

Superfamily HIPPOBOSCOIDEA

114. Family HIPPOBOSCIDAE

By T. C. Maa

Species of Hippoboscidae are commonly known as louse flies. Both sexes are blood-suckers and are obligate ectoparasites, chiefly on various kinds of birds. A number of species are parasitic on marsupials (in Australia), lemurs (in Madagascar), carnivores, equines, and artiodactyls. Reproduction is by pupiparity. The larvae are nurtured internally until fully developed, ready to pupate, and attaining the prepupa stage. At that time the female deposits the prepupae, singly, on the ground where they quickly harden and darken. Host specificity is generally moderately high and varies with different environmental factors and with different species of flies and hosts. Some species are often found parasitic on several kinds of unrelated birds that occupy the same habitats. One genus is wingless, 3 genera show wing reduction, and another 3 genera shed their wings after finding a suitable host mammal.

About 200 species in 21 genera and 3 subfamilies are known. They are predominantly tropical and subtropical in distribution. Only a small number of species have successfully spread to the Arctic area. The hippoboscid fauna of the Australasian/Oceanian area is fairly poor. The subfamilies Hippoboscinae and Lipopteninae, which are parasitic exclusively on mammals, are each represented by a single introduced species because there exist no suitable native host mammals. Among the species found on birds, only about a dozen species have been reported from the thousands of Oceanian islands, at least 3 of which are apparently recent introductions.

Refs.: Bequaert (1941, rev. Oceanian spp.), Maa (1969d, checklist world spp.).

Subfamily ORNITHOMYINAE

Genus AUSTROLFERSIA Bequaert

AUSTROLFERSIA Bequaert, 1953a: 49, fig. 14c. *Nomen nudum*.

AUSTROLFERSIA Bequaert, 1953b: 284. Type species: *Austrolfersia ferrisi* Bequaert, 1953, orig. des. *ferrisi* Bequaert, 1953b: 284. Australia (Qld). [Proposed (incorrectly) as a n. n. for specimens misidentified as *Ortholfersia tasmanica* sensu Ferris (1924); name validated by bibliographic reference to Ferris (1924).]

tasmanica, Ferris, 1924, not Wesché, 1903, misid.

Genus ICOSTA Speiser

ICOSTA Speiser, 1905: 358. Type species: *Olfersia dioxyrhina* Speiser, 1904, orig. des. *LYNCHIA*, authors, not Weyenbergh, 1881, misid.

Subgenus ARDMOECA Maa

ARDMOECA Maa, 1969b: 137. Type species: *Olfersia ardeae* Macquart, 1835, orig. des. *ardeae* Macquart, 1835: 640 (*Olfersia*). Sicily; Australia (NT, Qld), Northern Marianas; almost cosmopol.

holoptera Lutz *in* Lutz *et al.*, 1915: 184 (*Olfersia*). Brazil; Indonesia (Irian Jaya), PNG (PNG); Nearctic, Neotrop., Oriental Regs.
 ssp. **omnisetosa** Maa, 1969b: 152. Indonesia (Irian Jaya); PNG (PNG); E Oriental Reg.
omnisetosa Maa, 1967: 269 (as sp.). *Nomen nudum*.

Subgenus ICOSTA Speiser

ICOSTA Speiser, 1905: 358 (as gen.). Type species: *Olfersia dioxyrhina* Speiser, 1904, orig. des.
acromialis Speiser, 1904a: 386 (*Olfersia*). PNG (PNG); Indonesia (Irian Jaya), PNG (Bismarck Arch), Solomon Is; Philippines.
chalcolampra Speiser, 1904b: 335 (*Olfersia*). PNG (PNG); Australia (Qld), Indonesia (Irian Jaya, Maluku), PNG (Bismarck Arch), Solomon Is; Oriental Reg.
pollicipes Ferris, 1927b: 228. Philippines.
diluta Maa, 1969b: III. PNG (PNG).
diluta Maa, 1967: 269. *Nomen nudum*.
dioxyrhina Speiser, 1904a: 387 (*Olfersia*). PNG (PNG); Indonesia (Irian Jaya), PNG (Bismarck Arch), Solomon Is.
jactatrix Maa, 1969b: 101. Indonesia (Irian Jaya); PNG (PNG).
plana Walker, 1861b: 254 (*Ornithomyia*). Indonesia (Irian Jaya); PNG (PNG).
papuana Rondani, 1878: 162 (*Olfersia*). Indonesia (Irian Jaya).
samoana Ferris, 1927a: 17 (*Lynchia*). Western Samoa.

Subgenus ORNITHOPONUS Aldrich

ORNITHOPONUS Aldrich, 1923a: 77 (as gen.). Type species: *Feronia americana* Leach, 1817, orig. des.
antica Maa, 1969b: 200. PNG (PNG).
australica Paramonov, 1954b: 291 (*Ornithophila*). Australia (Qld).
nigra Perty, 1833: 190 (*Hippobosca*). Brazil; Hawaiian Is; Nearctic, Neotrop. Regs.
intertropica Walker, 1849: 1144 (*Ornithomyia*). Galapagos Is.
acarta Speiser, 1902b: 149 [1902c: 87] (*Olfersia*). Hawaiian Is.
parallelifrons Speiser, 1902a: 336 (*Olfersia*). PNG (PNG); Australia (NSW), Indonesia (Irian Jaya).
cacatuae Maa, 1967: 269. *Nomen nudum*.
paramonovi Maa, 1969b: 85. Australia (SA); Australia (NSW).
simplex Walker, 1861c: 263 (*Ornithomyia*). Indonesia (Sulawesi); Indonesia (Irian Jaya), PNG (PNG).
suvaensis Bequaert, 1941: 283 (*Lynchia*). Fiji.

Genus MYOPHTHIRIA Rondani

MYOPHTHIRIA Rondani, 1875b: 464. Type species: *Myophthiria reduviioides* Rondani, 1875, mon.
MYIOCORYZA Rondani, 1878: 155. Type species: *Myiophthiria lygaeoides* Rondani, 1878, orig. des.
MYIOPHTHIRIA, error for *Myophthiria*.
fijiarum Maa, 1980: 851. Fiji.
lygaeoides Rondani, 1878: 155. Indonesia (Maluku); Indonesia (Irian Jaya), PNG (PNG); ?Indonesia (Nusa Tenggara).
neocaledonica Maa, 1980: 854. New Caledonia (New Caledonia).
neohebudarum Maa, 1980: 847. Vanuatu.
queenslandae Maa, 1980: 846. Australia (Qld).
reduviioides Rondani— not Australasian/Oceanian.
wilsoni Maa, 1980: 848. PNG (PNG).

Genus OLFERSIA Leach

FERONIA Leach, 1817a: 6 [1818a: 550, 557]. Type species: *Feronia spinifera* Leach, 1817, des. Speiser, 1899a: 202. [Preocc. Latreille, 1817.]

OLFERSIA Leach, 1817c: 162 (n. n. for *Feronia*).

PSEUDOLFERSIA Coquillett, 1899d: 336. Type species: *Pseudolfersia maculata* Coquillett, 1899 [= *Lynchia fumipennis* Sahlberg, 1886], mon.

ALFERSIA, error for *Olfersia*.

aenescens Thomson, 1869: 610. Cocos (Keeling) Is; pantrop. in Atlantic, Indian, Pacific oceans.
erythroopsis Bigot, 1885l: 239. New Caledonia (New Caledonia).

fossulata Macquart, 1843: 434(277). Brazil; Indonesia (Maluku); Philippines, Neotrop. Reg.

spinifera Leach, 1817a: 11 [1818a: 552, 557] (*Feronia*). Hawaiian Is; pantrop.

Genus ORNITHOCTONA Speiser

ORNITHOCTONA Speiser, 1902a: 328. Type species: *Ornithomyia erythrocephala* Leach, 1817, orig. des.

australasiae Fabricius, 1805: 337 (*Hippobosca*). "in Insulis Oceani Pacifici" [original type locality], Indonesia (Java) [neotype locality]; Indonesia (Irian Jaya), PNG (PNG), Solomon Is, Vanuatu; widesp. Oriental Reg.

obscurata Walker, 1861c: 270 (*Ornithomyia*). Indonesia (Sulawesi).

hulahula Maa, 1969a: 17. Hawaiian Is.

plicata Olfers, 1816: 102 (*Ornithomyia*). Mauritius; American Samoa, widesp. Australia, Fiji, Indonesia (Irian Jaya, Maluku), Micronesia, New Caledonia (Loyalty Is, New Caledonia), PNG (Bismarck Arch, PNG), Solomon Is, Tonga, Vanuatu, Western Samoa; Oriental Reg.

nigricans Leach, 1817a: 12 [1818a: 558] (*Ornithomyia*). India.

australis Guérin-Méneville, 1831: pl. 21, fig. 12 (*Hyppobosca*) [1838: 302 (*Ornithomyia*)]. Australia (NSW).

sitiens Boisduval, 1835: 667 (*Hippobosca*). Solomon Is.

viridipes Walker, 1858a: 235 (*Hippobosca*). Australia (NSW).

doreica Walker, 1861b: 254 (*Ornithomyia*). Indonesia (Irian Jaya).

batchianica Walker, 1861d: 300 (*Ornithomyia*). Indonesia (Maluku) [original type locality], PNG (PNG) [neotype locality].

hatamensis Rondani, 1878: 158 (*Ornithomyia*). Indonesia (Irian Jaya).

baichiana Rondani, 1878: 158 (*Ornithomyia*). Australia (NSW).

kanakorom Bigot, 1885l: 244 (*Ornithomyia*). New Caledonia (New Caledonia).

vitrina Speiser, 1904b: 343. Tonga.

Genus ORNITHOICA Rondani

ORNITHOICA Rondani, 1878: 159. Type species: *Ornithoica beccariina* Rondani, 1878, mon.

Subgenus LOBOLEPIS Maa

LOBOLEPIS Maa, 1966a: 97. Type species: *Ornithoica curvata* Maa, 1963, orig. des.

hirtisternum Maa, 1963: 153. Indonesia (Irian Jaya).

Subgenus ORNITHOICA Rondani

ORNITHOICA Rondani, 1878: 159 (as gen.). Type species: *Ornithoica beccariina* Rondani, 1878, mon.

aequisenta Maa, 1966a: 90. PNG (Bismarck Arch); Solomon Is, Vanuatu.

ssp. **aequisenta** s. str. PNG (Bismarck Arch); Solomon Is.

ssp. **hystricosa** Maa & Marshall, 1981: 216. Vanuatu.

beccariina Rondani, 1878: 160. Indonesia (Maluku); Australia (WA).

exilis Walker, 1861b: 254 (*Ornithomyia*). Indonesia (Irian Jaya); Australia (Qld), Fiji, Guam, Indonesia (Maluku), Micronesia, New Caledonia (Loyalty Is, New Caledonia), Northern Marianas, PNG (Bismarck Arch, PNG), Vanuatu, Western Samoa; Ryukyu Is, Oriental Reg.

simplicis Maa, 1966a: 68. Indonesia (Irian Jaya).

pusilla, authors, not Schiner, 1868, misid.

- podargi** Maa, 1966a: 87. PNG (PNG).
punctatissima Maa, 1966a: 92. Solomon Is.
pusilla Schiner, 1868: 374 (*Ornithomyia*). French Polynesia (Society Is); American Samoa, Belau, French Polynesia (Tuamotu Arch), Kiribati (Line Is, Phoenix Is), Marshall Is, Northern Marianas, Palmyra Atoll, Pitcairn Is, Tokelau, Western Samoa.
stipituri Schiner, 1868: 374 (*Ornithomyia*). Australia (NSW); Australia (Qld, Tas), Indonesia (Irian Jaya), NZ (Kermadec Is, NZ), PNG (Bismarck Arch, PNG), Solomon Is, Vanuatu; widesp. Oriental Reg.
distenta Speiser, 1902a: 332. PNG (PNG).
vicina Walker, 1849: 1144 (*Ornithomyia*). Jamaica; Hawaiian Is; Nearctic, Neotrop. Regs.
peroneura Speiser, 1902c: 91 (*confluenta* Say var.). Hawaiian Is.
promiscua Ferris & Cole, 1922: 203. USA.
zamicra Maa, 1966a: 47. Indonesia (Irian Jaya); PNG (PNG).

Genus ORNITHOMYA Latreille

- ORNITHOMYA** Latreille, 1802: 466. Type species: *Hippobosca avicularia* Linnaeus, 1758, mon. *ORNITHOMYIA*, error for *Ornithomya*.
apelta Maa, 1969c: 246. PNG (PNG); Solomon Is, Vanuatu; Philippines.
areolata Maa, 1986: 85. Australia (Tas).
avicularia Linnaeus – not Australasian/Oceanian.
biloba Dufour – not Australasian/Oceanian.
fuscipennis Bigot, 1885l: 242. “Colombie,” error [= Australia]; Australia (NSW, Qld, SA, Vic), Indonesia (Irian Jaya), PNG (PNG), Solomon Is; widesp. Oriental Reg.
perfuga Speiser, 1902a: 331. Australia (NSW).
fringillina Curtis – not Australasian/Oceanian.
greeni Maa, 1986: 90. Australia (Tas).
nigricornis Erichson, 1842: 274. Australia (Tas); Australia (NSW, Qld, Vic).
tasmanensis Macquart, 1851: 282(309). Australia (Tas).
opposita Walker, 1849: 1145. NZ (NZ). *Nomen dubium*.
parva Macquart – not Australasian/Oceanian.
variegata Bigot, 1885l: 245. NZ (NZ); Australia (Tas).
opposita, authors, not Walker, 1849, misid.

Nomen nudum in Ornithomya Latreille

- clarki* Maa, 1969d: 270.

Genus ORNITHOPHILA Rondani

- ORNITHOPHILA** Rondani, 1879: 11, 20. Type species: *Ornithophila vagans* Rondani, 1879 [= *Ornithomyia metallica* Schiner, 1862], orig. des.
ORNITHEZA Speiser, 1902a: 329. Type species: *Ornithomyia gestroi* Rondani, 1878, orig. des.
metallica Schiner, 1862c: 646 (*Ornithomyia*). Austria; American Samoa, Australia (NSW, Qld, SA, Tas), Fiji, Indonesia (Irian Jaya), New Caledonia (Loyalty Is, New Caledonia), PNG (Bismarck Arch, PNG), Solomon Is, Tonga, Vanuatu, Western Samoa; widesp. Old World.
andajensis Rondani, 1878: 155 (*Ornithomyia*). Indonesia (Irian Jaya).
noumeana Bigot, 1885l: 240 (*Olfersia*). New Caledonia (New Caledonia).
aenescens Bigot, 1885l: 244 (*Ornithomyia*). New Caledonia (New Caledonia).

Genus ORTHOLFERSIA Speiser

- ORTHOLFERSIA** Speiser, 1902b: 152. Type species: *Ortholfersia phaneroneura* Speiser, 1902, mon.
bequaerti Maa, 1962b: 606. Australia (Qld).
macleayi Leach, 1817a: 12 [1818a: 558] (*Feronia*). “Australia”; Australia (NSW, Qld, Tas).

- raveni* Ferris, 1924: 4. Australia (NSW).
minuta Paramonov, 1954b: 290. Australia (Qld).
phaneroneura Speiser, 1902b: 153. Australia (NSW); Australia (Tas, Vic).
tasmanica Wesché, 1903: 385 (*Hippobosca*). Australia (Tas).

Genus PSEUDOLYNCHIA Bequaert

- PSEUDOLYNCHIA** Bequaert, 1926a: 271. Type species: *Olfersia maura* Bigot, 1885 [= *Olfersia canariensis* Macquart, 1839], orig. des.
LYNCHIA, authors, not Weyenbergh, 1881, misid.
canariensis Macquart, 1839a: 119 (*Olfersia*). Canary Is; Hawaiian Is; cosmopol. [in association with domestic pigeons].
maura Bigot, 1885l: 237 (*Olfersia*). Algeria.
mistula Maa, 1969c: 254. PNG (PNG).
serratipes Maa, 1966b: 127. PNG (PNG); Vanuatu.

Subfamily HIPPOBOSCINAE

Genus HIPPOBOSCA Linnaeus

- HIPPOBOSCA** Linnaeus, 1758: 344, 607. Type species: *Hippobosca equina* Linnaeus, 1758, des. Latreille, 1810: 444.
HYPPOBOSCA, error for *Hippobosca*.
equina Linnaeus, 1758: 607. "Europa & America septentrionali"; ?Australia, Fiji, New Caledonia (Loyalty Is, New Caledonia), Vanuatu; widesp. Old World [in association with horses].

Subfamily LILOPTENINAE

Genus MELOPHAGUS Latreille

- MELOPHAGUS** Latreille, 1802: 466. Type species: *Hippobosca ovina* Linnaeus, 1758, mon.
ovinus Linnaeus, 1758: 607 (*Hippobosca*). Not given [Europe]; Australia (NSW, Qld, SA, Tas), Hawaiian Is, NZ (NZ); almost cosmopol. [in association with sheep].