

25. Family CERATOPOGONIDAE

By Margaret L. Debenham

Ceratopogonidae, or biting midges (erroneously called sand flies in coastal Australia), are small, rather stout, compact flies ranging in length from ca. 1 to 6 mm. Approximately 4,000 species are known in 5 subfamilies and ca. 76 genera; all 5 subfamilies and nearly half of the genera (comprising ca. 750 species) are recorded from the Australasian/Oceanian Regions.

The subfamily Leptoconopinae is morphologically distinctive and is sometimes given family rank (Zilahi-Sebess 1960, Krivosheina 1969, Remm 1988). Larvae of this subfamily burrow in clean, moist sand or soil in littoral, subcoastal, and inland stream habitats. In other subfamilies larval habitats are diverse (those of Austroconopinae are unknown) with preferred food being plant and soil detritus, fungi, algae, or small organisms. Their habitats include moss, damp rotting timber, tree sap flows, decaying vegetation, animal dung, partially submerged wet wood or stones in streams and bogs, tree holes, sand or mud on freshwater margins, wet soil in bogs or swamps, brackish coastal marshes (esp. mangrove communities), rice fields, floating algal mats and, particularly in the tropics, axils of water-holding plants. Larvae of the Forcipomyiinae generally occur in more terrestrial habitats and the Ceratopogoninae favor semiaquatic environments, but representatives of both subfamilies have been recorded from virtually the entire range of habitats. Species of the subfamily Dasyheleinae often occur in physically restricted environments: small rock pools, tree holes, and tree sap.

Food sources of adult Ceratopogonidae are varied. Both sexes obtain nectar from flowers, and some of the smaller, hairy species (especially *Forcipomyia* spp.) are important pollinators of some commercial crops, notably cacao and *Hevea* rubber. Females usually require a protein-rich meal for egg maturation. In Forcipomyiinae this may be the blood of large insects (living or dead) or vertebrates, or pollen sap. Leptoconopinae, *Culicoides*, and *Austroconops* use only vertebrate blood. Other Ceratopogoninae feed on small insects captured in

flight [usually males taken from a mating swarm (Downes 1977)]. A number of species are able to mature the first batch of eggs without a protein meal, but Dasyheleinae and some species of Forcipomyiinae and Culicoidini are fully autogenous and have lost functional mandibles.

Culicoides and *Leptoconops* are often severe pests of humans in coastal resort areas of northern and eastern Australia and the Pacific Islands. There is no known involvement of Ceratopogonidae in human disease transmission in the Australasian/Oceanian Regions, but elsewhere some species are vectors of human parasites or viruses. In Africa and the Americas *Culicoides* spp. transmit human filarial parasites of the genus *Mansonella* Faust. In Trinidad and Amazonian Brazil *Culicoides paraensis* (Goeldi) is a vector of Oropouche virus (Simbu group) [see Linley *et al.* (1983) for a detailed review of the role of biting midges in human health].

Two subgenera of *Forcipomyia* (*Lasiohelea*, *Dacnoforcipomyia*) take vertebrate blood and are occasional pests of humans, but *Lasiohelea* is mainly significant as a vector of stock parasites. Ottley & Moorhouse (1980) reported the laboratory transmission of *Onchocerca gibsoni* in cattle by *F. (L.) townsvillensis* in Queensland, and Ottley *et al.* (1983) suggested it was a vector of *O. cervicalis* in horses in northern Australia. In Europe and Asia these filariae are apparently transmitted by *Culicoides* species.

Two serotypes of bluetongue virus have been isolated from *Culicoides* species in the Northern Territory (St. George & Muller 1984), although there is no evidence that the disease is present. *Culicoides brevitarsis* has been implicated as a vector of Akabane and Aino viruses of calves in Australia (Coverdale *et al.* 1978). A number of viruses of no known pathology have been isolated from Australian *Culicoides*, principally *C. brevitarsis* and *C. marksii* (Muller *et al.* 1982). Riek (1954) demonstrated that an allergic dermatitis of horses, known in Australia as "Queensland itch," was produced by hypersensitivity to the bites of *C. brevitarsis*.

Taxonomic studies on this family from the regions covered here are extensive and too numerous to list in detail. Major contributions include those of Kieffer (1917a), Edwards (1928c), Ingram & Macfie (1931b), Macfie (1932-1946), Tokunaga (1940-1977), Lee (1948-1963), Lee & Reye (1953-1963), Tokunaga & Murachi (1959), Debenham (1970-1988), Debenham & Wirth (1984), and Borkent *et al.* (1987).

Immature stages have been described by Kettle & Elson (1975-1980) and Elson-Harris & Kettle (1985-1986).

Nontaxonomic studies of this family are sparse, most having been published after 1960. All published biological data for Australasian taxa are summarized in Debenham (1979).

Refs.: Wirth *et al.* (1974, key), Debenham (1979, cat., bibliogr.).

Subfamily LEPTOCONOPINAE

Genus LEPTOCONOPS Skuse

LEPTOCONOPS Skuse, 1889e: 288. Type species: *Leptoconops stygius* Skuse, 1889, mon.

Subgenus LEPTOCONOPS Skuse

LEPTOCONOPS Skuse, 1889e: 288 (as gen.). Type species: *Leptoconops stygius* Skuse, 1889, mon.
MYCTEROTYPUS Noè, 1905: 114 (as gen.). Type species: *Mycterotypus bezzii* Noè, 1905, des. Carter, 1921b: 3.

bullsbrookensis Smee, 1966: 1008. Australia (WA).

bundyensis Smee, 1966: 1007. Australia (NSW).

endialis Smee, 1966: 1010. Australia (NT); Australia (Qld, WA).

grandis Carter, 1921b: 12. Australia (WA).

halophilus Smee, 1966: 1010. Australia (WA).

longicornis Carter, 1921b: 11. Australia (WA).

mackerrasae Smee, 1966: 1006. Australia (Qld); Australia (NSW, WA).

nivalis Smee, 1966: 1012. Australia (NSW).

obscurus Smee, 1966: 1014. Australia (NSW).

riverinaensis Smee, 1966: 1009. Australia (ACT); Australia (NSW, Vic).

siamensis Carter, 1921b: 20. Thailand; Indonesia (Irian Jaya); Indonesia (Kalimantan), Malaysia (Pen).

maai Tokunaga, 1963a: 214. Indonesia (Irian Jaya).

smeei Wirth & Atchley, 1973: 22 (n. n. for *longipalpis* Smee). Australia (WA).

longipalpis Smee, 1966: 1007. Australia (WA). [Preocc. Kieffer, 1923.]

stygius Skuse, 1889e: 288. Australia (NSW); Australia (Qld, Vic).

woodhilli Lee, 1948a: 334. Australia (NT); Australia (Qld).

Subgenus STYLOCONOPS Kieffer

STYLOCONOPS Kieffer, 1921a: 107 (as gen.). Type species: *Leptoconops albiventris* de Meijere, 1915, orig. des.

ACANTHOCONOPS Carter, 1921b: 24 (as gen.). Type species: *Acanthoconops spinosifrons* Carter, 1921, orig. des.

albiventris de Meijere, 1915b: 98. Indonesia (Irian Jaya); Australia (Qld), French Polynesia (Marquesas), PNG (Bismarck Arch, Bougainville I, PNG), Solomon Is.

novaeguineae de Meijere, 1913c: xxxix (*Mycterotypus*). *Nomen nudum*.

spinosipes Kieffer, 1917a: 190. PNG (PNG).

australiensis Lee, 1948a: 337 (*Styloconops*). Australia (NSW); widesp. Australia.

mooloolabaensis Smee, 1966: 1021 (*Styloconops*). Australia (Qld); Australia (NSW, Vic).

myersi Tonnoir, 1924a: 443 (*Acanthoconops*). NZ (NZ).

pseudosetosifrons Smee, 1966: 1023 (*Styloconops*). Australia (NT).

setosifrons Smee, 1966: 1022 (*Styloconops*). Australia (Qld); Australia (NT).

Subfamily AUSTROCONOPINAE

Genus AUSTROCONOPS Wirth & Lee

AUSTROCONOPS Wirth & Lee, 1959a: 337. Type species: *Austroconops mcmillani* Wirth & Lee, 1959, orig. des.

mcmillani Wirth & Lee, 1959a: 337. Australia (WA).

Subfamily FORCIPOMYIINAE

Genus ATRICHOPOGON Kieffer

ATRICHOPOGON Kieffer, 1906: 53 (*Ceratopogon* subg.). Type species: *Ceratopogon exilis* Coquillett, 1902 [= *Ceratopogon levis* Coquillett, 1901], des. Coquillett, 1910: 512.

KEMPIA Kieffer, 1913d: 162, 179 (*Dasyhelea* subg.). Type species: *Dasyhelea calcuttensis* Kieffer, 1913, des. Wirth, 1952a: 117.

abrasus Edwards, 1928c: 52. Western Samoa.

annulifemoratus Tokunaga, 1959: 190. PNG (PNG).

arciforceps Tokunaga, 1941: 110. Micronesia; Belau.

armaticaudalis Tokunaga & Murachi, 1959: 131. Micronesia; Belau, Guam, PNG (PNG).

armatilabrum Clastrier, 1988: 211. New Caledonia (New Caledonia).

atratus Kieffer, 1917a: 184. Australia (NSW).

var. **rufiventris** Kieffer, 1917a: 184. Australia (NSW).

atroscutellatus Edwards, 1928c: 53. Western Samoa.

australis Clastrier, 1988: 200. New Caledonia (New Caledonia).

bellicosus Debenham, 1973: 74. PNG (PNG).

bifasciatus Kieffer, 1917a: 181. PNG (PNG); Indonesia (Irian Jaya).

biroi Kieffer, 1917a: 182. PNG (PNG).

brevicornis Tokunaga *in* Tokunaga & Murachi, 1959: 138. Belau.

chazeaui Clastrier, 1988: 199. New Caledonia (New Caledonia).

clavator Debenham, 1973: 73. PNG (PNG).

coracinus Kieffer, 1917a: 184. Australia (NSW).

fenestriscutum Tokunaga & Murachi, 1959: 125. Micronesia; Belau.

fitzroyi Macfie, 1932a: 34. NZ (NZ).

flavencruris Tokunaga & Murachi, 1959: 135. Micronesia.

flavitergum Tokunaga, 1959: 187. PNG (PNG).

fulviscutellaris Tokunaga, 1959: 192. PNG (PNG).

gressitti Tokunaga *in* Tokunaga & Murachi, 1959: 137. Micronesia.

greyi Macfie, 1932a: 35. NZ (NZ).

hobsoni Macfie, 1932a: 32. NZ (NZ).

hystricoides Debenham, 1973: 71. PNG (PNG).

insigniunguis Clastrier, 1988: 198. New Caledonia (New Caledonia).

jacobsoni de Meijere, 1907: 212 (*Ceratopogon*). Indonesia (Java); American Samoa, Belau, Fiji, French Polynesia (Marquesas, Society Is), Guam, Hawaiian Is, Micronesia, New Caledonia (New Caledonia), PNG (Bismarck Arch, PNG), Tonga, Western Samoa; widesp. Oriental Reg.

immaculatus Kieffer, 1917a: 181. PNG (PNG).

cavernarum Edwards, 1924a: 107. India.

rarus Johannsen, 1946: 188. Guam.

lacustris Clastrier, 1988: 203. New Caledonia (New Caledonia).

longicalcaris Tokunaga, 1959: 182. PNG (PNG); Indonesia (Irian Jaya).

mastersi Skuse, 1889e: 297 (*Ceratopogon*). Australia (NSW).

matilei Clastrier, 1988: 204. New Caledonia (New Caledonia).
neocaledoniensis Clastrier, 1988: 205. New Caledonia (New Caledonia).
nigribasalis Tokunaga, 1959: 180. PNG (PNG).
nigrithoracius Tokunaga, 1959: 188. PNG (PNG).
nigrithorax Clastrier, 1988: 208. New Caledonia (New Caledonia).
novaguinensis Tokunaga, 1959: 202. Indonesia (Irian Jaya).
obscuripes Macfie, 1933*b*: 77. French Polynesia (Society Is); ?Indonesia.
ornatithorax Clastrier, 1988: 208. New Caledonia (New Caledonia).
pacificus Clastrier, 1988: 210. New Caledonia (New Caledonia).
pallidipedis Tokunaga, 1959: 194. "Neth. New Guinea", error [= PNG (PNG)].
poguei Clastrier, 1988: 201. New Caledonia (New Caledonia).
pullatus Macfie, 1933*a*: 95. French Polynesia (Marquesas).
quateriharpagonum Tokunaga, 1959: 198. Indonesia (Irian Jaya).
rariopilennis Tokunaga & Murachi, 1959: 123. Belau.
rhynchops Schiner, 1868: 26 (*Ceratopogon*). Australia (NSW).
rubidus Macfie, 1933*a*: 97. French Polynesia (Marquesas).
sessilis Kieffer, 1917*a*: 183. PNG (PNG).
setosicubitus Clastrier, 1988: 210. New Caledonia (New Caledonia).
shortlandi Macfie, 1932*a*: 33. NZ (NZ).
simplicifurcatus Tokunaga, 1959: 201. Indonesia (Irian Jaya).
snyderi Tokunaga *in* Tokunaga & Murachi, 1959: 117. Bonin Is.
spinicaudalis Tokunaga *in* Tokunaga & Murachi, 1959: 129. Belau.
sulfuratus Debenham, n. n. PNG (PNG).
flaveolum Tokunaga, 1959: 185. PNG (PNG). [Preocc. Zilahi-Sebess, 1936.]
tenuiatus Tokunaga, 1959: 200. PNG (PNG).
tridentistylus Tokunaga, 1959: 184. PNG (PNG).
umbrosus Macfie, 1933*a*: 97. French Polynesia (Marquesas).
vepres Debenham, 1973: 73. Australia (Qld); ?PNG (PNG).
vestitipennis Kieffer, 1917*a*: 183. PNG (PNG); ?NZ (NZ).
vittatus Tokunaga, 1959: 196. PNG (PNG).

Genus FORCIPOMYIA Meigen

FORCIPOMYIA Meigen, 1818: 73, 75. Type species: *Tipula bipunctata* Linnaeus, 1767, des.
 Westwood, 1840: 126 (for *Labidomyia* Stephens). [Generic name originally published in
 synonymy with *Ceratopogon*, but available under I.C.Z.N. Code Art. II(d).]
LABIDOMYIA Stephens, 1829*a*: 52 [1829*b*: 239] (unnec. n. n. for *Forcipomyia*).

Subgenus BASSOFORCIPOMYIA Debenham

BASSOFORCIPOMYIA Debenham, 1987*b*: 172. Type species: *Forcipomyia centurio* Debenham, 1987,
 orig. des.
centurio Debenham, 1987*b*: 173. Australia (Tas).
incus Debenham, 1987*b*: 175. Australia (NSW); Australia (ACT).

Subgenus BLANTONIA Wirth & Dow

BLANTONIA Wirth & Dow, 1971: 289. Type species: *Forcipomyia caribbea* Wirth & Dow, 1971, orig.
 des.
testudo Debenham, 1987*a*: 64. Australia (Qld).

Subgenus CALOFORCIPOMYIA Saunders

CALOFORCIPOMYIA Saunders, 1957: 680. Type species: *Forcipomyia caerulea* Saunders, 1957, orig.
 des.

- gibbus** Debenham, 1987b: 180. Australia (Qld); PNG (PNG).
pennicauda Debenham, 1987b: 183. PNG (PNG).
quokkae Debenham, 1987b: 179. Australia (WA).
squamianulipes Tokunaga & Murachi, 1959: 194. Belau; Indonesia (Irian Jaya), PNG (PNG).
squamiannulipes, error for *squamianulipes*.
swezeyi Edwards, 1928c: 50. American Samoa.

Subgenus COLLESSOHELEA Debenham

- COLLESSOHELEA** Debenham, 1987a: 60. Type species: *Forcipomyia yungurara* Debenham, 1987, orig. des.
yungurara Debenham, 1987a: 61. Australia (Qld); PNG (PNG).

Subgenus DACNOFORCIPOMYIA Chan & Saunders

- DACNOFORCIPOMYIA** Chan & Saunders, 1965: 527. Type species: *Forcipomyia anabaenae* Chan & Saunders, 1965, mon.
anabaenae Chan & Saunders, 1965: 528. Singapore; Australia (Qld), PNG (Bismarck Arch); Japan.

Subgenus DYCEA Debenham

- DYCEA** Debenham, 1987d: 666. Type species: *Forcipomyia vespa* Debenham, 1987, orig. des.
capax Debenham, 1987d: 670. Australia (NSW).
edgari Tokunaga & Murachi, 1959: 154. Northern Marianas; Bonin Is.
improbiserra Debenham, 1987d: 667. PNG (PNG).
vespa Debenham, 1987d: 668. Australia (NSW).

Subgenus EUPROJOANNISIA Brèthes

- EUPROJOANNISIA** Brèthes, 1914: 155 (as gen.). Type species: *Euprojoannisia platensis* Brèthes, 1914, orig. des.
PROFORCIPOMYIA Saunders, 1957: 662. Type species: *Forcipomyia wirthi* Saunders, 1957, orig. des.
aequalis Skuse, 1889e: 294 (*Ceratopogon*). Australia (NSW); Australia (NT, Qld), PNG (PNG).
antipodum Hudson, 1892: 45 (*Ceratopogon*). NZ (NZ).
novaezelandiae Kieffer, 1922a: 145. NZ (NZ).
bellerophon Debenham & Wirth, 1984: 869. Australia (Qld).
bituberculifera Tokunaga in Tokunaga & Murachi, 1959: 188. Belau; Micronesia.
calamistrata Debenham & Wirth, 1984: 862. Australia (Qld); Australia (NT), PNG (PNG).
deucalionis Debenham & Wirth, 1984: 875. Australia (NSW); Australia (ACT, WA).
dycei Debenham & Wirth, 1984: 871. Australia (NSW); Australia (Qld).
fuscimanus Kieffer, 1921d: 559 (*Ceratopogon*). Taiwan; Australia (Qld). Bealeu, Marshall Is, Micronesia, Northern Marianas, PNG (Bismarck Arch, PNG); Ryukyu Is.
galeata Debenham & Wirth, 1984: 878. Australia (Qld); Australia (ACT, NSW, NT, Vic).
hardyi Wirth & Howarth, 1982: 130. Hawaiian Is.
iaculum Debenham & Wirth, 1984: 883. PNG (PNG).
ingrami Carter – not Australasian/Oceanian.
kaneohe Wirth & Howarth, 1982: 141. Hawaiian Is.
palikuensis Hardy, 1960: 175. Hawaiian Is.
pholeter Wirth & Howarth, 1982: 139. Hawaiian Is.
sagittarius Debenham & Wirth, 1984: 880. Australia (Qld); Australia (NT).
saltivaga Skuse, 1889e: 295 (*Ceratopogon*). Australia (NSW); Australia (ACT, Tas).
sauteri Kieffer, 1912d: 27. Taiwan; Australia (NSW, NT, Qld), Belau, Fiji, French Polynesia (Marquesas), Guam, Indonesia (Irian Jaya), Marshall Is, Micronesia, Northern Marianas, PNG (Bismarck Arch, Bougainville I, PNG), Western Samoa; Indonesia (Sumatra), Malaysia (Pen), Philippines, Ryukyu Is, Singapore.

subnitida Skuse, 1889e: 299 (*Ceratopogon*). Australia (NSW).
vandiemeni Debenham & Wirth, 1984: 864. Australia (Tas).
yapensis Tokunaga & Murachi, 1959: 185. Micronesia; Belau.

Subgenus FORCIPOMYIA Meigen

FORCIPOMYIA Meigen, 1818: 73, 75 (as gen.). Type species: *Tipula bipunctata* Linnaeus, 1767, des. Westwood, 1840: 126 (for *Labidomyia* Stephens). [Generic name originally published in synonymy with *Ceratopogon*, but available under I.C.Z.N. Code Art. 11(d).]
LABIDOMYIA Stephens, 1829a: 52 [1829b: 239] (as gen.) [unnec. n. n. for *Forcipomyia* (as *Forcipomyia* Megerle)].
TETRAPHORA Philippi, 1865: 630 (as gen.). Type species: *Tetrachora fusca* Philippi, 1865, mon.
PROHELEA Kieffer, 1911d: 319. Type species: *Ceratopogon decipiens* Kieffer, 1910, des. Brunetti, 1920: 48.
adjecta Tokunaga, 1959: 284. Indonesia (Irian Jaya); Australia (NSW, Qld), PNG (Bismarck Arch, PNG).
albopunctata Skuse, 1889e: 293 (*Ceratopogon*). Australia (NSW); widesp. Australia.
atricella Debenham, 1987c: 304. Australia (NSW).
charon Debenham, 1987c: 276. Australia (WA).
claggi Tokunaga in Tokunaga & Murachi, 1959: 150. Guam; Bonin Is.
contraria Debenham, 1987c: 307. Australia (NSW); Australia (Qld).
cooki Macfie, 1932a: 28. NZ (NZ).
crassipalpis Debenham, 1987c: 303. Australia (NSW).
declivis Debenham, 1987c: 295. Australia (NSW).
desurvillei Macfie, 1932a: 28. NZ (NZ).
episcopus Debenham, 1987c: 291. Australia (NSW).
fasciata Tokunaga, 1940b: 62 (key) [1940e: 167]. Micronesia; ?Belau, ?Guam, ?Indonesia (Irian Jaya), ?Northern Marianas, ?PNG (Bismarck Arch, PNG).
flavipectoralis Tokunaga, 1959: 280. PNG (Bismarck Arch); PNG (PNG).
geniflava Tokunaga, 1959: 278. PNG (PNG).
guamensis Tokunaga & Murachi, 1959: 166. Guam.
mira Johannsen, 1932a: 410. Indonesia (Java); Indonesia (Irian Jaya), PNG (Bismarck Arch, PNG).
palmarum Debenham, 1987c: 299. PNG (Bismarck Arch).
pardus Debenham, 1987c: 295. Australia (NSW).
parvicellula Ingram & Macfie, 1931b: 195. NZ (NZ).
pictiscutaris Tokunaga, 1959: 270. PNG (PNG).
punctipes Edwards, 1928c: 49. Western Samoa; Belau, Micronesia; Malaysia (Pen).
punctumalbum Kieffer, 1917a: 178 (*Ceratopogon*). PNG (PNG); Australia (Qld), Indonesia (Irian Jaya), PNG (Bismarck Arch).
quadriflava Tokunaga, 1959: 272. PNG (Bismarck Arch).
skusei Debenham, 1987c: 279. Australia (NSW); Australia (Qld).
spinuliforceps Tokunaga, 1959: 275. PNG (PNG).
squamitibialis Tokunaga, 1959: 269. PNG (PNG).
supplex Debenham, 1987c: 297. Australia (Qld).
swezeyana Tokunaga & Murachi, 1959: 145. Guam; Belau, Indonesia (Irian Jaya), Northern Marianas, PNG (Bismarck Arch, PNG).
tapleyi Ingram & Macfie, 1931b: 196. NZ (NZ); NZ (Auckland Is).
tortor Debenham, 1987c: 286. Australia (NSW).
vexillarius Debenham, 1987c: 291. Australia (NSW).
wahgi Debenham, 1987c: 285. PNG (PNG).

Subgenus HERAKLEOHELEA Debenham

HERAKLEOHELEA Debenham, 1987a: 97. Type species: *Forcipomyia grallator* Debenham, 1987, orig. des.
grallator Debenham, 1987a: 97. Australia (NSW).

Subgenus KATTANGOMYIA Debenham

KATTANGOMYIA Debenham, 1987a: 98. Type species: *Forcipomyia taurus* Debenham, 1987, orig. des.
orbis Debenham, 1987a: 102. Australia (NSW).
taurus Debenham, 1987a: 101. Australia (NSW).

Subgenus LASIOHELEA Kieffer

LASIOHELEA Kieffer, 1921a: 115 (as gen.). Type species: *Atrichopogon pilosipennis* Kieffer, 1919 [= *Ceratopogon velox* Winnertz, 1852], orig. des.
aiyuræ Debenham, 1983: 29. PNG (PNG).
ancoriformis Tokunaga in Tokunaga & Murachi, 1959: 226. Micronesia.
brevisicæ Debenham, 1983: 26. Australia (NSW); Australia (Qld).
caesariata Debenham, 1983: 8. Australia (Qld).
carolinensis Tokunaga, 1940a: 208 (*Lasiohelea*). Micronesia; American Samoa, Belau, Fiji, Northern Marianas.
citowitschi Debenham, 1983: 17. Australia (Qld).
colum Debenham, 1983: 7. PNG (PNG).
crocea Debenham, 1983: 15. PNG (Bismarck Arch); Australia (Qld), Indonesia (Irian Jaya), PNG (PNG), Solomon Is.
cuculli Debenham, 1983: 34. Australia (Qld).
fenestrarum Debenham, 1983: 25. Australia (NSW); Australia (Qld).
hicksæ Debenham, 1983: 30. Australia (Qld); Australia (NSW, NT).
incomposita Debenham, 1983: 20. PNG (Bismarck Arch).
infans Debenham, 1983: 28. Australia (Qld).
kamilaroi Debenham, 1983: 29. Australia (NSW).
ministra Debenham, 1983: 32. Australia (NT).
nemus Debenham, 1983: 19. Australia (Qld).
nhulunbuyensis Debenham, 1983: 32. Australia (NT).
paenedentula Debenham, 1983: 16. Australia (Qld).
parenthesis Debenham, 1983: 24. Australia (Qld).
peræ Debenham, 1983: 23. Solomon Is.
peregrinator Debenham, 1983: 12. Australia (Qld); Australia (NT, WA).
plumosa Debenham, 1983: 9. PNG (PNG).
puteus Debenham, 1983: 14. Australia (Qld); Australia (NSW).
rastraria Debenham, 1983: 10. Australia (NT); Australia (Qld).
russelli Debenham, 1983: 11. Australia (Qld).
serridentata Debenham, 1983: 18. Solomon Is.
spinipenis Tokunaga in Tokunaga & Murachi, 1959: 227. Belau.
stimulans de Meijere, 1909c: 197 (*Ceratopogon*). Indonesia (Java & Sumatra); ?Micronesia.
townsvillensis Taylor, 1918b: 169 (*Culicoides*). Australia (Qld); Australia (NSW, NT), PNG (Bismarck Arch, PNG), Solomon Is.

Subgenus LEPIDOHELEA Kieffer

LEPIDOHELEA Kieffer, 1917b: 364 (as gen.). Type species: *Ceratopogon chrysolophus* Kieffer, 1911, orig. des.
acinacium Debenham, 1987c: 329. Australia (NSW).

adversari Debenham, 1987c: 321. Australia (Qld); Australia (NSW).
bifurcifera Tokunaga, 1959: 281. PNG (PNG).
bullata Debenham, 1987c: 315. Australia (ACT); S Australia.
cerberus Debenham, 1987c: 335. Australia (NSW).
davidi Debenham, 1987c: 330. Australia (NSW).
demeter Debenham, 1987c: 319. Australia (Vic); Australia (NSW).
lagoenae Debenham, 1987c: 327. Australia (NSW).
maculosicrura Tokunaga, 1959: 265. PNG (Bismarck Arch); Indonesia (Irian Jaya), PNG (PNG).
manis Debenham, 1987c: 344. PNG (PNG).
medipalus Debenham, 1987c: 320. Australia (NSW).
paenulata Debenham, 1987c: 334. Australia (WA).
palliscuta Tokunaga, 1959: 259. PNG (PNG); Australia (Qld).
parvicrater Debenham, 1987c: 336. Australia (ACT).
pictisquamipennis Tokunaga, 1959: 260. PNG (PNG).
quinqueremis Debenham, 1987c: 341. PNG (PNG); Indonesia (Irian Jaya).
scurra Debenham, 1987c: 340. Australia (Qld).
semihamata Debenham, 1987c: 339. Australia (NSW).
semota Debenham, 1987c: 328. Australia (Qld); Australia (ACT, NSW).
tortuosa Debenham, 1987c: 322. Australia (NSW); Australia (ACT, Qld, Tas).
unifascicornis Tokunaga, 1959: 263. PNG (PNG); Australia (NT).
unitheca Tokunaga *in* Tokunaga & Murachi, 1959: 183. Belau; Micronesia.

Subgenus METAFORCIPOMYIA Saunders

METAFORCIPOMYIA Saunders, 1957: 685. Type species: *Forcipomyia cerifera* Saunders, 1957, orig. des.
campana Debenham, 1987b: 193. Australia (NSW); Australia (Tas).
colonus Debenham, 1987b: 191. Australia (ACT); Australia (NSW).
crepidinis Debenham, 1987b: 196. Australia (WA).
furculae Debenham, 1987b: 190. PNG (PNG).
novaguineae Tokunaga, 1959: 289. PNG (PNG); Indonesia (Irian Jaya).
rupicola Debenham, 1987b: 194. Australia (NSW).
stigmatipennis Tokunaga, 1959: 268. PNG (PNG).
tomaculorum Debenham, 1987b: 188. Australia (NSW); Australia (ACT, Qld).

Subgenus MICROHELEA Kieffer

MICROHELEA Kieffer, 1917b: 364 (as gen.). Type species: *Atrichopogon microtomus* Kieffer, 1917, des. Kieffer, 1921g: 7. [Explanatory annotation on erroneous type designation in 1917 work given in Kieffer (1921g).]
abbaekiefferi Debenham, 1987d: 656. PNG (PNG); Australia (NSW, Qld) ?Indonesia (Irian Jaya).
arnhemi Debenham, 1987d: 652. Australia (NT).
australiensis Kieffer, 1917a: 178 (*Ceratopogon*). PNG (PNG). *Nomen dubium*.
esakiana Tokunaga, 1940a: 206. Micronesia; Australia (Qld), Belau, Guam, Indonesia (Irian Jaya), Marshall Is, PNG (Bismarck Arch, PNG); Ryukyu Is, Thailand.
flavitibialis Tokunaga & Murachi, 1959: 170. Micronesia; Belau, Guam, Indonesia (Irian Jaya), Kiribati (Gilbert Is), Marshall Is, PNG (PNG).
fuliginosa Meigen, 1818: 86 (*Ceratopogon*). Germany; ?Fiji, ?French Polynesia (Society Is), ?Western Samoa; cosmopol.
hirtipes de Meijere, 1907: 209. Indonesia (Java).
ornaticrus Ingram & Macfie, 1924b: 577 (*inornatipennis* var.). Ghana & Nigeria & Tanzania.
globularis Edwards, 1928c: 48. Western Samoa.
gressitti Tokunaga & Murachi, 1959: 152. Belau; Micronesia.
inornatipennis Austen, 1912b: 107. Nigeria; ?French Polynesia (Marquesas).

- lignarius** Debenham, 1987*d*: 655. Australia (Qld).
ocrearum Debenham, 1987*d*: 664. PNG (PNG).
ornata Tokunaga, 1940*b*: 61 (key) [1940*e*: 166]. Belau; Guam, Marshall Is, Micronesia, Northern Marianas, ?PNG (PNG).
proximornata Debenham, 1987*d*: 657. PNG (PNG).
serrulifimbria Tokunaga, 1959: 283. PNG (PNG).
stelechos Debenham, 1987*d*: 649. Australia (Qld).
subspadicifascia Tokunaga & Murachi, 1959: 167. Micronesia; Belau, Marshall Is.
tuthilli Tokunaga *in* Tokunaga & Murachi, 1959: 174. Marshall Is.
willisi Debenham, 1987*d*: 661. Australia (NSW); Australia (ACT, Qld), PNG (PNG).

Subgenus **PEDILOHELEA** de Meillon & Wirth

- PEDILOHELEA** de Meillon & Wirth, 1980: 9. Type species: *Forcipomyia clastrieri* Dessart, 1963, orig. des.
forcipis de Meillon & Wirth, 1980: 18. Malaysia (Sabah); Australia (Qld), PNG (Bismarck Arch).
proavia Debenham, 1987*d*: 642. Australia (ACT); Australia (NSW, Tas).
tasmani Macfie, 1932*a*: 27. NZ (NZ).

Subgenus **PHYTOHELEA** Remm

- PHYTOHELEA** Remm, 1971: 189. Type species: *Ceratopogon bromelicola* Lutz, 1914, orig. des.
APELMA, authors, not Kieffer, 1919, misid.
TRICHOHELEA, authors, not Goetghebuer, 1920, misid.
alocasiae Tokunaga, 1961*c*: 120. PNG (Bismarck Arch).
belkini de Meillon & Wirth, 1979: 198. NZ (NZ).
brevis Johannsen, 1927: 205 (*Apelma*). Hawaiian Is.
fijiensis Macfie, 1945: 1 (*Apelma*). Fiji.
forfices Debenham, 1987*a*: 114. Australia (Qld).
hamaticauda Tokunaga *in* Tokunaga & Murachi, 1959: 212. Belau.
marksae Tokunaga, 1961*c*: 117. PNG (PNG); Australia (NSW, Qld).
oligarthra Saunders, 1957: 698. Puerto Rico; Belau, PNG (Bismarck Arch); Guyana, Mexico, Singapore, SE USA, widesp. Caribbean.
sabroskyi Tokunaga *in* Tokunaga & Murachi, 1959: 211. Belau; Micronesia.

Subgenus **PTEROBOSCA** Macfie

- PTEROBOSCA** Macfie, 1932*c*: 266 (as gen.). Unavailable name; genus-group name proposed after 1930 without type-species designation.
PTEROBOSCA Macfie 1940*a*: 16 (as gen.). Type species: *Ceratopogon aeschnosuga* de Meijere, 1923, orig. des.
adhesipes Macfie, 1932*c*: 270 (*Pterobosca*). Indonesia (Irian Jaya & Java); Micronesia, New Caledonia (New Caledonia); Ryukyu Is.
ariel Macfie, 1932*c*: 275 (*Pterobosca*). Indonesia (Maluku); Australia (NT, WA), New Caledonia (New Caledonia).
chrysopipennis Wirth, 1966: 29 (n. n. for *chrysopae* Tokunaga). Belau.
chrysopae Tokunaga *in* Tokunaga & Murachi, 1959: 235. Belau. [Preocc. Mayer, 1934.]
esakii Tokunaga, 1940*a*: 210 (*Pterobosca*). Northern Marianas; Belau, Guam.
esakia Tokunaga *in* Tokunaga & Murachi, 1959: 234 (unnec. n. n. for *esakii* Tokunaga). **N. syn.**
feminae Tokunaga, 1940*b*: 100 (key) [1940*e*: 168] (*Pterobosca*). Belau; Micronesia.
fidens Macfie, 1936: 277 (*Pterobosca*). China (Hainan I); Kiribati (Gilbert Is), Marshall Is; Ryukyu Is.
fusicornis Coquillett, 1905*b*: 63 (*Ceratopogon*). USA; Hawaiian Is [immigrant; not established]; New World.
lairdi Wirth, 1956: 363 (*Pterobosca*). Solomon Is.

odonatiphila Macfie, 1932c: 274 (*Pterobosca*). Indonesia (Irian Jaya); PNG (PNG).
ogatai Tokunaga, 1961a: 3. New Caledonia (New Caledonia).

Subgenus SALIOHELEA Wirth & Ratanaworabhan

SALIOHELEA Wirth & Ratanaworabhan, 1978: 494. Type species: *Forcipomyia leei* Wirth & Ratanaworabhan, 1978, orig. des.
deminuta Tokunaga & Murachi, 1959: 219. Micronesia; Belau.

Subgenus SCHINEROMYIA Debenham

SCHINEROMYIA Debenham, 1987a: 67. Type species: *Forcipomyia gandangara* Debenham, 1987, orig. des.
gandangara Debenham, 1987a: 67. Australia (NSW); Australia (Qld).

Subgenus SCHIZOFORCIPOMYIA Chan & Le Roux

SCHIZOFORCIPOMYIA Chan & Le Roux, 1971: 271. Type species: *Forcipomyia petersoni* Chan & Le Roux, 1971 [= *Forcipomyia borbonica* Clastrier, 1959], orig. des.
borbonica Clastrier, 1959: 436. Réunion I; American Samoa, Australia (NT, Qld), Belau, Bonin Is, Guam, Hawaiian Is, Indonesia (Irian Jaya), Micronesia, Northern Marianas; Cocos (Keeling) Is, India, Ivory Coast, Seychelles, Singapore.
penniornata Tokunaga & Murachi, 1959: 163. Guam.
fuscimaculata Hardy, 1960: 170. Hawaiian Is.
petersoni Chan & Le Roux, 1971: 272. Singapore.
clavulus Debenham, 1987d: 639. Australia (NSW).
monoceros Debenham, 1987d: 634. Australia (NSW); Australia (ACT, Qld).
yirrkala Debenham, 1987d: 636. Australia (NT); Australia (NSW).

Subgenus SYNTHYRIDOMYIA Saunders

SYNTHYRIDOMYIA Saunders, 1957: 688. Type species: *Lasiohelea acidicola* Tokunaga, 1937, orig. des.
ansericolli Debenham, 1987a: 59. Australia (NT).
bucera Debenham, 1987a: 55. Australia (Qld); Australia (NT).
caestuum Debenham, 1987a: 53. Australia (Qld).
operimenti Debenham, 1987a: 58. Australia (Qld).
oryx Debenham, 1987a: 54. Australia (NT).
tympanista Debenham, 1987a: 56. Australia (Qld); Australia (NT).
unituberculata Tokunaga in Tokunaga & Murachi, 1959: 197. Belau.

Subgenus THYRIDOMYIA Saunders

THYRIDOMYIA Saunders, 1925: 268 (as gen.). Type species: *Thyridomyia palustris* Saunders, 1925 [= *Ceratopogon monilicornis* Coquillett, 1905], orig. des.
carolinea Tokunaga in Tokunaga & Murachi, 1959: 214. Belau.
frutetorum Winnertz, 1852: 29 (*Ceratopogon*). Germany; Australia (NSW, Qld), PNG (PNG); widesp. Afrotrop., Nearctic, Palearctic Regs.
hamata Tokunaga in Tokunaga & Murachi, 1959: 207. Belau.
litoraurea Ingram & Macfie, 1924a: 389 (*Lasiohelea*). Ghana; Australia; Algeria, The Gambia, S. Afr., ?USSR (Estonia).
masaakii Debenham, n. n. Belau; Micronesia, Northern Marianas.
esakii Tokunaga, 1940d: 101 (key) [1940e: 169] (*Lasiohelea*). Belau. [Preocc. Tokunaga, 1940a.]
monilicornis Coquillett, 1905b: 63 (*Ceratopogon*). Canada; Australia (NSW, Qld); widesp. Afrotrop., Nearctic, Palearctic Regs.

Subgenus TRICHOHELEA Goetghebuer

- APELMA* Kieffer, 1919b: 64 (as gen.). Type species: *Apelma auronitens* Kieffer, 1919, des. Macfie, 1940a: 16. [Preocc. Billberg, 1820.]
- TRICHOHELEA** Goetghebuer, 1920: 39 (as gen.). Type species: *Trichohelea tonnoiri* Goetghebuer, 1920 [= *Apelma auronitens* Kieffer, 1919], orig. des.
- NEOFORCIPOMYIA* Tokunaga in Tokunaga & Murachi, 1959: 200. Type species: *Ceratopogon pectinunguis* de Meijere, 1923, orig. des.
- alienus** Debenham, 1987a: 83. Australia (NSW).
- arcis** Debenham, 1987a: 91. Australia (NT); Australia (Qld).
- austrina** Macfie, 1932a: 29. NZ (NZ).
- basiflava** Tokunaga in Tokunaga & Murachi, 1959: 202. Micronesia.
- chirurgus** Debenham, 1987a: 87. Australia (NSW).
- cliens** Debenham, 1987a: 76. PNG (PNG).
- ferrea** Debenham, 1987a: 76. Australia (Qld).
- imparidentes** Debenham, 1987a: 77. Fiji.
- insignis** Skuse, 1889e: 298 (*Ceratopogon*). Australia (NSW); Australia (Qld, Tas, WA).
sydneyensis Skuse, 1889e: 302 (*Ceratopogon*). Australia (NSW).
- kuscheli** Sublette & Wirth, 1980: 330. NZ (Campbell I); NZ (Auckland Is).
- lunata** Debenham, 1987a: 90. Australia (NSW).
- pacifica** Macfie, 1933b: 75 (*Lasiohelea*). French Polynesia (Society Is).
- papuensis** Lane & Cotman, 1986: 617. PNG (PNG).
- pectinunguis** de Meijere, 1923: 138 (*Ceratopogon*). Indonesia (Sumatra); American Samoa, Australia (Qld), Belau, Micronesia, Northern Marianas, PNG (PNG).
- pennambula** Macfie, 1932c: 279. Indonesia (Maluku).
- quateriungula** Tokunaga, 1959: 293. Indonesia (Irian Jaya).
- samoensis** Edwards, 1928c: 51 (*Lasiohelea*). Western Samoa; Indonesia (?Irian Jaya, Maluku).
- scorpio** Debenham, 1987a: 88. Australia (NSW).
- sector** Debenham, 1987a: 83. Australia (NSW); Australia (Qld).
- tipulivora** Macfie, 1936: 229. Indonesia (Irian Jaya).
- tumulus** Debenham, 1987a: 92. Australia (NSW).

Subgenus TYPHONOMYIA Debenham

- TYPHONOMYIA** Debenham, 1987a: 93. Type species: *Forcipomyia anachoreta* Debenham, 1987, orig. des.
- anachoreta** Debenham, 1987a: 94. Australia (NSW).

Subgenus WARMKEA Saunders

- WARMKEA** Saunders, 1957: 671. Type species: *Forcipomyia bicolor* Saunders, 1957 [preocc., = *Forcipomyia lesliei* Wirth, 1974], orig. des.
- albiacies** Debenham, 1987b: 170. Australia (Qld).

Unplaced species of Forcipomyia Meigen

- flaviventris** Kieffer, 1917a: 179 (*Ceratopogon*). PNG (PNG); ?Indonesia (Irian Jaya).
- lepidopus** Kieffer, 1917a: 179 (*Ceratopogon*). PNG (PNG).

Subfamily DASYHELEINAE**Genus DASYHELEA Kieffer**

- DASYHELEA** Kieffer, 1911e: 5. Type species: *Dasyhelea halophila* Kieffer, 1911, orig. des.
- aeratipennis** Skuse, 1889e: 303 (*Ceratopogon*). Australia (NSW).

- atronotata** Macfie, 1938: 158. Solomon Is.
- aucklandensis** Sublette & Wirth, 1980: 331. NZ (Auckland Is).
- calvescens** Macfie, 1938: 157. Hawaiian Is.
- carolinensis** Tokunaga, 1941: 112. Micronesia; American Samoa, Belau, Tonga.
- decempunctata** Skuse, 1889e: 301 (*Ceratopogon*). Australia (NSW).
- dupliforceps** Tokunaga *in* Tokunaga & Murachi, 1959: 264. Kiribati (Gilbert Is).
- dybasi** Tokunaga & Murachi, 1959: 291. Belau; Micronesia.
- esakii** Tokunaga, 1940a: 212. Micronesia; Belau, Kiribati (Gilbert Is), Marshall Is; Cocos (Keeling) Is.
- flavescens** Tokunaga & Murachi, 1959: 250. Marshall Is; Belau, Kiribati (Gilbert Is), Micronesia, Northern Marianas.
- flavibasalis** Tokunaga, 1940d: 118 (key) [1940e: 173]. Micronesia; Marshall Is.
- flavicaudalis** Tokunaga & Murachi, 1959: 248. Micronesia.
- forsteri** Grogan & Wirth, 1981: 97. Solomon Is.
- fulvicauda** Macfie, 1933a: 101. French Polynesia (Marquesas); French Polynesia (Society Is); ?Indonesia, ?Taiwan.
- fumala** Tokunaga, 1940d: 117 (key) [1940e: 176]. Belau; Guam, Marshall Is, Micronesia.
- furcillifera** Tokunaga *in* Tokunaga & Murachi, 1959: 275. Micronesia; Belau.
- gressitti** Tokunaga *in* Tokunaga & Murachi, 1959: 251. Belau.
- hawaiiensis** Macfie, 1934a: 133. Hawaiian Is.
- hitchcocki** Wirth, 1976: 381. Tonga.
- humilis** Macfie, 1938: 159. Solomon Is.
- insularis** Tokunaga, 1940a: 214. Micronesia; Belau, Kiribati (Gilbert Is), Northern Marianas.
- insulicola** Tokunaga & Murachi, 1959: 307. Marshall Is; Belau, Micronesia.
- intonsa** Debenham, 1987e: 347. Cocos (Keeling) Is; Belau, Guam, Marshall Is, Micronesia, Northern Marianas.
- perfida*, Tokunaga & Murachi, 1959, not Johannsen, 1931, misid.
- jucunda** Macfie, 1932a: 38. NZ (NZ).
- lineata** Kieffer, 1917a: 186 (*Culicoides*). PNG (PNG).
- minuscule** Skuse, 1889e: 299 (*Ceratopogon*). Australia (NSW).
- multifascia** Tokunaga & Murachi, 1959: 320. Micronesia.
- myrmedon** Kieffer, 1917a: 188. PNG (PNG).
- nigella** Skuse, 1889e: 300 (*Ceratopogon*). Australia (NSW).
- nigripygma** Tokunaga *in* Tokunaga & Murachi, 1959: 310. Micronesia; Belau.
- nigristigmata** Tokunaga & Murachi, 1959: 246. Marshall Is.
- nigroris** Tokunaga & Murachi, 1959: 301. Micronesia; Guam.
- oribates** Macfie, 1932a: 40. NZ (NZ).
- pacifica** Macfie, 1933a: 99. French Polynesia (Marquesas); French Polynesia (Society Is).
- var. **pallida** Macfie, 1933a: 100. French Polynesia (Marquesas).
- palauensis** Tokunaga, 1940d: 117 (key) [1940e: 177]. Belau; Guam, Kiribati (Gilbert Is), Micronesia, Northern Marianas.
- pallivittae** Tokunaga *in* Tokunaga & Murachi, 1959: 269. Micronesia; Marshall Is.
- palloris** Tokunaga & Murachi, 1959: 298. Northern Marianas.
- parvistylata** Tokunaga & Murachi, 1959: 259. Micronesia; Belau.
- peliliouensis** Tokunaga, 1940d: 117 (key) [1940e: 177]. Belau; Guam, Kiribati (Gilbert Is), Micronesia, Northern Marianas.
- platychaeta** Hardy, 1960: 185. Hawaiian Is.
- quaternihamata** Tokunaga & Murachi, 1959: 295. Micronesia; Marshall Is, Northern Marianas.
- radialis** Edwards, 1928c: 53. Western Samoa.
- raripilosa** Tokunaga, 1940d: 117 (key) [1940e: 172]. Belau.
- rusa** Macfie, 1933b: 79. French Polynesia (Society Is).
- sabroskyi** Tokunaga *in* Tokunaga & Murachi, 1959: 273. Belau.
- sagittifera** Tokunaga & Murachi, 1959: 292. Northern Marianas; Belau, Marshall Is.
- striipennis** Tokunaga *in* Tokunaga & Murachi, 1959: 312. Micronesia; Belau.

subgrata Tokunaga, 1961*b*: 180. Indonesia (Irian Jaya).

subperfidia Tokunaga, 1940*d*: 117 (key) [1940*e*: 174]. Belau; Bonin Is, Guam, Micronesia, Northern Marianas.

subscutellata Tokunaga, 1940*d*: 118 (key) [1940*e*: 175]. Belau; Guam, Micronesia, Northern Marianas.

townesi Tokunaga & Murachi, 1959: 267. Marshall Is; Micronesia, Northern Marianas.

truncata Tokunaga & Murachi, 1959: 297. Belau.

vittula Tokunaga *in* Tokunaga & Murachi, 1959: 271. Guam; Belau, Micronesia, Northern Marianas.

Subfamily CERATOPOGONINAE

Tribe CULICOIDINI

Genus CULICOIDES Latreille

CULICOIDES Latreille, 1809: 251. Type species: *Culicoides punctata* Latreille, 1809, mon.

Subgenus AVARITIA Fox

AVARITIA Fox, 1955: 218. Type species: *Ceratopogon obsoletus* Meigen, 1818, orig. des.

actoni Smith, 1929: 255 [1932: 180]. India; N Australia, Indonesia (Irian Jaya), PNG (Bougainville I, PNG), Solomon Is; China, Japan, Ryukyu Is, widesp. Oriental Reg.

okumensis Arnaud, 1956: 119. Ryukyu Is.

robertsi, Tokunaga, 1962, not Lee & Reye, 1953, misid.

boophagus Macfie, 1937: 116. Malaysia (Pen); Australia (Qld), PNG (PNG); widesp. Oriental reg.

brevipalpis Delfinado, 1961: 654. Philippines; N Australia; Japan, widesp. Oriental Reg.

brevitarsis Kieffer, 1917*a*: 187. "Australie"; Australia (NSW, NT, Qld, WA), Fiji, Indonesia (Irian Jaya), Lord Howe I, New Caledonia (New Caledonia), PNG (PNG), Vanuatu; Japan, widesp. Oriental Reg.

robertsi Lee & Reye, 1953: 386. Australia (Qld).

dikhros Tokunaga, 1962*b*: 507. PNG (PNG).

fragmentum Tokunaga, 1962*b*: 507. PNG (PNG); PNG (Bismarck Arch), Solomon Is.

fulvus Sen & Das Gupta, 1959: 628. India; N Australia, Indonesia (Irian Jaya), PNG (Bismarck Arch, Bougainville I), Solomon Is; widesp. Oriental Reg.

jacobsoni Macfie, 1934*c*: 215. Indonesia (Sumatra); Australia (Qld), Indonesia (Irian Jaya), PNG (Bismarck Arch, PNG), Solomon Is, Vanuatu; Japan, widesp. Oriental Reg.

buckleyi Macfie, 1937: 117. Malaysia (Pen).

unisetiferus Tokunaga, 1959: 236. PNG (Bismarck Arch).

orientalis Macfie, 1932*b*: 490. India & Indonesia (Java) & "Malay States"; PNG (Bismarck Arch, PNG); widesp. Oriental Reg.

pungens de Meijere, 1909*c*: 200. Indonesia (Sumatra); Australia (NT, Qld), Belau, Indonesia (Maluku), PNG (Bismarck Arch); widesp. Oriental Reg.

obscurus Tokunaga & Murachi, 1959: 347. Belau.

wadai Kitaoka, 1980: 14. Ryukyu Is; Australia (NT, Qld, WA); Laos.

suzukii, authors, not Kitaoka, 1973, misid.

Subgenus CULICOIDES Latreille

CULICOIDES Latreille, 1809: 251 (as gen.). Type species: *Culicoides punctata* Latreille, 1809, mon.

jimmiensis Tokunaga, 1959: 229. PNG (PNG).

novaguineanus Tokunaga, 1959: 223. Indonesia (Irian Jaya); PNG (Bismarck Arch, PNG).

peregrinus Kieffer, 1910*b*: 191. India; Australia (NT), Belau, Indonesia (Irian Jaya), Micronesia; China, Japan, widesp. Oriental Reg.

judicandus Bezzi, 1916: 8. Philippines.

esmoneti Salm, 1917: 136. Indonesia (Java).

- philippinensis* Kieffer, 1921d: 564. Philippines.
lungchiensis Chen & Tsai, 1962: 397 (*peregrinus* ssp.). China.
sumatrae Macfie, 1934b: 190. Indonesia; Australia (Qld), PNG (PNG); N China, Japan, ?Korea,
 Ryukyu Is, widesp. Oriental Reg.
amamiensis Tokunaga, 1937: 325. Ryukyu Is.
kagiensis Tokunaga, 1937: 327. Taiwan.
assimilis Delfinado, 1961: 660. Philippines.
amamensis, error for *amamiensis*.

Subgenus DRYMODESMYIA Vargas

- DRYMODESMYIA** Vargas, 1960: 40. Type species: *Culicoides copiosus* Root & Hoffman, 1937, orig. des.
loughnani Edwards, 1922d: 165. Jamaica; Australia (NSW, Qld); Caribbean, USA.

Subgenus HAEMOPHORUCTUS Macfie

- HAEMOPHORUCTUS** Macfie, 1925: 349 (as gen.). Type species: *Haemophoructus maculipennis* Macfie, 1925, mon.
gemellus Macfie, 1934b: 192. Malaysia (Sabah); PNG (PNG); widesp. Oriental Reg.
gentilis Macfie, 1934b: 191. Malaysia (Pen); Indonesia (Irian Jaya), PNG (Bismarck Arch, PNG); Philippines, Sri Lanka.

Subgenus MEIJEREHELEA Wirth & Hubert

- MEIJEREHELEA** Wirth & Hubert, 1961: 23. Type species: *Ceratopogon guttifer* de Meijere, 1907, orig. des.
arakawai Arakawa — not Australasian/Oceanian.
guttifer de Meijere, 1907: 209 (*Ceratopogon*). Indonesia (Java); Belau, Indonesia (Irian Jaya), PNG (Bismarck Arch, PNG); widesp. Oriental Reg.
histrio Johannsen, 1946: 190 (*guttifer* var.). Guam; Australia (NSW, NT, Qld), Belau, Micronesia, PNG (Bismarck Arch, PNG); widesp. Oriental Reg.
mackayensis Lee & Reye, 1953: 383. Australia (Qld).

Subgenus MONOCULICOIDES Khalaf

- MONOCULICOIDES** Khalaf, 1954: 39. Type species: *Ceratopogon nubeculosis* Meigen, 1830, orig. des. *variipennis* Coquillett, 1901b: 602 (*Ceratopogon*). USA; Hawaiian Is [immigrant; not established]; Nearctic Reg. to Mexico.

Subgenus OECACTA Poey

- OECACTA** Poey, 1853: 238 (as gen.). Type species: *Oecacta furens* Poey, 1853, mon.
austropalpalis Lee & Reye, 1955: 240 (n. n. for *palpalis* Lee & Reye). Australia (Qld); widesp. Australia, PNG (PNG).
palpalis Lee & Reye, 1953: 380. Australia (Qld). [Preocc. Macfie, 1948.]
bunrooensis Lee & Reye, 1955: 238. Australia (Qld); Australia (NSW).
clavipalpis Mukerji, 1931: 1052. India; Australia (Qld); Japan, widesp. Oriental Reg.
esakii Tokunaga, 1940a: 217. Micronesia; Belau.
flavimaculinotalis Tokunaga, 1940d: 142 (key) [1940e: 180]. Micronesia; Belau.
flaviscryptus Tokunaga, 1959: 252. PNG (Bismarck Arch).
insulanus Macfie, 1933b: 77. French Polynesia (Society Is); American Samoa, Western Samoa.
marginalis Lee & Reye, 1963: 354. Australia (NSW); Australia (Qld).
multinotatae Tokunaga, 1962b: 481. PNG (Bismarck Arch).
narrabeenensis Lee & Reye, 1963: 357. Australia (NSW); Australia (Qld).
nattaiensis Lee & Reye, 1955: 237. Australia (NSW); Australia (Qld).

- neopalpalis** Tokunaga, 1962*b*: 483. PNG (PNG).
notatus Delfinado, 1961: 648. Philippines; Australia (Qld), PNG (Bismarck Arch, PNG); Laos, Malaysia (Pen).
papuae Tokunaga, 1962*b*: 481. PNG (Bismarck Arch).
pallidimaculosus Tokunaga, 1959: 219. PNG (PNG); PNG (Bismarck Arch, Bougainville I).
parviscriptus Tokunaga, 1959: 213. PNG (PNG); PNG (Bismarck Arch); Laos, Malaysia (Pen), Sri Lanka.
perornatus Delfinado, 1961: 651. Philippines; PNG (Bismarck Arch); Malaysia (Pen).
petersi Tokunaga, 1962*b*: 490. PNG (PNG).
semicircum Tokunaga, 1959: 208. Indonesia (Irian Jaya); PNG (PNG).
smeei Tokunaga, 1960: 73. PNG (Bismarck Arch); Australia (Qld), PNG (PNG).
williwilli Lee & Reye, 1955: 234. Australia (NSW); Australia (Qld).
yasumatsui Tokunaga, 1941: 113. Micronesia; Belau, PNG (Bismarck Arch).
lingensis Tokunaga, 1963*b*: 129. PNG (Bismarck Arch).
yoshimurai Tokunaga, 1941: 114. Micronesia; PNG (Bismarck Arch, PNG).

Subgenus REMMIA Glukhova

- REMMIA** Glukhova, 1977: 116. Type species: *Ceratopogon schultzei* Enderlein, 1908, orig. des.
oxystoma Kieffer, 1910*b*: 193. India; Australia (NT), Indonesia (Irian Jaya), PNG (Bismarck Arch, PNG); Japan, widesp. Oriental Reg.
schultzei, authors, not Enderlein, 1908, misid.

Subgenus TRITHECOIDES Wirth & Hubert

- TRITHECOIDES** Wirth & Hubert, 1959: 2. Type species: *Culicoides flaviscutatus* Wirth & Hubert, 1959, orig. des.
anophelis Edwards, 1922*d*: 161. Malaysia (Pen); PNG (Bismarck Arch); China, Japan, widesp. Oriental Reg.
baisasi Wirth & Hubert, 1959: 12. Philippines; Solomon Is; Malaysia (Pen).
barnetti Wirth & Hubert, 1959: 32. Malaysia (Pen); PNG (Bismarck Arch, Bougainville I, PNG); Philippines, Thailand.
culiciphagus Wirth & Hubert, 1959: 11. Solomon Is; Indonesia (Irian Jaya).
flavescens Macfie, 1937: 114 (*anophelis* var.). Malaysia (Pen); PNG (PNG), Solomon Is; Philippines, Thailand.
palpifer Das Gupta & Ghosh, 1956: 122. India; PNG (Bismarck Arch, PNG), Solomon Is; widesp. Oriental Reg.

Unplaced species of *Culicoides* Latreille

- antennalis** Lee & Reye, 1953: 386. Australia (NSW); Australia (Vic).
ardentissimus Tokunaga, 1940*a*: 216. Micronesia; Belau.
ardleyi Tokunaga, 1962*b*: 474. PNG (PNG); PNG (Bougainville I), Solomon Is.
australiensis Kieffer, 1917*a*: 188. PNG (PNG).
bancrofti Lee & Reye, 1953: 387. Australia (NSW); Australia (Qld, Vic).
belkini Wirth & Arnaud, 1969: 509. French Polynesia (Society Is); American Samoa, Cook Is, Fiji, French Polynesia (Tuamotu Arch), Solomon Is.
bougainvillae Tokunaga, 1962*b*: 492. PNG (Bougainville I).
bundyensis Lee & Reye, 1955: 239. Australia (NSW); Australia (ACT, Qld).
cancrisocius Macfie, 1946: 15. Fiji.
circumbasalis Tokunaga, 1959: 232. Indonesia (Irian Jaya); PNG (Bismarck Arch).
claggi Tokunaga *in* Tokunaga & Murachi, 1959: 338. Bonin Is.
cordiger Macfie, 1934*b*: 193. Malaysia (Pen); Australia (NT, Qld), PNG (Bismarck Arch); Philippines.
magnesianus Lee & Reye, 1953: 358. Australia (Qld).
coronalis Lee & Reye, 1955: 234. Australia (Qld); Australia (NT).

- costalis* Tokunaga, 1963*b*: 132. PNG (Bougainville I); PNG (Bismarck Arch).
crassus Tokunaga, 1962*b*: 508. PNG (PNG).
cuniculus Lee & Reye, 1953: 389. Australia (Qld); Australia (NSW, NT).
dycei Lee & Reye, 1953: 390. Australia (NSW); widesp. Australia.
flavidorsalis Tokunaga, 1959: 245. PNG (PNG).
fulbrighti Lee & Reye, 1963: 361. Australia (NSW); Australia (Qld).
gladysae Kettle, Elson & Dyce, 1976: 173. Australia (Qld); Australia (NSW).
henryi Lee & Reye, 1963: 360. Australia (Qld); Australia (NSW).
hollandiensis Tokunaga, 1959: 226. Indonesia (Irian Jaya).
hornsbysensis Lee & Reye, 1963: 361. Australia (NSW).
hyalinus Tokunaga, 1962*b*: 472. PNG (PNG); Indonesia (Irian Jaya).
immaculatus Lee & Reye, 1953: 375. Australia (Qld); Australia (NT), PNG (PNG).
inflatipalpalis Tokunaga, 1963*b*: 125. PNG (PNG).
interrogatus Lee & Reye, 1963: 358. Australia (NSW); Australia (Qld).
kusaiensis Tokunaga, 1940*a*: 215. Micronesia; Belau, Marshall Is; Malaysia (Pen, Sabah).
leanderensis Lee & Reye, 1963: 355. Australia (Qld).
leei Tokunaga, 1960: 72. PNG (Bismarck Arch); N Australia, Indonesia (Irian Jaya), PNG (PNG).
immaculatus, Tokunaga, 1959, not Lee & Reye, 1953, misid.
longior Hagan & Reye, 1986: 340. Australia (Qld).
longiradialis Tokunaga, 1962*b*: 499. PNG (PNG).
mackerrasi Lee & Reye, 1963: 355. Australia (NT); Australia (NSW, Qld).
mackerasi, error for *mackerrasi*.
maculiscutellaris Tokunaga, 1959: 249. Indonesia (Irian Jaya); PNG (PNG).
magnipictus Tokunaga, 1962*b*: 494. PNG (PNG).
marksi Lee & Reye, 1953: 392. Australia (NSW); widesp. Australia, PNG (PNG).
marmoratus Skuse, 1889*e*: 304 (*Ceratopogon*). Australia (NSW); Australia (Qld), PNG (PNG).
mcmillani Lee & Reye, 1953: 391. Australia (NSW); Australia (Qld, Vic).
meijerei Kieffer, 1919*a*: 192 (as *meijereri*; n. n. for *guttipennis* de Meijere). Indonesia (Irian Jaya).
guttipennis de Meijere, 1906*b*: 69. Indonesia (Irian Jaya). [Preocc. Coquillett, 1901.]
melanesiae Macfie, 1939*b*: 368. PNG (Bismarck Arch); Australia (Qld), PNG (PNG).
molestus Skuse, 1889*e*: 305 (*Ceratopogon*). Australia (NSW); Australia (Qld, Vic).
mollis Edwards, 1928*c*: 55. Western Samoa; American Samoa, Fiji, Solomon Is.
monothecalis Tokunaga, 1962*b*: 509. PNG (PNG); PNG (Bismarck Arch).
morensis Lee & Reye, 1955: 239. Australia (NSW); Australia (Qld).
multimaculatus Taylor, 1918*b*: 169. Australia (Vic); ?Australia (SA).
mykutowyczi Lee & Reye, 1963: 359. Australia (NSW); Australia (Qld).
neomelanesiae Tokunaga, 1963*b*: 123. PNG (Bismarck Arch, PNG).
melanesiae, Tokunaga, 1962, not Macfie, 1939, misid.
novairelandi Tokunaga, 1962*b*: 512. PNG (Bismarck Arch); PNG (Bougainville I, PNG).
ornatus Taylor, 1913: 73. Australia (Qld); Australia (NT, WA), PNG (PNG).
palauensis Tokunaga in Tokunaga & Murachi, 1959: 348. Belau.
pallidizonatus Tokunaga, 1963*b*: 135. PNG (PNG).
pallidothorax Lee & Reye, 1963: 362. Australia (NT).
papuensis Tokunaga, 1962*b*: 513. PNG (PNG).
parvimaculatus Lee & Reye, 1953: 391. Australia (NSW); Australia (Qld).
paulipictus Tokunaga, 1977: 45. PNG (PNG).
peliliouensis Tokunaga in Tokunaga & Esaki, 1936: 55. Belau; Micronesia; Malaysia (Pen), Philippines, Thailand.
platiradius Tokunaga, 1963*b*: 128. PNG (PNG).
polynesiae Wirth & Arnaud, 1969: 518. American Samoa.
pseudostigmatus Tokunaga, 1959: 234. Indonesia (Irian Jaya).
purus Lee & Reye, 1963: 352. Australia (NSW); Australia (ACT), PNG (Bismarck Arch).
pygmaeus Tokunaga, 1963*b*: 139. Indonesia (Irian Jaya).

- quaterifasciatus** Tokunaga, 1959: 240. PNG (Bismarck Arch).
rabauli Macfie, 1939b: 367. PNG (Bismarck Arch); E Australia, PNG (PNG).
angularis Lee & Reye, 1953: 384. Australia (NSW).
sabroskyi Tokunaga in Tokunaga & Murachi, 1959: 336. Belau.
samoensis Wirth & Arnaud, 1969: 513. American Samoa; Western Samoa.
sigmoidus Lee & Reye, 1963: 359. Australia (ACT); Australia (NSW).
subimmaculatus Lee & Reye, 1953: 375. Australia (NSW); Australia (Qld, SA, Vic), Indonesia (Irian Jaya).
submagnesianus Tokunaga, 1962b: 484. PNG (PNG).
tripallidus Tokunaga, 1959: 220. PNG (PNG).
tritenuifasciatus Tokunaga, 1959: 242. PNG (PNG).
trizonatus Tokunaga, 1963b: 134. PNG (PNG).
victoriae Macfie, 1941: 67. Australia (Vic); widesp. Australia, Indonesia (Irian Jaya), PNG (PNG).
magnimaculatus Lee & Reye, 1953: 388. Australia (NSW).
waringi Lee & Reye, 1955: 240. Australia (WA); Australia (SA, Vic).
xanthoceras Kieffer, 1917a: 186. PNG (PNG).

Genus PARADASYHELEA Macfie

- PARADASYHELEA** Macfie, 1940a: 17. Type species: *Dasyhelea brevipalpis* Ingram & Macfie, 1931, orig. des.
albipunctata Wirth & Lee, 1959b: 116. Australia (NSW).
egregia Macfie, 1932a: 36 (*Dasyhelea*). NZ (NZ).
harrisoni Wirth, 1981: 384. NZ (Auckland Is).
minuta Wirth & Lee, 1959b: 118. Australia (NSW); Australia (Qld).
reyei Elson-Harris & Kettle, 1985a: 233. Australia (Qld).

Tribe CERATOPOGONINI

Genus ALLOHELEA Kieffer

- ALLOHELEA** Kieffer, 1917b: 364. Type species: *Sphaeromias pulchripennis* Kieffer, 1911, orig. des.
basiflava Tokunaga, 1963a: 248 (*Monohalea*). PNG (PNG).
harpagonifera Debenham, 1972: 9 (*Monohalea*). Australia (ACT); Australia (NSW, Vic).
insularis Tokunaga, 1941: 115 (*Monohalea*). Micronesia; Belau.
papuae Tokunaga, 1963a: 245 (*Monohalea*). PNG (Bismarck Arch); PNG (PNG); Indonesia (Kalimantan), Malaysia (Pen).
solidipedalis Tokunaga, 1963a: 247 (*Monohalea*). PNG (PNG); Australia (NT, Qld).
tricuspis Debenham, 1972: 10 (*Monohalea*). Australia (NSW); Australia (Qld).
yorkensis Debenham, 1972: 27 (*Monohalea*). Australia (Qld); Australia (NT).

Genus ALLUAUDOMYIA Kieffer

- ALLUAUDOMYIA** Kieffer, 1913e: 12. Type species: *Alluaudomyia imparunguis* Kieffer, 1913, orig. des.
alpina Debenham, 1971: 146. Australia (NSW).
annulipes Wirth & Delfinado, 1964: 637. Thailand; Australia (NT, Qld), PNG (PNG); Malaysia (Pen).
 ssp. **australiensis** Debenham, 1971: 133. Australia (Qld); Australia (NT), PNG (PNG).
appendiculata Debenham, 1971: 151. Australia (NSW); Australia (ACT, Qld).
astera Tokunaga, 1963a: 222. PNG (Bougainville I).
bicornis Debenham, 1971: 159. Australia (NT); Australia (NSW, Qld).
bifasciata Tokunaga, 1963a: 220. PNG (Bismarck Arch); Indonesia (Irian Jaya), PNG (PNG), Solomon Is.
bipunctata Tokunaga & Murachi, 1959: 356. Belau; Micronesia.
boucheti Clastrier, 1986: 194. New Caledonia (New Caledonia).

- brandti** Tokunaga, 1963a: 223. PNG (PNG); Australia (NT).
epsteini Giles & Wirth, 1987: 459. New Caledonia (New Caledonia).
exigua Clastrier, 1986: 193. New Caledonia (New Caledonia).
fragmentum Debenham, 1971: 163. Australia (NT).
fumosipennis Debenham, 1971: 135. Australia (NT); Australia (NSW, Qld).
immaculata Tokunaga, 1963a: 219. Indonesia (Irian Jaya).
insulana Tokunaga & Murachi, 1959: 358. Micronesia; PNG (Bismarck Arch).
insulicola Tokunaga & Murachi, 1959: 361. Micronesia.
jimmensis Tokunaga, 1963a: 229. PNG (PNG); Indonesia (Irian Jaya).
latipennis Skuse, 1889e: 308 (*Ceratopogon*). Australia (NSW).
maculosipennis Tokunaga, 1940d: 154 (key) [1940e: 181]. Micronesia; Belau; Sri Lanka, Taiwan.
melanesiae Clastrier, 1986: 190. New Caledonia (New Caledonia).
monopunctata Tokunaga & Murachi, 1959: 354. Micronesia.
mouensis Giles & Wirth, 1987: 463. New Caledonia (New Caledonia).
neocaledoniensis Clastrier, 1986: 188. New Caledonia (New Caledonia).
pacifica Clastrier, 1986: 195. New Caledonia (New Caledonia).
papuae Tokunaga, 1963a: 217. PNG (Bismarck Arch); PNG (PNG).
personata Debenham, 1971: 133. Australia (Qld).
petersi Tokunaga, 1963a: 228. PNG (PNG).
platipyga Tokunaga, 1963a: 221. PNG (PNG).
poguei Giles & Wirth, 1987: 461. New Caledonia (New Caledonia).
reyei Debenham, 1971: 157. Australia (NT); Australia (Qld, WA).
smeei Tokunaga, 1963a: 230. PNG (Bismarck Arch); PNG (PNG).
spinosipes Tokunaga, 1962a: 206. Ryukyu Is; PNG (PNG); widesp. Oriental Reg.
novaguineae Tokunaga, 1963a: 224. PNG (PNG).
novaguineana, error for *novaguineae*.
tenuistylata Tokunaga, 1959: 296. Indonesia (Irian Jaya); Australia (Qld), PNG (PNG).
tillierorum Clastrier, 1986: 191. New Caledonia (New Caledonia).
tokunagai Wirth & Delfinado, 1964: 633 (n. n. for *splendida* Tokunaga). PNG (Bismarck Arch); Australia (NT, Qld), PNG (PNG).
splendida Tokunaga, 1963a: 216. PNG (Bismarck Arch). [Preocc. Winnertz, 1852.]
unguistyla Debenham, 1971: 139. Australia (NSW); Australia (Qld).
varia Debenham, 1971: 154. Australia (Qld); Australia (NSW).
verecunda Debenham, 1971: 143. PNG (PNG).

Genus AUSTROHELEA Wirth & Grogan

- AUSTROHELEA** Wirth & Grogan, 1988: 22. Type species: *Monohelea shannoni* Wirth & Blanton, 1972, orig. des.
antipodalis Ingram & Macfie, 1931b: 205 (*Monohelea*). NZ (NZ).
brevipes Lee, 1948c: 355 (*Monohelea*). Australia (WA).
campbellensis Tokunaga, 1964b: 289 (*Monohelea*). NZ (Campbell I).
ferruginea Macfie, 1932a: 49 (*Monohelea*). NZ (NZ).
tasmaniensis Lee, 1948c: 354 (*Monohelea*). Australia (Tas).
tonnoiri Macfie, 1932a: 46 (*Monohelea*). NZ (NZ).

Genus BRACHYPOGON Kieffer

- BRACHYPOGON** Kieffer, 1899: 69. Type species: *Ceratopogon vitiosus* Winnertz, 1852, orig. des.
insulicola Tokunaga in Tokunaga & Murachi, 1959: 350 (*Ceratopogon*). Micronesia.
kraussi Grogan & Wirth, 1981: 93. Solomon Is.
maai Tokunaga, 1964c: 298 (*Ceratopogon*). Indonesia (Irian Jaya).
novaguineae Tokunaga, 1964c: 294 (*Ceratopogon*). PNG (PNG).
papuensis Tokunaga, 1964c: 296 (*Ceratopogon*). PNG (PNG).

peregrinator Edwards, 1928c: 56 (*Ceratopogon*). Western Samoa.
petersi Tokunaga, 1964c: 293 (*Ceratopogon*). PNG (PNG).
tokunagai Grogan & Wirth, 1981: 96. Solomon Is.

Genus CHIMAEROHELEA Debenham

CHIMAEROHELEA Debenham, 1988: 801. Type species: *Chimaerohelea caligula* Debenham, 1988, orig. des.
caligula Debenham, 1988: 803. Australia (Qld).

Genus DOWNESHELEA Wirth & Grogan

DOWNESHELEA Wirth & Grogan, 1988: 50. Type species: *Monohalea stonei* Wirth, 1953, orig. des.
leei Debenham, 1972: 16 (*Monohalea*). Australia (NSW).
mcdanieli Tokunaga in Tokunaga & Murachi, 1959: 411 (*Monohalea*). Belau.
nigra Tokunaga, 1963a: 243 (*Monohalea*). PNG (PNG).
sepikensis Debenham, 1972: 13 (*Monohalea*). PNG (PNG).
unimaculata Debenham, 1972: 5 (*Monohalea*). Australia (NSW).
xanthogonua Tokunaga, 1963a: 242 (*Monohalea*). PNG (PNG).

Genus ECHINOHELEA Macfie

ECHINOHELEA Macfie, 1940b: 187. Type species: *Echinohelea ornatipennis* Macfie, 1940, orig. des.
australiensis Debenham, 1970c: 152. Australia (ACT); Australia (NSW), New Caledonia (New Caledonia).
flava Tokunaga, 1963a: 235. PNG (Bismarck Arch); PNG (PNG).
hardyi Tokunaga, 1963a: 235. Indonesia (Irian Jaya); PNG (PNG).
laensis Tokunaga, 1963a: 236. PNG (PNG).
longirostris Debenham, 1970c: 147. PNG (PNG).
moresbyensis Debenham, 1970c: 149. PNG (PNG).
notipes Debenham, 1970c: 152. Australia (Qld).
pallida Debenham, 1970c: 155. PNG (PNG).
papuensis Tokunaga, 1966: 112. PNG (PNG).
pictipennis Tokunaga, 1963a: 231. PNG (PNG); Indonesia (Irian Jaya).
zonata Tokunaga, 1963a: 234. PNG (PNG).

Genus HETEROCERATOPOGON Wirth & Grogan

HETEROCERATOPOGON Wirth & Grogan, 1988: 56. Type species: *Heteroceratopogon poguei* Wirth & Grogan, 1988, orig. des.
poguei Wirth & Grogan, 1988: 57. New Caledonia (New Caledonia).

Genus HETEROHELEA Clastrier

HETEROHELEA Clastrier, 1985a: 272. Type species: *Heterohelea minutissima* Clastrier, 1985, orig. des.
minutissima Clastrier, 1985a: 272. New Caledonia (New Caledonia).

Genus MACRUROHELEA Ingram & Macfie

MACRUROHELEA Ingram & Macfie, 1931a: 203. Type species: *Macrurohelea caudata* Ingram & Macfie, 1931, orig. des.
commoni Lee, 1963: 339. Australia (NSW); Australia (Qld).
dycei Grogan & Wirth, 1985: 133. Australia (NSW); Australia (Qld).
leei Grogan & Wirth, 1985: 131. Australia (Qld).

Genus MONOHELEA Kieffer

- MONOHELEA** Kieffer, 1917b: 294. Type species: *Monohelea hieroglyphica* Kieffer, 1917, orig. des.
- accipiter** Debenham, 1972: 34. Australia (NSW).
- albiclavatoris** Tokunaga & Murachi, 1959: 407. Micronesia.
- annulata** Debenham, 1972: 18. Australia (NT); Australia (Qld).
- bidens** Debenham, 1972: 35. Australia (ACT); Australia (NSW).
- candescens** Debenham, 1972: 25. Australia (NSW).
- chazeau** Clastrier, 1985c: 752. New Caledonia (New Caledonia).
- clavipes** Macfie, 1932a: 48. NZ (NZ).
- dorsotaeniata** Clastrier, 1985c: 756. New Caledonia (New Caledonia).
- falcata** Debenham, 1972: 7. Australia (NSW); Australia (Qld).
- gemina** Debenham, 1972: 39. Australia (NSW).
- impunctatipennis** Clastrier, 1985c: 748. New Caledonia (New Caledonia).
- inflatistyla** Debenham, 1972: 30. Australia (NSW); Australia (ACT, Qld).
- lutea** Tokunaga, 1963a: 241. PNG (PNG); Australia (NT, Qld).
- minuscula** Clastrier, 1985c: 758. New Caledonia (New Caledonia).
- novaguinensis** Tokunaga, 1959a: 309. NG (PNG).
- nubeculosa** Macfie, 1932a: 45. NZ (NZ).
- ornatissima** Clastrier, 1985c: 750. New Caledonia (New Caledonia).
- palauensis** Tokunaga in Tokunaga & Murachi, 1959: 408. Belau.
- palustria** Debenham, 1972: 28. Australia (Qld); Australia (NSW, Vic).
- phoenix** Debenham, 1972: 38. Australia (NSW).
- ponticulifera** Debenham, 1972: 38. Australia (ACT); Australia (NSW).
- radialis** Debenham, 1972: 22. Australia (Qld); Australia (NT).
- scutofasciata** Clastrier, 1985c: 754. New Caledonia (New Caledonia).
- smeei** Tokunaga, 1963a: 239. PNG (Bismarck Arch); Australia (NT, Qld).
- tigrina** Skuse, 1889e: 306 (*Ceratopogon*). Australia (NSW); ?PNG (PNG).
- umbrosipennis** Debenham, 1972: 32. Australia (Qld); Australia (NSW, Tas), PNG (PNG).

Genus NANNOHELEA Grogan & Wirth

- NANNOHELEA** Grogan & Wirth, 1980: 374. Type species: *Ceratopogon bourioni* Clastrier, 1961, orig. des.
- fuscipennis** Tokunaga, 1964c: 298 (*Ceratopogon*). PNG (Bismarck Arch); PNG (PNG); Malaysia (Pen).

Genus SERROMYIA Meigen

- SERROMYIA** Meigen, 1818: 83. Type species: *Ceratopogon femoratus* Meigen, 1804 (as *femoratus* Fab. with *Serromyia geniculata* Meigen in synonymy), mon. [Generic name first published in synonymy with *Ceratopogon* but available under I.C.Z.N. Code Art. 11(d).]
- esakii** Tokunaga, 1940a: 218. Micronesia; Belau; Malaysia (Sabah), Philippines.
- reyei** Debenham, 1970d: 161. Australia (NT).

Genus STILOBEZZIA Kieffer

- STILOBEZZIA** Kieffer, 1911b: 118. Type species: *Stilobezzia festiva* Kieffer, 1911, orig. des.

Subgenus ACANTHOHELEA Kieffer

- ACANTHOHELEA** Kieffer, 1917a: 198 (as gen.). Type species: *Acanthohelea pruinoso* Kieffer, 1917, mon.
- NEOSTILOBEZZIA** Goetghebuer, 1934: 53. Unavailable name; genus-group name proposed after 1930 without type-species designation.
- NEOSTILOBEZZIA** Wirth, 1953: 63. Type species: *Ceratopogon ochraceus* Winnertz, 1852, orig. des.

- acrotrichis** Tokunaga, 1959: 301. PNG (PNG); Indonesia (Irian Jaya).
albiabdominalis Tokunaga & Murachi, 1959: 368. Micronesia.
antipodalis Ingram & Macfie, 1931b: 203. NZ (NZ).
armatibiae Tokunaga, 1963a: 260. PNG (Bismarck Arch); PNG (PNG).
badia Macfie, 1932a: 41. NZ (NZ).
biangulata Tokunaga, 1963a: 274. PNG (PNG).
bifurcata Tokunaga, 1959: 307. PNG (PNG); Indonesia (Irian Jaya), PNG (Bismarck Arch).
brandti Tokunaga, 1963a: 276. PNG (PNG); Indonesia (Irian Jaya).
calcaris Tokunaga & Murachi, 1959: 382. Micronesia; Belau.
centripictura Tokunaga, 1963a: 252. Indonesia (Irian Jaya).
clavicula Tokunaga, 1963a: 270. PNG (PNG).
crassiforceps Tokunaga, 1963a: 266. PNG (PNG); Indonesia (Irian Jaya), PNG (Bismarck Arch).
eliptaminensis Tokunaga, 1963a: 265. PNG (PNG).
fitzroyensis Lee, 1948c: 350. Australia (NSW).
fulviscuta Tokunaga & Murachi, 1959: 399. Micronesia; Belau.
fuscigenua Tokunaga & Murachi, 1959: 373. Belau; Micronesia.
fusciscutellata Tokunaga & Murachi, 1959: 376. Micronesia.
fusistylata Tokunaga & Murachi, 1959: 392. Micronesia.
genitalis Lee, 1948c: 349. Australia (Tas).
gressitti Tokunaga & Murachi, 1959: 372. Micronesia.
latiforceps Tokunaga *in* Tokunaga & Murachi, 1959: 386. Belau; Micronesia.
 ssp. **latiforceps** s. str. Belau; Micronesia.
 ssp. **setigera** Tokunaga *in* Tokunaga & Murachi, 1959: 387. Belau.
longistyla Tokunaga, 1941: 117. Micronesia.
maai Tokunaga, 1963a: 264. Indonesia (Irian Jaya); PNG (PNG).
nebulosa Tokunaga, 1963a: 252. PNG (PNG).
nigriapicalis Tokunaga, 1963a: 275. PNG (PNG).
ohakunei Ingram & Macfie, 1931b: 202. NZ (NZ).
pallidicornis Tokunaga & Murachi, 1959: 366. Belau.
papuae Tokunaga, 1963a: 272. PNG (PNG).
postcervix Tokunaga, 1959: 303. Indonesia (Irian Jaya); PNG (Bismarck Arch, PNG).
pruinosa Kieffer, 1917a: 198 (*Acanthohelea*). Australia (NSW).
reflexa Tokunaga, 1963a: 269. PNG (PNG).
samoana Edwards, 1928c: 57. Western Samoa.
setigeripes Tokunaga, 1963a: 268. PNG (PNG); Indonesia (Irian Jaya), PNG (Bismarck Arch).
setigeriscutellata Tokunaga & Murachi, 1959: 394. Micronesia.
similisegmenta Tokunaga, 1959: 306. PNG (PNG); Indonesia (Irian Jaya), PNG (Bismarck Arch).
spadicicoxalis Tokunaga & Murachi, 1959: 396. Micronesia; Belau.
spadicitibialis Tokunaga & Murachi, 1959: 370. Micronesia; PNG (PNG).
spinifemorata Tokunaga, 1963a: 262. Indonesia (Irian Jaya).
subroror Tokunaga, 1941: 116. Micronesia; Belau.
tasmaniensis Lee, 1948c: 347. Australia (Tas).
tenuiforceps Tokunaga & Murachi, 1959: 384. Belau.
thyridofera Tokunaga, 1959: 304. Indonesia (Irian Jaya); PNG (PNG).
tonnoiri Macfie, 1932a: 43. NZ (NZ).
truncata Tokunaga *in* Tokunaga & Murachi, 1959: 389. Micronesia; Belau.
unifascidorsalis Tokunaga *in* Tokunaga & Murachi, 1959: 379. Belau.
vittula Tokunaga, 1963a: 260. PNG (PNG).

Subgenus **DEBENHAMIA** Wirth & Grogan

DEBENHAMIA Wirth & Grogan, 1988: 89. Type species: *Stilobezzia collessi* Wirth & Grogan, 1988, orig. des.

collessi Wirth & Grogan, 1988: 90. Australia (NSW); Australia (Qld).
dycei Wirth & Grogan, 1988: 92. Australia (WA).

Subgenus STILOBEZZIA Kieffer

STILOBEZZIA Kieffer, 1911b: 118 (as gen.). Type species: *Stilobezzia festiva* Kieffer, 1911, orig. des.
basizonata Tokunaga, 1963a: 254. Indonesia (Irian Jaya).
bizonata Tokunaga, 1963a: 256. PNG (PNG); PNG (Bismarck Arch).
flavizonata Tokunaga, 1963a: 263. Indonesia (Irian Jaya).
hollandia Tokunaga, 1959: 299. Indonesia (Irian Jaya); PNG (Bismarck Arch, PNG).
inermipes Kieffer, 1912a: 8. Sri Lanka; Belau, Guam, Micronesia; widesp. Oriental Reg.
esakiana Tokunaga, 1940d: 155 (key) [1940e: 183]. Micronesia.
inusitata Johannsen, 1946: 190 (*Eukraiohelea*). Guam.
longihamata Tokunaga, 1963a: 258. PNG (PNG).
maculipes Macfie, 1933a: 103. French Polynesia (Marquesas).
notata de Meijere, 1907: 210 (*Ceratopogon*). Indonesia (Java); Indonesia (Irian Jaya); China, Japan, widesp. Oriental Reg.
palpalis Tokunaga, 1963a: 255. Indonesia (Irian Jaya).
pictipes Kieffer, 1917a: 191. Australia (NSW); widesp. Australia.
subviridis Macfie, 1934c: 218. Indonesia (Sumatra); Belau, Indonesia (Irian Jaya), Micronesia; Japan, widesp. Oriental Reg.
esakii Tokunaga, 1940d: 155 (key) [1940e: 183]. Micronesia.
tenebrosa Macfie, 1933a: 101. French Polynesia (Marquesas); French Polynesia (Society Is).
unifasciata Tokunaga, 1963a: 262. Indonesia (Irian Jaya).

Tribe HETEROMYIINI

Genus CLINOHELEA Kieffer

CLINOHELEA Kieffer, 1917b: 295. Type species: *Ceratopogon variegatus* Winnertz, 1852, orig. des.
dryas Debenham, 1974: 12. Australia (Qld); Australia (NSW).
flagellata Edwards, 1916b: 500 (*Palpomyia*). Australia (NT).
hollandiae Tokunaga, 1966: 111. Indonesia (Irian Jaya).
papuensis Tokunaga, 1966: 109. PNG (PNG); Australia (Qld), Indonesia (Irian Jaya).
tasmaniensis Lee, 1948d: 65. Australia (Tas); Australia (ACT, NSW, Qld).
tenuipes Tokunaga, 1966: 110. Indonesia (Irian Jaya).
tenuissima Kieffer, 1917a: 195 (*Sphaeromyias*). PNG (PNG).

Genus METAHELEA Edwards

METAHELEA Edwards, 1929b: 12. Type species: *Metahelea metallescens* Edwards, 1929, mon.
bifasciata Kieffer, 1917a: 194 (*Palpomyia*). Australia (Qld); Australia (NT).

Genus PELLUCIDOMYIA Macfie

PELLUCIDOMYIA Macfie, 1939a: 99. Type species: *Pellucidomyia ugandae* Macfie, 1939, orig. des.
dycei Debenham, 1970a: 137. Australia (Qld).
leei Wirth, 1960: 2. Australia (Qld); Australia (NSW, Vic).

Tribe SPHAEROMIINI

Genus CRISPOMYIA Debenham

CRISPOMYIA Debenham, 1974: 48. Type species: *Crispomyia receptaculum* Debenham, 1974, orig. des.

monacha Debenham, 1974: 52. Australia (WA).

receptaculum Debenham, 1974: 51. Australia (WA).

Genus **HEBETULA** Wirth & Debenham

HEBETULA Wirth & Debenham, 1977: 282. Type species: *Mixohalea lemur* Debenham, 1974, orig. des.

armiger Debenham, 1974: 20 (*Mixohalea*). Australia (Qld).

atypipennis Tokunaga, 1966: 127 (*Palpomyia*). Indonesia (Irian Jaya).

bisulca Debenham, 1974: 24 (*Mixohalea*). Australia (WA).

centonis Debenham, 1974: 21 (*Mixohalea*). Australia (Qld).

gladiator Debenham, 1974: 23 (*Mixohalea*). Australia (ACT).

imparunguis Kieffer, 1917a: 194 (*Palpomyia*). PNG (PNG); ?Indonesia (Irian Jaya).

australiensis Kieffer, 1917b: 364 (*Mixohalea*; unrec. n. n. for *imparunguis* Kieffer).

infirmior Debenham, 1974: 28 (*Mixohalea*). Australia (NSW).

latifrons Debenham, 1974: 29 (*Mixohalea*). Australia (Qld).

lemur Debenham, 1974: 32 (*Mixohalea*). Australia (WA).

luctus Debenham, 1974: 31 (*Mixohalea*). Australia (NSW).

maai Tokunaga, 1966: 115 (*Xenohalea*). Indonesia (Irian Jaya).

matileorum Clastrier, 1985a: 268. New Caledonia (New Caledonia).

muroides Debenham, 1974: 30 (*Mixohalea*). Australia (NSW).

novaebritainica Tokunaga, 1966: 130 (*Palpomyia*). PNG (Bismarck Arch).

novaecaledoniae Clastrier, 1985a: 271. New Caledonia (New Caledonia).

sarmensis Tokunaga, 1966: 116 (*Xenohalea*). Indonesia (Irian Jaya).

sensilis Debenham, 1974: 27 (*Mixohalea*). Australia (NSW).

tonnoiri Lee, 1948d: 66 (*Xenohalea*). Australia (Tas); E Australia, PNG (PNG).

versicolor Debenham, 1974: 35 (*Mixohalea*). Australia (WA).

Genus **HOMOHELEA** Kieffer

HOMOHELEA Kieffer, 1917b: 363. Type species: *Palpomyia abjecta* Kieffer, 1913, des. Macfie, 1940a: 26.

kraussi Tokunaga in Tokunaga & Murachi, 1959: 415 (*Sphaeromyias*). Guam. **N. comb.**

Genus **JENKINSHELEA** Macfie

JENKINSIA Kieffer, 1913d: 165. Type species: *Jenkinsia setosipennis* Kieffer, 1913, orig. des. [Preocc. Jordan & Evermann, 1896.]

JENKINSHELEA Macfie, 1934b: 177 (n. n. for *Jenkinsia*).

papuae Tokunaga, 1966: 104. PNG (PNG).

Genus **JOHANNSENYOMYIA** Malloch

JOHANNSENYOMYIA Malloch, 1915a: 332. Type species: *Johannsenomyia halteralis* Malloch, 1915 [= *Ceratopogon argentatus* Loew, 1861], des. Wirth, 1952a: 211.

DICROHELEA Kieffer, 1917b: 363. Type species: *Palpomyia filicornis* Kieffer, 1910, des. Macfie, 1940a: 26.

abdominalis Tokunaga, 1966: 120 (*Dicrohelea*). PNG (PNG); Indonesia (Irian Jaya).

lalokiensis Lee, 1948d: 69 (*Dicrohelea*). PNG (PNG).

maai Tokunaga, 1966: 122 (*Dicrohelea*). Indonesia (Irian Jaya); PNG (Bismarck Arch).

novaebritannica Tokunaga, 1966: 118 (*Dicrohelea*). PNG (Bismarck Arch).

novaeaguineae Tokunaga, 1966: 119 (*Dicrohelea*). Indonesia (Irian Jaya); Australia (Qld), PNG (PNG).

novaguineae, error for *novaeaguineae*.

petersi Tokunaga, 1966: 151 (*Probezzia*). PNG (PNG).

scriba Debenham, 1974: 39. PNG (PNG).

Genus LANATOMYIA Debenham

LANATOMYIA Debenham, 1974: 43. Type species: *Lanatomyia miles* Debenham, 1974, orig. des.
electra Debenham, 1974: 46. Australia (NT); Australia (Qld, WA).
miles Debenham, 1974: 44. Australia (ACT); Australia (NSW, Qld).

Genus LEEHELEA Debenham

LEEHELEA Debenham, 1974: 54. Type species: *Homohoelea hollandiensis* Tokunaga, 1966, orig. des.
hispida Debenham, 1974: 57. Australia (NSW); Australia (Qld).
hollandiensis Tokunaga, 1966: 123 (*Homohoelea*). Indonesia (Irian Jaya); PNG (PNG); Thailand.
leucophaeata Debenham, 1974: 60. Australia (Qld).
wasselli Debenham, 1974: 58. Australia (Qld); Australia (NT).

Genus MACKERRASOMYIA Debenham

MACKERRASOMYIA Debenham, 1970b: 140. Type species: *Heteromyia brevibarba* Kieffer, 1917, orig. des.
brevibarba Kieffer, 1917a: 192 (*Heteromyia*). Australia (Qld); Australia (NSW).
marginata Debenham, 1970b: 143. Australia (Qld).

Genus MALLOCHOHELEA Wirth

MALLOCHOHELEA Wirth, 1962: 278. Type species: *Johannsenomyia albibasis* Malloch, 1915, orig. des. *JOHANNSENOMYIA*, authors, not Malloch, 1915, misid.
aspera Debenham, 1974: 88. Australia (Tas).
australiensis Lee, 1948d: 67 (*Johannsenomyia*). Australia (ACT); Australia (NSW).
hardyi Tokunaga, 1966: 139 (*Nilobezzia*). PNG (PNG).
sabroskyi Tokunaga in Tokunaga & Murachi, 1959: 412 (*Palpomyia*). Belau; Micronesia. **N. comb.**
satelles Debenham, 1974: 86. Australia (NSW); Australia (ACT, Qld).
senex Debenham, 1974: 89. Australia (Qld).
stygia Debenham, 1974: 85 (n. n. for *nigra* Tokunaga). PNG (PNG).
nigra Tokunaga, 1966: 124 (*Johannsenomyia*). PNG (PNG). [Preocc. Goetghebuer, 1933.]
tumidicornis Debenham, 1974: 87. Australia (Qld).

Genus NEOSPHAEROMIAS Das Gupta & Wirth

NEOSPHAEROMIAS Das Gupta & Wirth, 1971: 875. Type species: *Neosphaeromias gibbus* Das Gupta & Wirth, 1971, orig. des.
choriodes Grogan & Wirth, 1982: 198. Solomon Is.

Genus NILOBEZZIA Kieffer

NILOBEZZIA Kieffer, 1921g: 24. Type species: *Nilobezzia armata* Kieffer, 1921, mon.
aranea Debenham, 1974: 72. Australia (NSW); Australia (Qld).
basispinigera Debenham, 1974: 74. Australia (Qld); Australia (NSW, Vic).
curticornis Kieffer, 1917a: 196 (*Bezzia*). Australia (NSW); widesp. Australia.
triquetrinotata Debenham, 1974: 64. Australia (NSW). **N. syn.**
fuscitarsis Debenham, 1974: 78. Australia (Qld); Australia (NSW, NT).
maai Tokunaga, 1966: 140. Indonesia (Irian Jaya); PNG (PNG).
simplicior Debenham, 1974: 77. Australia (NSW); Australia (Qld, WA).
subtilicrinus Debenham, 1974: 80. Australia (NT); Australia (Qld).
virago Debenham, 1974: 68. Australia (NT); Australia (Qld, WA).
whartoni Lee, 1948b: 343. PNG (PNG); Australia (NSW, Qld).

Genus SPHAEROMIAS Curtis

SPHAEROMIAS Stephens, 1829a: 52 [1829b: 236]. *Nomen nudum*.

SPHAEROMIAS Curtis, 1829: 285. Type species: *Sphaeromias albomarginatus* Curtis, 1829, orig. des. *SPHAEROMYIA* Agassiz, 1847: 346 (unjust. emend. of *Sphaeromias*).
decoratus Debenham, 1974: 54. Australia (Qld).

Tribe PALPOMYIINI

Genus BEZZIA Kieffer

BEZZIA Kieffer, 1899: 69. Type species: *Ceratopogon ornatus* Meigen, 1830, orig. des.

adamsi Tokunaga & Murachi, 1959: 418. Micronesia.

australiensis Kieffer, 1917a: 197. Australia (NSW).

badiifemorata Tokunaga & Murachi, 1959: 419. Micronesia.

clarkei Tokunaga & Murachi, 1959: 423. Micronesia.

conjunctivena Tokunaga, 1966: 147. PNG (PNG).

dividua Tokunaga, 1966: 148. Indonesia (Irian Jaya).

echinata Clastrier, 1985b: 49. New Caledonia (New Caledonia).

excavata Tokunaga, 1966: 145. PNG (PNG).

gressitti Tokunaga, 1966: 149. PNG (PNG).

inflatifemora Tokunaga, 1966: 141. PNG (PNG).

longiforceps Tokunaga, 1959: 312. Indonesia (Irian Jaya).

maai Tokunaga, 1966: 149. Indonesia (Irian Jaya).

maculifemorata Tokunaga & Murachi, 1959: 424. Micronesia; Belau.

melanesiae Clastrier, 1985b: 45. New Caledonia (New Caledonia).

micronyx Kieffer, 1922b: 162. Taiwan; Indonesia (Irian Jaya); Indonesia, Malaysia (Sabah), Nepal, Philippines, Ryukyu Is, Thailand, Vietnam.

crassistyla Tokunaga, 1966: 143. Indonesia (Irian Jaya).

nigrialula Tokunaga *in* Tokunaga & Murachi, 1959: 428. Belau.

nigrofasciata Tokunaga *in* Tokunaga & Murachi, 1959: 429. Micronesia.

papuae Tokunaga, 1966: 150. Indonesia (Irian Jaya).

pediaureola Tokunaga & Murachi, 1959: 427. Micronesia.

riparia Clastrier, 1985b: 51. New Caledonia (New Caledonia).

sexspinosa Edwards, 1928c: 57. American Samoa; Western Samoa.

spinositibialis Tokunaga & Murachi, 1959: 421. Micronesia; Belau.

sulfureicruris Tokunaga & Murachi, 1959: 425. Micronesia.

tasmaniensis Lee, 1948b: 341. Australia (Tas).

vittata Tokunaga, 1966: 146. Indonesia (Irian Jaya).

zonatipes Tokunaga, 1966: 146. Indonesia (Irian Jaya).

Genus PALPOMYIA Meigen

PALPOMYIA Meigen, 1818: 82. Type species: *Ceratopogon flavipes* Meigen, 1804 (as *flavipes* with *Palpomyia geniculata* Meigen in synonymy), mon. [Generic name first published in synonymy with *Ceratopogon* but available under I.C.Z.N. Code Art. II(d).]

ancorifera Tokunaga, 1966: 129. PNG (PNG).

brandti Tokunaga, 1966: 138. PNG (PNG).

cantuaris Ingram & Macfie, 1931b: 207. NZ (NZ).

decima Lee, 1948d: 58. Australia (Tas).

inflatifemoralis Tokunaga, 1966: 131. PNG (PNG).

jimmensis Tokunaga, 1966: 126. PNG (PNG).

lacorum Debenham, n. n. Indonesia (Irian Jaya).

abdominalis Tokunaga, 1966: 106 (*Heteromyia*). Indonesia (Irian Jaya). [Preocc. Kieffer, 1922.]

- laensis** Tokunaga, 1966: 134. PNG (PNG); Indonesia (Irian Jaya).
lanceolifera Tokunaga, 1966: 133. PNG (PNG).
maai Tokunaga, 1966: 132. PNG (PNG).
magna Tokunaga, 1966: 130. PNG (PNG).
nelsoni Macfie, 1932a: 50. NZ (NZ).
novaeguineae Tokunaga, 1966: 135. PNG (PNG); Indonesia (Irian Jaya), PNG (Bismarck Arch).
novaeirelandensis Tokunaga, 1966: 135. PNG (Bismarck Arch).
pallida Tokunaga, 1966: 107 (*Heteromyia*). PNG (PNG).
rastellifera Macfie, 1932a: 51. NZ (NZ).
serraticauda Tokunaga, 1966: 128. PNG (PNG).
stella Tokunaga, 1966: 136. Indonesia (Irian Jaya); PNG (Bismarck Arch).
subalpina Lee, 1948d: 59. Australia (ACT).
tasmanica Lee, 1948d: 62 (*Heteromyia*). Australia (Tas).
urpicifemoris Macfie, 1932a: 52. NZ (NZ).