

Memoirs
on
Entomology, International
Volume 18, 2004

**CATALOGUE OF THE TACHINIDAE (DIPTERA)
OF AMERICA NORTH OF MEXICO**

By
JAMES E. O'HARA
&
D. MONTY WOOD

Associated Publishers
2004

Genus MYSTACOMYIA Giglio-Tos, 1893

MYSTACOMYIA Giglio-Tos, 1893b: 4. Type species: *Mystacella rubriventris* van der Wulp, 1890, by original designation [Neotropical].

MILONIUS Reinhard, 1955d: 127. Type species: *Milonius scordalus* Reinhard, 1955, by original designation.

References: Coquillett, 1910b: 573 (type species of *Mystacomyia*); Townsend, 1936b: 214 (diagnosis of adults and immatures of Masiphyini, including *Mystacomyia*); Townsend, 1941: 167 (redescription of *Mystacomyia*); Wood, 1987b: 1211 (*Milonius* as synonym of *Mystacomyia*); O'Hara & Wood, 1998: 756, 763 (synonymy and new combination of Wood, 1987b).

scordala (Reinhard, 1955).— Mexico, Texas (S&A, 1965).

Milonius scordalus Reinhard, 1955d: 127. Type data: holotype male (CNC). Type locality: USA, Texas, Dilley.

Reference: Cooper & O'Hara, 1996: 51 (holotype data).

Tribe WINTHEMIINI

References: Townsend, 1913a: 52 (use of Winthemiinae as a family-group name); Guimarães, 1972: 41 (diagnosis of Winthemiini); Tschorsnig, 1985: 73 (male postabdomen of Winthemiini); Shima, 1996: 169 (revision of Winthemiini of Japan); Ziegler, 1998: 137 (puparia and cephalopharyngeal skeleton of third instars of Winthemiini).

Genus CHESIPPUS Reinhard, 1967

CHESIPPUS Reinhard, 1967a: 107. Type species: *Chesippus notialis* Reinhard, 1967, by original designation.

notialis Reinhard, 1967.— Arizona (Reinhard, 1967).

Chesippus notialis Reinhard, 1967a: 107. Type data: holotype male (CNC). Type locality: USA, Arizona, Santa Rita Mountains.

Reference: Cooper & O'Hara, 1996: 24 (holotype data).

Genus DIOTREPHESS Reinhard, 1964

DIOTREPHESS Reinhard, 1964a: 7. Type species: *DiotrepheSS formosus* Reinhard, 1964, by original designation [Neotropical].

Reference: O'Hara & Wood, 1998: 760 (new combination of Wood, 1987b).

atriventris (Walker, 1853).— Maryland (O'Hara & Wood, 1998), New Jersey (USNM), South Carolina, Florida (FSCA).

Tachina atriventris Walker, 1853: 290. Type data: holotype male (BMNH). Type locality: North America (not "Madras or Bombay" as published).

References: Austen, 1907: 330 (type notes); Crosskey, 1976: 226 (as Oriental species of *Timavia* R.-D., though India questioned as country of origin); Wood, 1987b: 1206 (new record for America north of Mexico); O'Hara & Wood, 1998: 760, 768 (new combination of Wood, 1987b, distribution record).

Genus HEMISTURMIA Townsend, 1927

HEMISTURMIA Townsend, 1927: 262 (as *Humisturmia*, in error; see p. 316 for correct spelling). Type species: *Hemisturmia carcelioides* Townsend, 1927, by original designation [Neotropical].

PSEUDOLOMYIA Reinhard, 1962a: 175. Type species: *Pseudolomyia scissilis* Reinhard, 1962, by original designation.

References: Townsend, 1936b: 190 (diagnosis of adults and immatures of *Sturmiini*, including *Hemisturmia*); Thompson, 1963c: 988 (revision of Trinidad *Hemisturmia*); Wood, 1987b: 1206 (*Pseudolomyia* as synonym of *Hemisturmia*); O'Hara & Wood, 1998: 757, 762 (synonymy and new combination of Wood, 1987b).

parva (Bigot, 1889).— British Columbia to Vermont, south to California, Mexico, Mississippi, and New Jersey (S&A, 1965), Québec, District of Columbia, Florida (CNC), West Virginia (WVU).

Phorocera parva Bigot, 1889: 260. Type data: holotype male [not female as published] (BMNH). Type locality: “Rocky Mountains.”

Phorocera tortricis Coquillett, 1897: 103. Type data: holotype male (USNM). Type locality: USA, Missouri.

References: Coquillett, 1897: 103 (*erecta* Coquillett in key to species of *Phorocera* Robineau-Desvoidy, misidentified as *parva*); Greene, 1922: 28 (puparium of *tortricis*); Aldrich & Webber, 1924a: 46, 76 (*tortricis* in key to species of *Phorocera* Robineau-Desvoidy, redescription); Curran, 1930b: 108 (*tortricis* in key to species of *Phorocera* Robineau-Desvoidy in New York state); Ross, 1952: 111 (*tortricis* in key to puparia of parasites of spruce budworm); Thompson, 1953a: 19 (*tortricis* in key to tachinid parasitoids of *Archips cerasivorana*); Coppel, 1960: 97 (*tortricis* in key to parasitoids of spruce budworm); Sabrosky & Arnaud, 1965: 1088, 1108 (*tortricis* moved to *Hemisturmia*, *parva* as unplaced species of Tachinidae); Finlayson, 1967: 1236, 1265 (third instar of *tortricis* in key to parasitoids of *Acrobasis* species, taxonomic notes); Wood in O'Hara & Wood, 1998: 772 (*parva* moved to *Hemisturmia*, with *tortricis* in synonymy).

scissilis (Reinhard, 1962).— Arizona, Texas, Ohio (S&A, 1965), Maryland (CNC).

Pseudolomyia scissilis Reinhard, 1962a: 176. Type data: holotype male (CNC). Type locality: USA, Ohio, Amherst.

Reference: Cooper & O'Hara, 1996: 66 (holotype data).

Genus NEMORILLA Rondani, 1856

NEMORILLA Rondani, 1856: 66. Type species: *Tachina maculosa* Meigen, 1824, by original designation [Palearctic].

References: Coquillett, 1897: 91 (key to species of *Exorista* Meigen, with *Nemorilla* in synonymy); Townsend, 1908: 97 (taxonomic notes); Aldrich & Webber, 1924a: 4 (revision); Townsend, 1936b: 190 (diagnosis of adults and immatures of *Sturmiini*, including *Nemorilla*); Townsend, 1941: 110 (redescription); Mesnil, 1949b: 77 (revision of Palearctic species); Thompson, 1963c: 984 (revision of Trinidad *Nemorilla*); Shima, 1996: 219 (revision of Japanese species); Sabrosky, 1999: 212 (family-group name data, taxonomic note).

insolens Aldrich & Webber, 1924.— Ohio, Massachusetts, Connecticut, Rhode Island, North Carolina (S&A, 1965), Tennessee, New Jersey (CNC), Minnesota (DEH).

Nemorilla insolens Aldrich & Webber, 1924a: 6. Type data: holotype male (USNM). Type locality: USA, Massachusetts, Melrose Highlands.

parva (Coquillett, 1897).— Colorado (S&A, 1965).

Exorista parva Coquillett, 1897: 100. Type data: holotype female (USNM). Type locality: USA, Colorado.

Reference: Aldrich & Webber, 1924a: 5, 6 (in key to species of *Nemorilla*, redescription).

pyste (Walker, 1849).— British Columbia to Nova Scotia, all United States, Mexico (Sabrosky & Reardon, 1976), Newfoundland (CNC).

Tachina pyste Walker, 1849: 754. Type data: holotype female (BMNH). Type locality: Canada, Nova Scotia.

Tachina (Exorista) phycitae LeBaron, 1872: 123. Type data: syntypes, unknown number of males and 1 female (whereabouts unknown). Type locality: USA, Illinois. Type host: *Acrobasis indigenella* (Zeller) [published as *Phycita nebulo* Walsh], Pyralidae.

Exorista scudderi Williston, 1889: 1921. Type data: holotype male (MCZ). Type locality: USA, Texas. Type host: *Euristrymon ontario autolytus* (Edwards) [published as *Thecla autolytus*], Lycaenidae.

References: Riley, 1872: 40 (LeBaron's description of *phycitae* reprinted); Townsend, 1896: 330 (*scudderi* and *phycitae* in key to species of *Exorista* Meigen); Coquillett, 1897: 93 (*pyste* in key to species of *Exorista* Meigen, with *phycitae* and *scudderi* in synonymy); Reinhard, 1919: 281 (taxonomic notes on *pyste*); Greene, 1922: 19 (puparium of *pyste*); Aldrich & Webber, 1924a: 5 (*pyste* in key to species of *Nemorilla*, misidentified as *Tachina maculosa* Meigen (not Nearctic); redescription); Aldrich, 1931a: 10 (type notes on *pyste*); Baker et al., 1949: 159 (posterior spiracles of puparium of *pyste*, misidentified as *maculosa* Meigen and *floralis* Fallén); Ross, 1952: 110 (*pyste* in key to puparia of parasites of spruce budworm); Thompson, 1953a: 20 (*pyste* in key to tachinid parasitoids of *Archips cerasivorana*); Coppel, 1960: 97 (*pyste* in key to parasitoids of spruce budworm); Thompson, 1963c: 984, 986 (redescription, egg and first instar); Finlayson, 1967: 1236, 1265 (third instar of *pyste* in key to parasitoids of *Acrobasis* species, taxonomic notes); Danks, 1974: 1281 (egg of *pyste*); Sabrosky & Reardon, 1976: 60 (*pyste* in key to tachinids of gypsy moth, redescription, puparium); Simons et al., 1979: 8, 18 (*pyste* in key to tachinids of gypsy moth, in key to puparia).

Genus ORASTURMIA Reinhard, 1947

ORASTURMIA Reinhard, 1947: 21. Type species: *Orasturmia vallicola* Reinhard, 1947, by original designation.

ANGUSTIOPSIS Reinhard, 1959b: 231. Type species: *Angustiopsis saginata* Reinhard, 1959 (= *Orasturmia vallicola* Reinhard, 1947), by original designation.

References: Wood, 1987b: 1206 (*Angustiopsis* as synonym of *Orasturmia*); O'Hara & Wood, 1998: 753, 757 (synonymy of Wood, 1987b).

vallicola Reinhard, 1947.— Texas (S&A, 1965), Arizona, Maryland (CNC).

Orasturmia vallicola Reinhard, 1947: 22. Type data: holotype male (CNC). Type locality: USA, Texas, Brownsville.

Angustiopsis saginata Reinhard, 1959b: 231. Type data: holotype male (CNC). Type locality: USA, Texas, Presidio County.

References: Wood, 1987b: 1206 (*saginata* as synonym of *vallicola*); Cooper & O'Hara, 1996: 14, 56 (holotype data for *saginata* and *vallicola*); O'Hara & Wood, 1998: 757 (synonymy of Wood, 1987b).

Genus SMIDTIA Robineau-Desvoidy, 1830

SMIDTIA Robineau-Desvoidy, 1830: 183. Type species: *Smidtia vernalis* Robineau-Desvoidy, 1830 (= *Tachina conspersa* Meigen, 1824), by subsequent designation of Desmarest, 1848: 649 (see Evenhuis & Thompson, 1990: 238) [Palearctic].

TIMAVIA Robineau-Desvoidy, 1863a: 257. Type species: *Smidtia flavipalpis* Robineau-Desvoidy, 1848 (= *Tachina amoena* Meigen, 1824), by original designation [Palearctic].

OMOTOMA Lioy, 1864: 1338 (also subsequently spelled *Homotoma*, unjustified emendation). Type species: *Tachina amoena* Meigen, 1824, by subsequent designation of Townsend, 1916e: 8 [Palearctic].

NEMOSTURMIA Townsend, 1926: 34. Type species: *Nemosturmia pilosa* Townsend, 1926 (= *Winthemia fumiferanae* Tothill, 1912), by original designation.

References: Aldrich, 1927a: 24 (synonymy of *Nemosturmia*); Townsend, 1936b: 115, 190, 278 (*Smidtia* and *Timavia* omitted from Phoroceratini; diagnosis of adults and immatures of Sturmiini, including *Omotoma*; *Nemosturmia* as synonym of *Omotoma*); Townsend, 1940: 155 (redescription of *Timavia*); Townsend, 1941: 115 (redescription of *Omotoma*, with *Nemosturmia* in synonymy); Mesnil, 1949b: 72, 73 (revision of Palearctic *Smidtia*, revision of Palearctic *Nemosturmia* with "*Homotoma*" in synonymy); Herting, 1974a: 8, 9 (*Omotoma* as synonym of *Timavia*, taxonomic notes on *Smidtia*); Mesnil, 1975: 1389 (taxonomic notes on *Timavia*); Wood, 1987b: 1206 (*Timavia* as subgenus of *Winthemia* Robineau-Desvoidy, with *Nemosturmia* and *Omotoma* in synonymy); Evenhuis & Thompson, 1990: 238 (type species of *Smidtia*); Shima, 1996: 174 (*Timavia*, *Omotoma* and *Nemosturmia* as synonyms of *Smidtia*, revision of Japanese *Smidtia*); O'Hara & Wood, 1998: 756, 757, 768 (synonymy and new combinations of Wood, 1987b).

fumiferanae (Tothill, 1912).— British Columbia to Newfoundland, south to Arizona and Georgia (S&A, 1965), Yukon, Northwest Territories (CNC).

Winthemia fumiferanae Tothill, 1912: 2. Type data: holotype female (CNC). Type locality: Canada, British Columbia, Duncan. Type host: *Choristoneura fumiferana* (Clemens) [published as *Tortrix fumiferana*], Tortricidae.

Nemosturmia pilosa Townsend, 1926: 35. Type data: holotype female (USNM). Type locality: USA, New Hampshire, Franconia.

References: Aldrich, 1927a: 24 (synonymy); Reinhard, 1931c: 5, 12 (*fumiferanae* in key to species of *Winthemia*, redescription); Townsend, 1936b: 203, 280 (taxonomic notes on *pilosa* and *fumiferanae*; *pilosa* as synonym of *fumiferanae*); Ross, 1952: 111 (*fumiferanae* in key to puparia of parasites of spruce budworm); Coppel & Smith, 1957: 581 (immature stages of *fumiferanae*); Coppel, 1960: 97 (*fumiferanae* in key to parasitoids of spruce budworm); Tilles & Woodley, 1984: 14, 16, 25 (*fumiferanae* in key to parasites of spruce budworm in Maine, puparium, taxonomic notes); Cooper & O'Hara, 1996: 77 (holotype data for *fumiferanae*).

Genus WINTHEMIA Robineau-Desvoidy, 1830

WINTHEMIA Robineau-Desvoidy, 1830: 173 (also subsequently spelled *Winthemya*, in error). Type species: *Musca quadripustulata* Fabricius, 1794, by subsequent designation of Desmarest, 1849b: 301 (see Evenhuis & Thompson, 1990: 239).

TRISISYROPA Townsend, 1916f: 28. Type species: *Trisisyropa vesiculata* Townsend, 1916, by original designation.

OKEA Townsend, 1916h: 74. Type species: *Winthemia okefenokeensis* Smith, 1916, by

original designation.

NEOWINTHEMIA Townsend, 1919c: 583. Type species: *Neowinthemia abdominalis* Townsend, 1919, by original designation.

References: Coquillett, 1897: 125 (key to species of *Winthemia*); Coquillett, 1910b: 620 (type species of *Winthemia*); Tothill, 1912: 1 (key to species of *Winthemia*); Reinhard, 1931c: 1 (revision of *Winthemia*); Aldrich, 1934: 43 (synonymy under *Winthemia*); Townsend, 1936b: 190 (diagnosis of adults and immatures of Sturmiini, including *Neowinthemia*, *Winthemia*, *Trisisyropa* and *Okea*); Townsend, 1941: 113, 114, 135, 138 (redescriptions of *Neowinthemia*, *Okea*, *Trisisyropa* and *Winthemia*); Mesnil, 1949b: 79 (revision of Palearctic *Winthemia*, with *Okea* in synonymy); Thompson, 1963c: 960 (revision of Trinidad *Winthemia*, synonymy); Guimarães, 1972: 27 (revision of *Winthemia*); Sabrosky, 1973: 1035 (key to *Winthemia* females, taxonomic notes); Herting, 1974a: 7 (taxonomic notes on *Winthemia*); Herting, 1984: 186 (note 29, type species of *Winthemia*); Wood, 1987b: 1206 (*Timavia* Robineau-Desvoidy as subgenus of *Winthemia*); Evenhuis & Thompson, 1990: 239 (type species of *Winthemia*); Shima, 1996: 195 (revision of Japanese *Winthemia*); O'Hara & Wood, 1998: 756, 757, 768 (synonymy and new combinations of Wood, 1987b); Sabrosky, 1999: 321 (family-group name based on *Winthemia*, note on type species); O'Hara, 1999: 12, 25 (*Winthemia* in key to tachinids of bertha armyworm, recognition).

abdominalis (Townsend, 1919).— Ohio, Pennsylvania, Connecticut, Virginia, Georgia (Guimarães, 1972), New York (Guimarães, 1972, as *sabroskyi*), Ontario, Maryland (CNC), West Virginia (USNM).

Neowinthemia abdominalis Townsend, 1919c: 583. Type data: holotype male (USNM). Type locality: USA, Virginia, Dixie Landing.

Winthemia sabroskyi Guimarães, 1972: 90. Type data: holotype female (USNM). Type locality: USA, Georgia, Blood Mountains. **New synonymy.**

References: Reinhard, 1931c: 6, 23 (*abdominalis* in key to species of *Winthemia*, redescription); Guimarães, 1972: 44, 48 (*abdominalis* in key to species of *Winthemia*, redescription); Sabrosky, 1973: 1035, 1037, 1040 (*sabroskyi* in key to species of *Winthemia*, taxonomic notes, *sabroskyi* as a possible synonym of *abdominalis*).

andersoni Guimarães, 1972.— California, Arizona (Guimarães, 1972).

Winthemia andersoni Guimarães, 1972: 50. Type data: holotype male (CNC). Type locality: USA, California, Napa County, Samuel Spring.

References: Sabrosky, 1973: 1035, 1037 (in key to species of *Winthemia*, taxonomic notes); Cooper & O'Hara, 1996: 77 (holotype data).

antennalis Coquillett, 1902.— California, New Mexico (Guimarães, 1972), Idaho, Arizona, Texas, Massachusetts, Connecticut, Maryland, South Carolina, Florida (CNC).

Winthemia antennalis Coquillett, 1902b: 115. Type data: holotype female (USNM). Type locality: USA, California, Los Angeles County.

References: Coquillett, 1897: 125 (in key to species of *Winthemia* Robineau-Desvoidy, misidentified as *nigrifacies* Bigot (an unplaced species of Tachinidae)); Tothill, 1912: 2 (in key to species *Winthemia*); Reinhard, 1931c: 5, 10 (in key to species of *Winthemia*, redescription).

aurifrons Guimarães, 1972.— British Columbia, Alberta, California, New Mexico, Ontario (Guimarães, 1972) [Ontario in error], Arizona (CNC).

Winthemia aurifrons Guimarães, 1972: 52. Type data: holotype male (CAS). Type locality: USA, California, Yolo County, 5 miles east of Woodland. Type host: *Smerinthus cerisyi* Kirby, Spingidae.

References: Sabrosky, 1973: 1036, 1037 (in key to species of *Winthemia*, taxonomic notes, description of female); Arnaud, 1979: 406 (holotype data).

borealis Reinhard, 1931.— British Columbia, Oregon, Alberta, Manitoba, Wisconsin, Ontario, Québec, Nova Scotia (Guimarães, 1972), New Brunswick (CNC).

Winthemia borealis Reinhard, 1931c: 27. Type data: holotype male (AMNH). Type locality: Canada, Manitoba, Transcona.

Winthemia intonsa Reinhard, 1931c: 28. Type data: holotype female (USNM). Type locality: Canada, British Columbia, Kaslo. **New synonymy.**

References: Townsend, 1936b: 203 (taxonomic notes on *intonsa*); Townsend, 1941: 135 (*intonsa* as synonym of *platysamiae* Townsend); Arnaud, 1963c: 131 (holotype data for *borealis*); Guimarães, 1972: 44, 46, 54, 69 (*borealis* and *intonsa* in key to species of *Winthemia*, redescriptions); Sabrosky, 1973: 1036, 1038, 1039 (*borealis* and *intonsa* in key to species of *Winthemia*, with *intonsa* as probable synonym of *borealis*).

cecropia (Riley, 1870).— California, Alberta, Kansas, Iowa, Wisconsin, Illinois, Michigan, Ohio, Ontario, New York, Connecticut (Guimarães, 1972), Québec, Pennsylvania (CNC).

Exorista cecropia Riley, 1870a: 101 (proposed as a variety of *militaris* Walsh). Type data: syntypes, number and sex unknown [adults obtained from “a host of maggots”] (1 male syntype in USNM; this specimen named holotype of *Winthemia cecropiae* by Reinhard, 1931c: 34). Type locality: USA, Illinois, Rockford. Type host: *Hyalophora cecropia* (Linnaeus) [published as *Platysamia cecropia*], Saturniidae.

Exorista platysamiae Townsend, 1892c: 288. Type data: holotype female (apparently lost according to Reinhard, 1931c: 54; not in SEMK). Type locality: USA, New York, Ithaca. Type host: *Hyalophora cecropia* (Linnaeus) [published as *Platysamia cecropia*], Saturniidae.

Winthemia cecropiae Reinhard, 1931c: 34. Type data: holotype male (USNM) (this specimen part of type series of *cecropia* Riley). Type locality: USA, Illinois, Rockford. Type host: *Hyalophora cecropia* (Linnaeus) [published as *Platysamia cecropia*], Saturniidae.

References: Townsend, 1896: 330 (*platysamiae* in key to species of *Exorista* Meigen); Coquillett, 1897: 125 (*quadripustulata* Fabricius in key to species of *Winthemia*, with *cecropiae* Riley and *platysamiae* in synonymy); Reinhard, 1931c: 54 (taxonomic notes on *platysamiae*); Townsend, 1936b: 203 (synonymy); Townsend, 1941: 135 (*cecropiae* and *intonsa* Reinhard as synonyms of *platysamiae*); Sabrosky, 1948: 63 (taxonomic notes on *cecropia*); Guimarães, 1972: 44, 55 (*cecropia* in key to species of *Winthemia*, redescription); Sabrosky, 1973: 1038 (*cecropia* in key to species of *Winthemia*, taxonomic notes).

citheroniae Sabrosky, 1948.— Ontario, Illinois, Maryland, Florida (Guimarães, 1972), Québec (CNC).

Winthemia citheroniae Sabrosky, 1948: 65. Type data: holotype male (USNM). Type locality: USA, Florida, Gainesville. Type host: *Citheronia regalis* (Fabricius), Saturniidae.

References: Guimarães, 1972: 46, 57 (in key to species of *Winthemia*, redescription); Sabrosky, 1973: 1036, 1038 (in key to species of *Winthemia*, taxonomic notes).

datanae (Townsend, 1892).— British Columbia to Québec and Massachusetts, south to California and Florida (Guimarães, 1972), New Brunswick, Nova Scotia (CNC).

Exorista datanae Townsend, 1892c: 288. Type data: syntypes, 3 males (apparently lost according to Reinhard, 1931c: 29; not in SEMK). Type locality: USA, New York, Ithaca. Type host: *Datana* sp. Notodontidae.

References: Townsend, 1896: 330 (in key to species of *Exorista* Meigen); Coquillett, 1897: 125 (*quadripustulata* Fabricius in key to species of *Winthemia*, with *datanae* in synonymy); Reinhard, 1931c: 6, 29 (in key to species of *Winthemia*, redescription); Sabrosky & DeLoach,