

Family ASILIDAE

Asilidae, commonly known as robber flies, are found worldwide and are comprised of about 5,000 species. Adults of extant forms are all predaceous on other insects where prey can sometimes be genus- or species-specific. They can be found resting in sunny places or waiting in ambush on rocks, twigs, or grass blades. Larvae are either predaceous on the eggs, larvae, and pupae of other insects or are ectoparasitic on other larvae. Many are free living in the soil.

The fossil record for Asilidae is rather good (57 species in 27 genera) considering that they are most often found in xerophilic habitats, which are not the most suitable for known fossil or amber deposits. Hull (1962) gave a fairly complete review of the fossil forms known at that time.

In addition to the determined forms listed below, Handlirsch (1910: 124) recorded undetermined material from the Oligocene deposits of Quesnel, British Columbia, Canada.

Guérin-Méneville (1838a: 170) identified two Oligocene Sicilian amber specimens as *Dasygogon*. However, Szadziewski (1988: 12) pointed out that one is most likely a chironomid and the other is a different, but unnamed nematocerous specimen.

A fossil genus, *Permessus*, was recorded (but without description or characters) by both Rudel (1940) and Timon-David (1944) as being described by Piton & Théobald in an article in the *Mém. Soc. Sci. Nancy* for 1939. Carpenter (1992) also cited this article in his bibliography. However, a search of that journal for the year 1939 or a few years subsequent to or previous to 1939 failed to find a published article by Piton & Théobald mentioning the genus *Permessus*. Until publication of the name is found, it is listed in this catalog as a *nomen nudum*.

Ref.: Hull (1962, world review of extant and fossil taxa).

Genus ARARIPOGON Grimaldi

ARARIPOGON Grimaldi, 1990: 173. Type species *Araripogon axelrodi* Grimaldi, 1990, by original designation.

axelrodi Grimaldi, 1990: 173. NT: Brazil (Upper Cretaceous) [C].

Genus ASILOPSIS Cockerell

ASILOPSIS Cockerell, 1920a: 250. Type species: *Asilopsis fuscus* Cockerell, 1920, by original designation.

fuscus Cockerell, 1920a: 250. NE: USA (Eocene) [C].

Genus ASILUS Linnaeus

- ***ASILUS** Linnaeus 1758: 605. Type species: *Asilus crabroniformis* Linnaeus, 1758, by subsequent designation of Latreille (1810: 443).
- amelancheiris** Cockerell, 1911: 79. NE: USA (Oligocene) [C].
- angustialis** Zhang, 1989a: 363. PA: China (Miocene) [C].
- angustifrons* Loew, 1850b: 40. *Nomen nudum*. [Preoccupied by Loew, 1849.]
- antiquus** Heer, 1849: 239. PA: Switzerland (Miocene) [C].
- bicolor** Heer, 1849: 241. PA: Croatia (Miocene) [C].
- brunneitibius** Zhang, 1989a: 362. PA: China (Miocene) [C].
- curculionis** Melander, 1947: 45. NE: USA (Oligocene) [C].
- deperditus** Heer, 1849: 240. PA: Switzerland (Miocene) [C].
- florissantinus** James, 1939: 44. NE: USA (Oligocene) [C].
- gurnetensis** Cockerell, 1921c: 470. PA: UK (England) (Eocene/Oligocene) [C].
- ignotus** Westwood *in* Brodie, 1845: pl. 7, fig. 19. PA: UK (England) (Lower Jurassic) [C].
- palaeolestes** Cockerell, 1921b: 31. NE: USA (Eocene) [C].
- sannoisiensis** Meunier, 1915b: 11. PA: France (Oligocene) [C].
- trichurus** Meunier, 1899e: 177. PA: Baltic Region (Eocene/Oligocene) [A].
- trichurus* Loew, 1850b: 40. *Nomen nudum*.
- wickhami** Cockerell, 1915a: 648. NE: USA (Oligocene) [C].

Genus CERATURGUS Wiedemann

- ***CERATURGUS** Wiedemann, 1824: 12. Type species: *Dasygogon aurulentus* Fabricius, 1805, by monotypy.
- ***CERATURGOPSIS** Johnson, 1903: 111. Type species: *Dasygogon cornutus* Wiedemann, 1828 [misidentification, = *Ceraturgus johnsoni* Martin, 1965], by original designation.
- praecursor** James, 1939: 46 (*Ceraturgopsis*). NE: USA (Oligocene) [C]. **New combination.**

Genus COPHURA Osten Sacken

- ***COPHURA** Osten Sacken, 1887b: 181. Type species: Type species: *Cophura sodalis* Osten Sacken, 1887, by monotypy.
- antiquella** Cockerell, 1913d: 213. NE: USA (Oligocene) [C].

Genus DIOCTRIA Meigen

***DIOCTRIA** Meigen, 1803: 270. Type species: *Asilus oelandicus* Linnaeus, 1758, by subsequent designation of Latreille (1810: 443).

florissantina Cockerell, 1909*b*: 58 (*Leptis*). NE: USA (Oligocene) [C].

jamesi Lewis, 1972*a*: 276. NE: USA (Oligocene) [C].

pulveris Cockerell, 1917*e*: 392. NE: USA (Oligocene) [C].

Genus HOLOPOGON Loew

***HOLOPOGON** Loew, 1847: 473. Type species: *Dasygogon nigripennis* Meigen, 1820, by subsequent designation of Coquillett (1910: 552).

archilestes Hull, 1960: 272. NE: USA (Oligocene) [C].

pilipes Loew, 1850*b*: 40 (*Dasygogon*). PA: Baltic Region (Eocene/Oligocene) [A].
[Species name validated by characters given in the key in Loew (1850*b*: 36) for the genus *Holopogon*. The key is to amber taxa and *pilipes* is the only named species listed in *Holopogon* as occurring in amber.]

Genus LEPTOGASTER Meigen

***LEPTOGASTER** Meigen, 1803: 269. Type species: *Asilus tipuloides* Linnaeus, 1758 [misidentification, = *Asilus cylindricus* De Geer, 1776], by monotypy.

falloti Théobald, 1937*a*: 242. PA: France (Oligocene) [C].

hellii Unger, 1841: 428. PA: Croatia (Miocene) [C].

prior Melander, 1947: 44. NE: USA (Oligocene) [C].

Genus LESTOMYIA Williston

***LESTOMYIA** Williston, 1883: 19. Type species: *Clavator sabulonum* Osten Sacken, 1877, by original designation.

miocenica James, 1939: 46. NE: USA (Oligocene) [C].

Genus MACHIMUS Loew

***MACHIMUS** Loew, 1849: 1. Type species: *Asilus chrysitis* Meigen, 1820, by subsequent designation of Coquillett (1910: 564).

kollmani Timon-David, 1944: 130. PA: France (Oligocene) [C].

Genus MICROSTYLUM Macquart

***MICROSTYLUM** Macquart, 1838: 26 (1839: 142). Type species: *Dasygogon venosus* Wiedemann, 1821, by subsequent designation of Back (1909: 213).

destructum Cockerell, 1909*h*: 254. NE: USA (Oligocene) [C].

wheeleri Cockerell, 1908*a*: 173. NE: USA (Oligocene) [C].

Genus NEOLOPHONOTUS Engel

***LOPHONOTUS** Macquart, 1838: 125 (1839: 241). Type species: *Lophonotus auribarbis* Macquart, 1838 [= *Asilus calcogaster* Wiedemann, 1819], by subsequent designation of Coquillett (1910: 562). [Preoccupied by Stephens, 1829.]

***NEOLOPHONOTUS** Engel, 1925: 347 (new replacement name for *Lophonotus* Macquart). Type species: *Lophonotus auribarbis* Macquart, 1838 [= *Asilus calcogaster* Wiedemann, 1819], automatic.

klebsi Meunier, 1908*e*: 19 (*Lophonotus*). PA: Baltic Region (Eocene/Oligocene) [A]. **New combination.**

Genus NICOCLES Jaenicke

***NICOCLES** Jaenicke, 1867: 355. Type species: *Nicocles analis* Jaenicke, 1867, by monotypy.

miocenicus Cockerell, 1909*h*: 255. NE: USA (Oligocene) [C].

Genus OMMATIUS Wiedemann

***OMMATIUS** Wiedemann, 1821*b*: 213. Type species: *Asilus marginellus* Fabricius, 1781, by subsequent designation of Coquillett (1910: 579).

fimbriatus Scarbrough & Poinar, 1992: 13. NT: Dominican Republic (Oligocene/Miocene) [A].

subtus Scarbrough & Poinar, 1992: 13. NT: Dominican Republic (Oligocene/Miocene) [A].

Genus PALAEOMOLOBRA Hull

PALAEOMOLOBRA Hull, 1962: 23. Type species: *Senobasis antiqua* James, 1939, by original designation.

antiqua James, 1939: 43 (*Senobasis*). NE: USA (Oligocene) [C].

Genus PERMESSUS Rudel

PERMESSUS Rudel, 1940: 17. Unavailable name; genus-group name proposed after 1930 without diagnosis, indication, or description.

asiloides Rudel, 1940: 17 (*Permessus*). *Nomen nudum*.

Genus PHILONICUS Loew

***PHILONICUS** Loew, 1849: 144. Type species: *Asilus albiceps* Meigen, 1820, by monotypy.

saxorum James, 1939: 44. NE: USA (Oligocene) [C].

Genus PILICA Curran

***PILICA** Curran, 1931: 20. Type species: *Laphria formidulosa* Walker, 1860, by original designation.

Unidentified sp.—NT: Mexico (Oligocene/Miocene) [A] (Poinar, 1992: 178).

Genus PROCTACANTHUS Macquart

***PROCTACANTHUS** Macquart, 1838: 120 (1839: 226). Type species: *Proctacanthus philadelphicus* Macquart, 1838, by subsequent designation of Coquillett (1910: 595).

fractus Cockerell, 1921c: 470. PA: UK (England) (Eocene/Oligocene) [C].

Genus PROTOLOEWINELLA Schumann

PROTOLOEWINELLA Schumann, 1984: 218. Type species: *Paraloewinella keilbachi* Schumann, 1984, by original designation.

PARALOEWINELLA. Incorrect original spelling of *Protolewinella* (Schumann, 1984: 218).

keilbachi Schumann, 1984: 218. PA: Germany (Oligocene) [A].

Genus PSEUDOPHRISSON Dürrenfeldt

PSEUDOPHRISSON Dürrenfeldt, 1968: 45. Type species: *Pseudophrisson primus* Dürrenfeldt, 1968, by original designation.

primus Dürrenfeldt, 1968: 45. PA: Germany (Pliocene) [C].

Genus SAROPOGON Loew

***SAROPOGON** Loew, 1847: 439 (as *Dasygogon* subgenus). Type species: *Dasygogon luctuosus* Wiedemann, 1820, by subsequent designation of Coquillett (1910: 603).

oblitescens Cockerell, 1914a: 102. NE: USA (Oligocene) [C].

Genus SENOBASIS Macquart

***SENOBASIS** Macquart, 1838: 52 (1839: 168). Type species: *Senobasis analis* Macquart, 1838, by subsequent designation of Bromley (1934: 332).

STENOBASIS Kertész, 1909a: 123 (unjustified emendation of *Senobasis* Macquart). Type species: *Senobasis analis* Macquart, 1838, automatic.

borealis James, 1939: 45. NE: USA (Oligocene) [C].

Genus SENOPROSOPIS Macquart

***SENOPROSOPIS** Macquart, 1838: 130 (1839: 246). Type species: *Senoprosopis diardii* Macquart, 1838, by monotypy.

STENOPROSOPUS Aldrich, 1905: 280 (unjustified emendation of *Senoprosopis* Macquart). Type species: *Senoprosopis diardii* Macquart, 1838, automatic.

Subgenus EOSENOPROSOPIS Hull

EOSENOPROSOPIS Hull, 1958: 37. Type species: *Senoprosopis romeri* Hull, 1958, by original designation.

beckeri Lewis, 1972a: 276. NE: USA (Oligocene) [C].

romeri Hull, 1958: 37. NE: USA (Oligocene) [C].

Unplaced to Subgenus of SENOPROSOPIS Macquart

eureka Melander, 1949: 36. NE: USA (Oligocene) [C].

Genus STENOCINCLIS Scudder

STENOCINCLIS Scudder, 1878c: 751. Type species: *Stenocinclis anomala* Scudder, 1878, by monotypy.

anomala Scudder, 1878c: 751. NE: USA (Eocene) [C].

Genus TARACTICUS Loew

***TARACTICUS** Loew, 1872a: 64 [1872b: 240]. Type species: *Dioctria octopunctata* Say, 1823, by monotypy.

contusus Cockerell, 1910c: 282. NE: USA (Oligocene) [C].

renovatus Cockerell, 1911: 80. NE: USA (Oligocene) [C].

Genus TIPULOGASTER Cockerell

***TIPULOGASTER** Cockerell, 1913d: 214. Type species: *Leptogaster badius* Loew, 1862 [= *Leptogaster glabrata* Wiedemann, 1828], by original designation.

***glabratus** Wiedemann, 1828: 534 (*Leptogaster*). Unknown [= North America]; NE: USA, Canada; NE: USA (Oligocene) [C].

***badius** Loew, 1862a: 188 (1864a: 58) (*Leptogaster*). NE: USA; NE: USA (Oligocene) [C].

Genus WILCOXIA James

***WILCOXIA** James, 1941: 38. Type species: *Wilcoxia cinerea* James, 1941, by original designation.

Unidentified sp.—NT: Dominican Republic (Oligocene/Miocene) [A] (Poinar, 1992: 178).