

## Superfamily HIPPOBOSCOIDEA

### 114. Family HIPPOBOSCIDAE

By T. C. Maa

**S**pecies 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 (1969*d*, checklist world spp.).

#### Subfamily ORNITHOMYINAE

##### Genus AUSTROLFERSIA Bequaert

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

**AUSTROLFERSIA** Bequaert, 1953*b*: 284. Type species: *Austrolfersia ferrisi* Bequaert, 1953, orig. des. **ferrisi** Bequaert, 1953*b*: 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, 1969*b*: 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.  
**chalcopra** 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: 111. 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.  
*erythropsis* 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-Ménéville, 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).

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

*kanakorum* 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].