Macquart). Not seen. Included on the basis of record in Ardö (1957: 154, as *pallicornis*).
 (13) *Coenosia albicornis* Meigen. I have only seen the female syntype of *lineatipes* Zetterstedt, 1845: 1676 (*Anthomyza*) taken at Alstahaug 8 July 1840.
 (14) *Coenosia campestris* (Rob.-Desv.). Not seen. Included on the basis of records in Zetterstedt (1838: 694, 1845: 1718, 1855: 4745) and Ringdahl (1928, 1952) (all as *sexnotata*). A male specimen which may belong to this species is present in the Siebke collection in the Oslo museum.
 (15) *Coenosia flaviseta* Huckett. A female specimen is present in the Tromsø collection taken by Soot-Ryen at Karasjok 9 Aug. 1924 (Finnmark, FI) (EIS 167). This is the first record from the Palaearctic Region. I have compared it with several specimens in the CNC (Ottawa), and A.C. Pont has examined it and agrees with my identification.
 (16) *Coenosia graciliventris* Ringdahl. Not seen. The syntypic series was taken at Vågåmo (ON, Vågå) (EIS 71) 11 July 1953 (Ringdahl 1954b).

Species excluded from the Norwegian list

Pyrellia rapax (Harris, 1780). Recorded from Norway by Hennig (1963, as *ignita*) probably because of some misunderstanding. See Rognes (1979: 52) on this matter.

Pyrellia vivida Robineau-Desvoidy, 1830. Recorded with some hesitation by Ringdahl (1928) from Norway (as *cadaverina*). See also Rognes (1979) on this matter. The specimen on which Ringdahl's record was based has been traced in the Tromsø collection. It carries a label with «*Pyrellia cadaverina L.*?» in Ringdahl's hand. It is a female specimen of *Eudasyphora cyanicolor* (Zetterstedt).

Helina obtusipennis (Fallén, 1823). Recorded by Zetterstedt (1838: 666) from «*Björkvik Nordlandiae*» and by Zetterstedt (1845: 1425) also from «*Næs Verdalæ*». I have examined the latter specimen which is a female *Helina celsa* (Harris).

Spilogona marginifera Hennig, 1959. Recorded from Norway («...ad radicem alpium Kälahögar...specimen unicum...lectum») by Zetterstedt (1845: 1515–1516, as *Aricia marginalis*). No corresponding specimen could be traced in Zetterstedt's collections in Museum of Zoology, Lund (personal visit May 1984).

ACKNOWLEDGEMENTS

Many thanks are due to L. Greve Jensen, Museum of Zoology, Bergen, J.E. Raastad, Museum of Zoology, Oslo, and A. Fjellberg, Tromsø Museum, for having made the collections of calypterate Diptera in their care available to me; to A.C. Pont, London, for most generously having put the ms copy of his Muscidae contribution to the Catalogue of Palaearctic Diptera at my disposal, and for having checked a number of my identifications; to R. Daniellson, Lund, V. Michelsen, Copenhagen, A.C. Pont, London, B. Sagvolden, H. Schumann, Berlin, J.H. Simonsen, and J.R. Vockeroth, Ottawa, for loan of material; and to T. Jonassen, F. Midtgåard, T.R. Nielsen, A.-J. Nilsen, J.H. Simonsen, S. Svendsen and J.R. Vockeroth for gift of precious material. The grant from Stavanger Lærerhøgskole 1982–1983 is gratefully acknowledged.

REFERENCES

- Ardö, P. 1957. Studies in the marine shore dune ecosystem with special reference to the dipterous fauna. *Opusc. ent. Suppl.* 14, 255 pp.
- Bidenkap, O. 1892. Undersøgelser over Diptera Brachycera i Jarlsberg og Laurvigs amt sommeren 1891. *Ent. Tiskr.* 13, 225–246.
- 1898. Diptera Brachycera fra Jarlsberg. *Tromsø Mus. Aarsh.* 19 (1896), 147–150.
- 1901. Foreløbig oversigt over de i det arktiske Norge hidtil bemærkede Diptera Brachycera. *Tromsø Mus. Aarsh.* 23 (1900), 13–112.
- Dahl, R. 1968. Studies on the Diptera Brachycera fauna of the sea shores in North Norway. *Norsk ent. Tidsskr.* 15, 19–27.
- Fonseca, E.C.M. d'Assis 1968. Diptera Cyclorrhapha Calyptrata. Section (b) Muscidae. *Handb. Ident. Br. Insects* 10 (4) (b), 1–119.
- Hackman, W. 1980. A check list of the Finnish Ciptera. II. Cyclorrhapha. *Notul. Ent.* 60, 117–162.
- Hennig, W. 1955–1964. 63b. Muscidae. — In: Lindner, E. (ed.), *Die Fliegen der Palaearktischen Region* 7 (2), 1–1110.
- Huckett, H.C. 1965. The Muscidae of Northern Canada, Alaska and Greenland (Diptera). *Mem. ent. Soc. Can.* 42, 369 pp.
- Lavčev, V. 1983. Neue Muscidenarten aus Norwegen: *Helina loekena* n.sp. und *Spilogona harangervidensis* n.sp. (Diptera: Muscidae). *Ent. scand.* 14, 101–106.
- Michelsen, V. 1977. Oversigt over Danmarks Muscidae (Diptera). *Ent. Meddr* 45, 109–163.
- Pont, A.C. 1971. Some Muscidae (Diptera) from Lake Tarraure, Lule Lappmark, Sweden, with notes on collecting in other parts of Scandinavia. *Ent. Tidsskr.* 92, 100–122.
- 1975. 85. Muscidae. — In: Kloet, G.S. & Hincks, W.D. (eds.), A check list of British Insects. Second edition. Part 5: Diptera and Siphonaptera. *Handb. Ident. Br. Insects* 9 (5), 114–119.
- Ringdahl, O. 1928. Beiträge zur Kenntnis der Anthomyidenfauna des nördlichen Norwegens. *Tromsø Mus. Aarsh.* 49 (1926), (3), 1–60.
- 1939. Diptera der Fam. Muscidae, (die Gattungen Aricia und Anthomyza) von Zetterstedt in «Insecta Lapponica» und «Diptera Scandinaviae» beschrieben. *Opusc. ent.* 4, 137–159.
- 1944a. Revision av Vilhelm Storms Dittersamling 2. Familjen Muscidae. *K. norske Vidensk. Selsk. Forh.* 17 (20), 82–85.
- 1944b. Contributions to the knowledge of the tachinids and muscids of Norway. *Tromsø Mus. Aarsh.* 65 (1942), (4), 1–27.
- 1952. Catalogus Insectorum Sueciae XI Diptera Cyclorrhapha: Muscaria Schizometopa. *Opusc. ent.* 17, 129–186.
- 1954a. Nya fyndorter för norska Diptera. *Norsk ent. Tidsskr.* 9, 46–54.
- 1954b. Dipterologiske Notiser 14. Eine neue *Coenosia* (Dipt. Muscidae) aus Norwegen. *Opusc. ent.* 19, 217.
- 1954c. Tvåvingar. Diptera Cyclorapha Schizophora Schizometopa. 1. Fam. Muscidae. Häfte 1. *Svensk Insektafauna* 11, 0–91.
- 1956. Tvåvingar. Diptera Cyclorapha Schizophora Schizometopa. 1. Fam. Muscidae. Häfte 2. *Svensk Insektafauna* 11, 91–195.
- Rognes, K. 1979. Revision of the Norwegian material of the genus *Dasyphora* Robineau-Desvoidy (Diptera, Muscidae) with new records of species and localities. *Fauna norv. Ser. B*, 26, 49–58.

- 1982. Some interesting captures of Muscidae (Dipt.) from Norway. *Fauna norv. Ser. B*, 29, 40—44.
- 1983a. Some Diptera (Tachinidae, Calliphoridae, Fanniidae, Muscidae) from the mountains of the Finse area, Southern Norway. *Fauna norv. Ser. B*, 30, 25—33.
- 1983b. Additions to the Norwegian fauna of calyptrate Diptera (Tachinidae, Calliphoridae, Muscidae). *Fauna norv. Ser. B*, 30, 88—93.
- Schøyen, W.M. 1889. Supplement til H. Siebke's *Enumeratio Insectorum Norvegicorum*, Fasc. IV. (Diptera). *Christiania Vidensk. Selsk. Forh.* 1889 (12), 1—15.
- 1895. Et bidrag til «Gravene faun». *Ent. Tidskr.* 16, 121—124.
- Siebke, J.H.S. 1877. *Enumeratio Insectorum Norvegicorum Fasciculum IV. Catalogum Dipterorum Continentem*. A.W. Brøgger, Christiania (= Oslo), 255 pp.
- Snyder, F.M. 1949. Nearctic *Helina Robineau-Desvoidy* (Diptera, Muscidae). *Bull. Am. Mus. nat. Hist.* 94, 107—160.
- Soot-Ryen, T. 1943. A review of the literature on Norwegian Diptera until the year 1940. *Tromsø Mus. Aarsh.* 65 (1942), (3), 1—46.
- Storm, V. 1896. Dipterologiske undersøgelser. *K. norske Vidensk. Selsk. Skr.* 1895, 225—241.
- Zetterstedt, J.W. 1838. Sectio tertia Diptera. Pp. 477—868, in his *Insecta Lapponica*, vi + 1140 pp. Lipsiae (= Leipzig), «1840».
- 1845. *Diptera Scandinaviae disposita et descripta*. 4, 1281—1738.
- 1855. *Diptera Scandinaviae disposita et descripta*. 12, 4547—4942.

Received 17 Aug. 1984