

## Family CHIRONOMIDAE

Members of the family Chironomidae, commonly called non-biting midges, are found worldwide in a wide range of habitats where the immature stages are an important component of aquatic ecosystems. Approximately, 5,000 species in over 300 genera are known from fossil and living forms. Adults of extant forms are short-lived but can be found in large mating swarms. Adults have been observed to feed on honeydew; other plant exudates may also serve as food sources. Larvae can be found in nearly every moist or aquatic habitat including the periphery of oceans. Some are free-living, but others produce tube-like cases composed of fine substrate. Chironomid larvae feed primarily on decaying organic matter and small plants and animals; others are totally carnivorous.

Certain groups or species are characteristic of certain aquatic environments, which makes the family an excellent indicator group of these habitats. Many chironomids are used in reconstructing paleoclimatic and paleoecological conditions in lentic and lotic habitats. Due to the abundance of extant genera and species that have been identified from numerous paleoenvironmental studies, it was not feasible to include all of them in this catalog. Some of these records have been included in the chironomid chapter of the Palearctic catalog (Ashe & Cranston, 1990) and the reader is referred to this work for more information on this family. Where species have not been included in previous catalogs, every attempt has been made to include named species here.

Chironomidae are abundant in the fossil record. Many are known from amber deposits where they have been recorded from the Cretaceous of Siberia (Zherichin & Sukacheva, 1973; Kalugina, 1976, 1980b), Canada (Boesel, 1937), and New Jersey (Grimaldi, 1990); the Miocene of Saxony (Zherichin, 1978), Myanmar (Schlee & Glockner, 1978), and Mexico (Hurd *et al.*, 1962); the Eocene of China (Hong, 1981) and the Caucasus (Zherichin, 1978); the Oligocene of the Dominican Republic (Poinar, 1992); and the Eocene/Oligocene of the Baltic region (Meunier, 1904a,c,d). The oldest amber chironomid fossil described thus far is *Libanochlites neocomicus* from the Lower Cretaceous of Lebanon (Brundin, 1976). Jurassic compression fossils have been described from eastern Asia by Kalugina in Kalugina & Kovalev (1985) and Zhang (1989b), and pupae of unnamed tanypodines were described and illustrated by Jell & Duncan (1986: 173–77) from the Lower Cretaceous deposits of Koonwarra, South Gippsland, Australia. Fujiyama & Nomura (1986: 11) recorded an unidentified specimen of this family from the Miocene deposits of Hachiya, Japan.

According to Borkent (1993), the undetermined “mesotendipedid” [= Chironomapterinae] recorded from the Cretaceous Santana Formation of Brazil by Grimaldi (1990) and Maisey (1991: 434) is actually a chironomid and not a chaoborid. Szadziewski (1988: 12) pointed out that one of two Oligocene

Sicilian amber specimens identified as *Dasypogon* by Guérin-Méneville (1838a: 170) is most likely a chironomid.

Ref.: Meunier (1904c, review of Baltic amber taxa); Ashe (1983, catalog of world genera).

### Genus AMBERASPINUS Evenhuis, new name

**ASPINUS** Hong, 1981: 52. Type species: *Aspinus orientalus* Hong, 1981, by original designation. [Preoccupied by Brandorff, 1973.] **New synonymy.**

**AMBERASPINUS** Evenhuis, 1994: in this work (**new replacement name** for *Aspinus* Hong). Type species: *Aspinus orientalus* Hong, 1981, automatic.

**amblopteres** Hong, 1981: 57 (*Aspinus*). PA: China (Eocene) [A]. **New combination.**

*ambropteres*. Incorrect original spelling of *amblopteres* (Hong, 1981: 6).

**orientalus** Hong, 1981: 6, 53 (*Aspinus*). PA: China (Eocene) [A]. **New combination.**

*orientales*. Incorrect original spelling of *orientalus* (Hong, 1981: 53).

**stenopteres** Hong, 1981: 54 (*Aspinus*). PA: China (Eocene) [A]. **New combination.**

### Genus BYTHOMYIA Zhang

**BYTHOMYIA** Zhang, 1989c: 155. Type species: *Bythomyia oryctes* Zhang, 1989, by original designation.

**oryctes** Zhang, 1989c: 155. PA: China (Miocene) [C].

### Genus CAMPTOCLADIUS Wulp

\***CAMPTOCLADIUS** Wulp, 1874: 133. Type species: *Tipula byssina* Schrank, 1803 [= *Tipula stercorarius* De Geer, 1776], by subsequent designation of Coquillett (1910: 518).

**flexuosus** Meunier, 1904c: 221 [1904d: 232]. PA: Baltic Region (Eocene/Oligocene) [A].

**sinuosus** Meunier, 1904c: 221 [1904d: 232]. PA: Baltic Region (Eocene/Oligocene) [A].

### Genus CHIRONOMOPSIS Handlirsch

**CHIRONOMOPSIS** Handlirsch, 1906a: 632. Type species: *Chironomus arrogans* Giebel, 1856, by monotypy.

[In the original description of *Chironomopsis*, *Chironomus extinctus* Westwood was questionably included, making the type species *Chironomus arrogans* by monotypy.]

**arrogans** Giebel, 1856: 250 (*Chironomus*). PA: UK (England) (Lower Cretaceous) [C].

**extincta** Westwood in Brodie, 1845: 121, pl. 4, fig. 5 (*Chironomus*). PA: UK (England) (Lower Cretaceous) [C].

### Genus CHIRONOMUS Meigen

**TENDIPES** Meigen, 1800: 17. Suppressed by I.C.Z.N. (1963: 339).

\***CHIRONOMUS** Meigen, 1803: 260. Type species: *Tipula plumosa* Linnaeus, 1758, by subsequent designation of Latreille (1810: 442).

**PALAEOLYCUS** Etheridge & Olliff, 1890: 11. Type species: *Palaeolycus problematicus* Etheridge & Olliff, 1890, by monotypy. [Preoccupied by Marck, 1863.]

**abietarius** Meunier, 1904c: 203 [1904d: 214]. PA: Baltic Region (Eocene/Oligocene) [A].

*aequalis* Keilbach, 1982: 351. *Nomen nudum*.

*anchora* Keilbach, 1982: 352. *Nomen nudum*.

**aquistanarus** Théobald, 1937a: 347. PA: France (Oligocene) [C].

*berendtii* Keilbach, 1982: 351. *Nomen nudum*.

*bicalcaratus* Keilbach, 1982: 352. *Nomen nudum*.

*bitramus* Keilbach, 1982: 352. *Nomen nudum*.

*bituminosus* Heyden, 1870: 247. PA: Germany (Oligocene) [C].

**brevirostris** Giebel, 1856: 251. PA: Baltic Region (Eocene/Oligocene) [A].

**caliginosus** Meunier, 1904c: 264 [1904d: 275]. PA: Baltic Region (Eocene/Oligocene) [A].

*uliginosus*. Incorrect original spelling of *caliginosus* Meunier, 1904c: 202 [1904d: 213].

*coarctatus* Keilbach, 1982: 351. *Nomen nudum*.

*cognatus* Keilbach, 1982: 351. *Nomen nudum*.

*conformis* Keilbach, 1982: 351. *Nomen nudum*.

*conjunctus* Keilbach, 1982: 351. *Nomen nudum*.

**depletus** Scudder, 1877a: 744. NE: USA (Eocene) [C].

**elegantulus** Meunier, 1904c: 199 [1904d: 210]. PA: Baltic Region (Eocene/Oligocene) [A].

*erosus* Keilbach, 1982: 352. *Nomen nudum*.

**escheri** Giebel, 1856: 252. PA: Baltic Region (Eocene/Oligocene) [A].

*excellens* Keilbach, 1982: 351. *Nomen nudum*.

- gaudini** Heer, 1864: 394. PA: Germany (Oligocene) [C].  
*gracilicornis* Keilbach, 1982: 352. *Nomen nudum*.
- haustus** Meunier, 1912c: 190 [1912d: 362]. AF: Tanzania (Pleistocene/Holocene) [K].
- inclusus** Meunier, 1912c: 190 [1912d: 361]. AF: Tanzania (Pleistocene/Holocene) [K].
- incrassatus* Keilbach, 1982: 351. *Nomen nudum*.
- inglorius** Meunier, 1904c: 201 [1904d: 212]. PA: Baltic Region (Eocene/Oligocene) [A].
- kirklandi** Sublette, 1969: 119. NE: USA (Pliocene/Pleistocene) [C].
- lacunus** Meunier, 1904c: 205 [1904d: 216]. PA: Baltic Region (Eocene/Oligocene) [A].
- lacus** Meunier, 1904c: 205 [1904d: 216]. PA: Baltic Region (Eocene/Oligocene) [A].
- lanceatus* Keilbach, 1982: 352. *Nomen nudum*.
- leptocerus* Keilbach, 1982: 352. *Nomen nudum*.
- leucomelas** Gistl, 1831: 247. NT: Brazil (Holocene) [K].
- longicornis* Keilbach, 1982: 352. *Nomen nudum*.
- longipalpus* Keilbach, 1982: 352. *Nomen nudum*.
- meticulosus** Meunier, 1904c: 200 [1904d: 211]. PA: Baltic Region (Eocene/Oligocene) [A].
- meyeri** Heer, 1849: 188. PA: Baltic Region (Eocene/Oligocene) [A].
- microcephalus** Giebel, 1856: 251. PA: Baltic Region (Eocene/Oligocene) [A].
- minimus* Hong in Hong *et al.*, 1974: 124. PA: China (Eocene) [A]. [Preoccupied by Meigen, 1818; no new replacement name proposed here.]
- monilis* Keilbach, 1982: 352. *Nomen nudum*.
- obsoletus** Heer, 1849: 190. PA: Switzerland (Miocene) [C].
- oeningensis** Heer, 1849: 189. PA: Switzerland (Miocene) [C].
- paludosus** Meunier, 1904c: 204 [1904d: 215]. PA: Baltic Region (Eocene/Oligocene) [A].
- patens* Scudder, 1877a: 744. NE: USA (Eocene) [C]. [Preoccupied by Walker, 1856; no new replacement name proposed here.]
- pausatus** Melander, 1949: 14. NE: USA (Oligocene) [C].
- pliocenicus* Piton, 1936: 23. *Nomen nudum*.
- primaevus** Melander, 1949: 13. NE: USA (Oligocene) [C].
- primitivus** Mani, 1945: 62. OR: India (Miocene) [A]. [Preoccupied by Johannsen, 1912; no new replacement name proposed here.]
- pristinus** Melander, 1949: 13. NE: USA (Oligocene) [C].
- proterus** Melander, 1949: 14. NE: USA (Oligocene) [C].
- requiescens** Melander, 1949: 15. NE: USA (Oligocene) [C].
- scopa* Keilbach, 1982: 351. *Nomen nudum*.
- scopula* Keilbach, 1982: 351. *Nomen nudum*.
- scudderiellus** Cockerell, 1916c: 98. NE: USA (Oligocene) [C].
- separatus* Keilbach, 1982: 351. *Nomen nudum*. [Preoccupied by Walker, 1856.]
- sepultus** Heer, 1849: 190. PA: Croatia (Miocene) [C].

- sepultus*** Meunier, 1912c: 190 [1912d: 362]. AF: Tanzania (Pleistocene/Holocene) [K]. [Preoccupied by Heer, 1849; no new replacement name proposed here.]
- sepultus*** Melander, 1949: 16. NE: USA (Oligocene) [C]. [Preoccupied by Heer, 1849; no new replacement name proposed here.]
- serresi*** Théobald, 1937a: 347. PA: France (Oligocene) [C].
- spectabilis*** Keilbach, 1982: 351. *Nomen nudum.*
- stylatus*** Keilbach, 1982: 352. *Nomen nudum.*
- styliger*** Keilbach, 1982: 352. *Nomen nudum.*
- subobscurus*** Meunier, 1904c: 202 [1904d: 213]. PA: Baltic Region (Eocene/Oligocene) [A].
- tenebricosus*** Meunier, 1904c: 203 [1904d: 214]. PA: Baltic Region (Eocene/Oligocene) [A].
- tenebrosus*** Meunier, 1904c: 199 [1904d: 210]. PA: Baltic Region (Eocene/Oligocene) [A].
- tenuicornis*** Keilbach, 1982: 352. *Nomen nudum.*
- uliginosus*** Meunier, 1904c: 204 [1904d: 215]. PA: Baltic Region (Eocene/Oligocene) [A].
- umbraticus*** Meunier, 1904c: 200 [1904d: 211]. PA: Baltic Region (Eocene/Oligocene) [A].
- umbrosus*** Meunier, 1904c: 201 [1904d: 212]. PA: Baltic Region (Eocene/Oligocene) [A].
- ungulatus*** Keilbach, 1982: 351. *Nomen nudum.*
- ungulinus*** Keilbach, 1982: 351. *Nomen nudum.*
- vagabundus*** Meunier, 1904c: 198 [1904d: 209]. PA: Baltic Region (Eocene/Oligocene) [A].
- venerabilis*** Etheridge & Olliff, 1890: 7. AU: Australia (Pliocene) [C].  
*problematicus* Etheridge & Olliff, 1890: 11 (*Palaeolycus*). AU: Australia (Pliocene) [C].
- verticillatus*** Keilbach, 1982: 351. *Nomen nudum.*
- ?Unidentified sp.—PA: Japan (Pliocene/Pleistocene) [C] (Fujiyama & Iwao, 1975: 45).

### Genus CLINOTANYPUS Kieffer

- \****CLINOTANYPUS*** Kieffer, 1913a: 157. Type species: *Clinotanypus fuscosignatus* Kieffer, 1913, by subsequent designation of Sublette & Sublette (1965: 145).
- vagans*** Zhang, 1989a: 327. PA: China (Miocene) [C].

- pygmaeus** Meunier, 1904c: 208 [1904d: 219]. PA: Baltic Region (Eocene/Oligocene) [A].
- robustus** Meunier, 1904c: 209 [1904d: 220]. PA: Baltic Region (Eocene/Oligocene) [A].
- saltuosus** Meunier, 1904c: 214 [1904d: 225]. PA: Baltic Region (Eocene/Oligocene) [A].
- variabilis** Meunier, 1904c: 210 [1904d: 221]. PA: Baltic Region (Eocene/Oligocene) [A].

### Genus DIAMESA Meigen

\***DIAMESA** Meigen in Gistl, 1835: 66. Type species: *Diamesa cinerella* Meigen, 1835, by monotypy.

[The genus-group name *Diamesa* was originally proposed in synonymy with *Lestremia* (in Cecidomyiidae) by Meigen (1830: 308), but was not validated thereafter; thus, that non-use of *Diamesa* allows it to be considered a *nomen nudum*. See Ashe (1983: 20) for details on the nomenclatural history of this name.]

**extincta** Melander, 1949: 12. NE: USA (Oligocene) [C].

### Genus ELECTROTenIA Kalugina

**ELECTROTAENIA** Kalugina, 1974: 49. *Nomen nudum*.

**ELECTROTenIA** Kalugina, 1980b: 91. Type species: *Electrotenia brundini* Kalugina, 1980, by original designation.

**brundini** Kalugina, 1980b: 90. PA: Russia (Siberia) (Upper Cretaceous) [A].

### Genus EOCENITENDIPES Evenhuis, new name

**MICROTENDIPES** Hong, 1981: 47. Type species: *Microtendipes melainus* Hong, 1981, by original designation. [Preoccupied by Kieffer, 1915.]  
New synonymy.

**EOCENITENDIPES** Evenhuis, 1994: in this work (new replacement name for *Microtendipes* Hong). Type species: *Microtendipes melainus* Hong, 1981, automatic.

**labrosus** Hong, 1981: 48 (*Microtendipes*). PA: China (Eocene) [A]. New combination.

**longifemerales** Hong, 1981: 50 (*Microtendipes*). PA: China (Eocene) [A]. New combination.

**melainus** Hong, 1981: 47 (*Microtendipes*). PA: China (Eocene) [A]. New combination.

**Genus EURYCNE~~M~~US Wulp**

- \***EURYCNE~~M~~US** Wulp, 1874: 135. Type species: *Chironomus elegans* Meigen, 1818 [= *Chironomus crassipes* Panzer, 1813], by original designation.
- appendiculatus** Meunier, 1904c: 220 [1904d: 231]. PA: Baltic Region (Eocene/Oligocene) [A].
- hyalinus** Meunier, 1904c: 220 [1904d: 231]. PA: Baltic Region (Eocene/Oligocene) [A].
- pilosellus** Meunier, 1904c: 220 [1904d: 231]. PA: Baltic Region (Eocene/Oligocene) [A].
- stagnum** Meunier, 1904c: 219 [1904d: 230]. PA: Baltic Region (Eocene/Oligocene) [A].
- tenellus** Meunier, 1904c: 219 [1904d: 230]. PA: Baltic Region (Eocene/Oligocene) [A].
- vulgaris** Meunier, 1904c: 218 [1904d: 229]. PA: Baltic Region (Eocene/Oligocene) [A].

**Genus FUSHUNITENDIPES Hong**

- FUSHUNITENDIPES** Hong, 1981: 31. Type species: *Fushunitendipes eocenicus* Hong, 1981, by original designation.
- FUSHUNITENDIPES**. Incorrect original spelling of *Fushunitendipes* (Hong, 1981: 6).
- FUSHUNITENSIPES**. Incorrect original spelling of *Fushunitendipes* (Hong, 1981: 44).
- eocenicus** Hong, 1981: 33. PA: China (Eocene) [A].
- limnetes** Hong, 1981: 44. PA: China (Eocene) [A].
- limnetus*. Incorrect original spelling of *limnetes* (Hong, 1981: 6, 36).
- lobotes** Hong, 1981: 37. PA: China (Eocene) [A].
- labotes*. Incorrect original spelling of *lobotes* (Hong, 1981: 6).
- longipalpulatus** Hong, 1981: 42. PA: China (Eocene) [A].
- longipapulatus*. Incorrect original spelling of *longipalpulatus* (Hong, 1981: 160).
- platamodes** Hong, 1981: 45. PA: China (Eocene) [A].
- trichodes** Hong, 1981: 41. PA: China (Eocene) [A].
- uracanthodes** Hong, 1981: 39. PA: China (Eocene) [A].
- uracanthoides*. Incorrect original spelling of *uracanthodes* (Hong, 1981: 6, 23, 40, 162).

### Genus GURVANOMYIA Kalugina

**GURVANOMYIA** Kalugina, 1986: 121. Type species: *Gurvanomyia magna* Kalugina, 1986, by original designation.

**magna** Kalugina, 1986: 122. PA: Mongolia (Upper Jurassic/Lower Cretaceous) [C].

**moderata** Kalugina, 1986: 122. PA: Mongolia (Upper Jurassic/Lower Cretaceous) [C].

*modesta*. Incorrect original spelling of *moderata* (Sinitsa, 1986: 14).

### Genus JENTZSCHIELLA Meunier

**JENTZSCHIELLA** Meunier, 1899b: 162. Type species: *Jentzschella jentzschi* Evenhuis, 1993, by **present designation**.

[*Jentzschella* originally proposed without included named species.]

The type designated is from the first inclusion of a named species within the genus in accordance with the *Code*.]

**ZENTZSCHIELLA**. Incorrect subsequent spelling of *Jentzschella* (Meunier, 1899e: pl. 1).

**jentzschi** Evenhuis, 1994: in this work (**new species**). PA: Baltic Region (Eocene/Oligocene) [A].

[Species-group name valid by bibliographic reference to characters given in Meunier (1899b: 162) and Meunier (1899e: pl. 1) for the genus *Jentzschella*.]

### Genus JUROCHLUS Kalugina

**JUROCHLUS** Kalugina in Kalugina & Kovalev, 1985: 95. Type species: *Jurochlus sibiricus* Kalugina, 1985, by original designation.

**rigor** Kalugina in Kalugina & Kovalev, 1985: 96. PA: Russia (Siberia) (Middle Jurassic) [C].

**sibiricus** Kalugina in Kalugina & Kovalev, 1985: 95. PA: Russia (Siberia) (Middle Jurassic) [C].

### Genus JUROPELOPIA Evenhuis, new name

**MESOPELOPIA** Kalugina in Kalugina & Kovalev, 1985: 110. Type species:

*Mesopelopia fittkaui* Kalugina, 1985, by original designation. [Preoccupied by Roback, 1971.] **New synonymy**.

**JUROPELOPIA** Evenhuis, 1994: in this work (**new replacement name** for *Mesopelopia* Kalugina). Type species: *Mesopelopia fittkaui* Kalugina, 1985, automatic.

**fittkaui** Kalugina in Kalugina & Kovalev, 1985: 110 (*Mesopelopia*). PA: Russia (Siberia) (Lower/Middle Jurassic) [C]. **New combination.**

### Genus LIBANOCHLITES Brundin

**LIBANOCHLITES** Brundin, 1976: 149. Type species: *Libanochlites neocomicus* Brundin, 1976, by monotypy.

**neocomicus** Brundin, 1976: 149. PA: Lebanon (Lower Cretaceous) [A].

### Genus MAILONIA Kalugina

**MAILONIA** Kalugina in Kalugina & Kovalev, 1985: 106. Type species: *Mailonia pallida* Kalugina, 1985, by original designation.

**pallida** Kalugina in Kalugina & Kovalev, 1985: 107. PA: Russia (Siberia) (Middle Jurassic) [C].

### Genus MANLAYAMYIA Kalugina

**MANLAYAMYIA** Kalugina, 1980a: 63. Type species: *Manlayamyia litorhina* Kalugina, 1980, by original designation.

**dabeigouensis** Zhang, 1991: 557. PA: China (Upper Jurassic) [C].

**litorhina** Kalugina, 1980a: 64. PA: Mongolia (Upper Jurassic/Lower Cretaceous) [C].

### Genus METRIOCNEMUS Wulp

\***METRIOCNEMUS** Wulp, 1874: 136. Type species: *Chironomus albolineatus* Meigen, 1818, by subsequent designation of Coquillett (1910: 569).

**cretatus** Boesel, 1937: 52. NE: Canada (Upper Cretaceous) [A].

**Genus MOGSONOMUS Kalugina**

- MOGSONOMUS** Kalugina *in* Kalugina & Kovalev, 1985: 100. Type species: *Mogsonomus tophus* Kalugina, 1985, by original designation.
- tophus** Kalugina *in* Kalugina & Kovalev, 1985: 101. PA: Russia (Siberia) (Middle Jurassic) [C].

**Genus NOMOCHIRUS Gil Collado**

- NOMOCHIRUS** Gil Collado, 1926: 91. Type species: *Nomochirus sampelayoi* Gil Collado, 1926, by monotypy.
- sampelayoi** Gil Collado, 1926: 94. PA: Spain (Paleocene) [C].

**Genus ORTHOCLADIUS Wulp**

- \***ORTHOCLADIUS** Wulp, 1874: 132. Type species: *Tipula stercoraria* De Geer, 1776 [misidentification, = *Chironomus oblidens* Walker, 1856], by subsequent designation of Coquillett (1910: 581).

Unidentified spp.—PA: Germany (Oligocene) [C] (Statz, 1944c: 131–33).

**Genus ORUSA Lin**

- ORUSA** Lin, 1980: 226. Type species: *Orusa barba* Lin, 1980, by monotypy.
- barba** Lin, 1980: 226. PA: China (Upper Jurassic) [C].

**Genus ORYCTOCHLUS Kalugina**

- ORYCTOCHLUS** Kalugina *in* Kalugina & Kovalev, 1985: 83. Type species: *Oryctochlus vulcanus* Kalugina, 1985, by original designation.
- affinis** Kalugina *in* Kalugina & Kovalev, 1985: 91. PA: Russia (Siberia) (Middle/Upper Jurassic) [C].
- contiguus** Zhang, 1991: 561. PA: China (Upper Jurassic) [C].
- longilobus** Kalugina *in* Kalugina & Kovalev, 1985: 89. PA: Russia (Siberia) (Middle/Upper Jurassic) [C].
- minor** Kalugina *in* Kalugina & Kovalev, 1985: 91. PA: Russia (Siberia) (Middle/Upper Jurassic) [C].
- minutus** Kalugina *in* Kalugina & Kovalev, 1985: 92. PA: Russia (Siberia) (Middle/Upper Jurassic) [C].

**vulcanus** Kalugina *in* Kalugina & Kovalev, 1985: 85. PA: Russia (Siberia) (Middle/Upper Jurassic) [C].

#### Genus PALAEOTANYPUS Meunier

**PALAEOTANYPUS** Meunier, 1904c: 178 [1904d: 189]. Type species: *Tanypterus filiformis* Meunier, 1904, by monotypy.

**filiformis** Meunier, 1904c: 226 [1904d: 237] (*Tanypterus*). PA: Baltic Region (Eocene/Oligocene) [A].

#### Genus PODONOMIUS Kalugina

**PODONOMIUS** Kalugina *in* Kalugina & Kovalev, 1985: 101. Type species: *Podonomius tugnuicus* Kalugina, 1985, by original designation.

**minimus** Kalugina *in* Kalugina & Kovalev, 1985: 105. PA: Russia (Siberia) (Middle Jurassic) [C].

**rotundatus** Kalugina *in* Kalugina & Kovalev, 1985: 104. PA: Russia (Siberia) (Middle Jurassic) [C].

**simplex** Kalugina *in* Kalugina & Kovalev, 1985: 104. PA: Russia (Siberia) (Middle Jurassic) [C].

**splendidus** Kalugina *in* Kalugina & Kovalev, 1985: 104. PA: Russia (Siberia) (Lower/Middle Jurassic) [C].

**tugnuicus** Kalugina *in* Kalugina & Kovalev, 1985: 103. PA: Russia (Siberia) (Lower/Middle Jurassic) [C].

**undulatus** Kalugina *in* Kalugina & Kovalev, 1985: 105. PA: Russia (Siberia) (Middle Jurassic) [C].

#### Genus PROCLADIUS Skuse

\***PROCLADIUS** Skuse, 1889: 283. Type species: *Procladius paludicola* Skuse, 1889, by subsequent designation of Coquillett (1910: 594).

**perditus** Heyden, 1870: 247 (*Chironomus*). PA: Germany (Oligocene) [C].

### Genus SHINLUSTIA Kalugina

**SHINLUSTIA** Kalugina, 1986: 123. Type species: *Shinlustia irae* Kalugina, 1986, by original designation.

**SCHINLUSTIA**. Incorrect original spelling of *Shinlustia* (Sinitsa, 1986: 39, 42).  
*applanata* Sinitsa, 1986: 39, 42 (*Schinlustia*). *Nomen nudum*.  
**irae** Kalugina, 1986: 124. PA: Mongolia (Lower Cretaceous) [C].

### Genus SINORYCTOCHLUS Zhang

**SINORYCTOCHLUS** Zhang, 1991: 563. Type species: *Sinoryctochlus insolitus* Zhang, 1991, by original designation.

**insolitus** Zhang, 1991: 564. PA: China (Upper Jurassic) [C].

### Genus SMITTIA Holmgren

\***SMITTIA** Holmgren, 1869: 47. Type species: *Chironomus brevipennis* Boheman, 1865, by monotypy.

**veta** Boesel, 1937: 53 (*Spaniotoma*). NE: Canada (Upper Cretaceous) [A].

### Genus SPANIOTOMA Philippi

\***SPANIOTOMA** Philippi, 1865: 629. Type species: *Spaniotoma bivittata* Philippi, 1865, by subsequent designation of Johannsen (1905: 162).

**conservata** Boesel, 1937: 52. NE: Canada (Upper Cretaceous) [A].

### Genus TANYPUS Meigen

**PELOPIA** Meigen, 1800: 18. Suppressed by I.C.Z.N. (1963: 339).

\***TANYPUS** Meigen, 1803: 260. Type species: *Tipula cincta* Fabricius, 1794 [misidentification, = *Tipula punctipennis* Meigen, 1818], by subsequent designation of Latreille (1810: 442) (as “*Chironomus cinctus*, Fab.”).

**compactus** Meunier, 1904c: 223 [1904d: 234]. PA: Baltic Region (Eocene/Oligocene) [A].

**dorminans** Heyden, 1870: 248 (*Chironomus*). PA: Germany (Oligocene) [C].  
**eridanus** Meunier, 1904c: 224 [1904d: 235]. PA: Baltic Region (Eocene/Oligocene) [A].

**fusiformis** Meunier, 1904c: 222 [1904d: 233]. PA: Baltic Region (Eocene/Oligocene) [A].

- longicornis** Meunier, 1904c: 225 [1904d: 236]. PA: Baltic Region (Eocene/Oligocene) [A].
- obscurus** Statz, 1944c: 129 (*Pelopia*). PA: Germany (Oligocene) [C]. [Preoccupied by Macquart, 1826; no new replacement name proposed here.]
- pagasti** Statz, 1944c: 130 (*Pelopia*). PA: Germany (Oligocene) [C].
- palaemon** Heyden, 1870: 249 (*Chironomus*). PA: Germany (Oligocene) [C].
- parvus** Meunier, 1904c: 225 [1904d: 236]. PA: Baltic Region (Eocene/Oligocene) [A].
- porrectus** Meunier, 1904c: 223 [1904d: 234]. PA: Baltic Region (Eocene/Oligocene) [A].
- subrotundatus** Meunier, 1904c: 24 [1904d: 235]. PA: Baltic Region (Eocene/Oligocene) [A].
- thienemanni** Statz, 1944c: 128 (*Pelopia*). PA: Germany (Oligocene) [C].

#### Genus TANYTARSUS Wulp

- \***TANYTARSUS** Wulp, 1874: 134. Type species: *Chironomus signatus* Wulp, 1858, by subsequent designation of I.C.Z.N. (1961: 361).
- \***CALOPSECTRA** Kieffer, 1909: 50. Type species: *Tanytarsus gregarius* Kieffer, 1909, by subsequent designation of Kieffer (1921: 26).
- insularis** Meunier, 1904c: 217 [1904d: 228]. PA: Baltic Region (Eocene/Oligocene) [A].
- maritimus** Meunier, 1904c: 218 [1904d: 229]. PA: Baltic Region (Eocene/Oligocene) [A].
- wulpii** Meunier, 1904c: 218 [1904d: 229]. PA: Baltic Region (Eocene/Oligocene) [A].
- Unidentified sp.—NE: USA (Miocene) [P] (Palmer, 1957: 274).

#### Genus TENDIPOPSIS Hong & Wang

- TENDIPOPSIS** Hong & Wang, 1990: 131. Type species: *Tendipopsis colorata* Hong & Wang, 1990, by original designation.
- TENDIPOSIS**. Incorrect original spelling of *Tendipopsis* (Regional Geological Surveying Team, 1990: table 3).
- colorata** Hong & Wang, 1990: 131. PA: China (Upper Jurassic) [C].

**Genus TINACTUM Lin**

**TINACTUM** Lin, 1980: 226. Type species: *Tinactum solusum* Lin, 1980, by original designation.

**solutum** Lin, 1980: 226. PA: China (Upper Jurassic) [C].

**Genus TOPHOCLADIUS Kalugina**

**TOPHOCLADIUS** Kalugina in Kalugina & Kovalev, 1985: 107. Type species: *Tophocladus stygialis* Kalugina, 1985, by original designation.

**stygialis** Kalugina in Kalugina & Kovalev, 1985: 109. PA: Russia (Siberia) (Middle Jurassic) [C].

**Genus ULAIA Kalugina**

**ULAIA** Kalugina in Kalugina & Kovalev, 1985: 93. Type species: *Ulaia montana* Kalugina, 1985, by original designation.

**magna** Kalugina in Kalugina & Kovalev, 1985: 94. PA: Russia (Siberia) (Middle Jurassic) [C].

**montana** Kalugina in Kalugina & Kovalev, 1985: 93. PA: Russia (Siberia) (Middle Jurassic) [C].

**reducta** Kalugina in Kalugina & Kovalev, 1985: 94. PA: Russia (Siberia) (Middle Jurassic) [C].

**Genus ULAIMAILIA Kalugina**

**ULAIMAILIA** Kalugina in Kalugina & Kovalev, 1985: 100. Type species: *Ulamailia vetula* Kalugina, 1985, by original designation.

**vetula** Kalugina in Kalugina & Kovalev, 1985: 100. PA: Russia (Siberia) (Middle Jurassic) [C].

**Genus ULAIMAILONIA Kalugina**

**ULAIMAILONIA** Kalugina in Kalugina & Kovalev, 1985: 96. Type species: *Ulaimailonia mixta* Kalugina, 1985, by original designation.

**mixta** Kalugina in Kalugina & Kovalev, 1985: 97. PA: Russia (Siberia) (Middle Jurassic) [C].

**Genus ULAIMAILONIELLA Kalugina**

**ULAIMAILONIELLA** Kalugina *in* Kalugina & Kovalev, 1985: 99. Type species: *Ulaimailoniella fusiformis* Kalugina, 1985, by original designation.  
**fusiformis** Kalugina *in* Kalugina & Kovalev, 1985: 99. PA: Russia (Siberia) (Middle Jurassic) [C].

**Genus VIDUATA Lin**

**VIDUATA** Lin, 1980: 226. Type species: *Viduata otiosa* Lin, 1980, by original designation.  
**otiosa** Lin, 1980: 26. PA: China (Upper Jurassic) [C].

**Unplaced Species in CHIRONOMIDAE**

**antiquus** Heyden, 1859: 13 (*Chironomus*). PA: Germany (Oligocene) [C].  
**decrepitus** Heyden, 1870: 248 (*Chironomus*). PA: Germany (Oligocene) [C].  
**gorchonensis** Kalugina *in* Kalugina & Kovalev, 1985: 112 ("Tanypodites"). PA: Russia (Siberia) (Middle Jurassic) [C].

**Questionably Placed in CHIRONOMIDAE****Genus ASUBA Giebel**

**ASUBA** Giebel, 1856: 253. Type species: *Asuba brodiei* Giebel, 1856, by monotypy.  
**brodiei** Giebel, 1856: 226 (new replacement name for *dubius* Westwood). PA: UK (England) (Lower Cretaceous) [C].  
*dubius* Westwood *in* Brodie, 1845: 121, pl. 3, fig. 10 (*Tanypus*). PA: UK (England) (Lower Cretaceous) [C]. [Preoccupied by Meigen, 1804.]

**Genus BIBIONITES Handlirsch**

**BIBIONITES** Handlirsch, 1906a: 631. Type species: *Macropeza prisca* Giebel, 1856, by monotypy.  
**BIBIONITIS**. Incorrect original spelling of *Bibionites* (Handlirsch, 1906a: 631).  
**prisca** Giebel, 1856: 252 (*Macropeza*) PA: UK (England) (Lower Cretaceous) [C].

**Genus CHIRONOMITES Frič**

**CHIRONOMITES** Frič, 1901: 170. Type species: *Chironomites adhaerens* Frič, by **present designation**.

**adhaerens** Frič, 1901: 170. PA: Czech Republic (Upper Cretaceous) [C].  
**unionis** Frič, 1901: 170. PA: Czech Republic (Upper Cretaceous) [C].

**Genus DARA Giebel**

**DARA** Giebel, 1856: 254. Type species: *Culex fossilis* Westwood, 1845, by monotypy.

**fossilis** Westwood in Brodie, 1845: 121, pl. 3, fig. 15 (*Culex*). PA: UK (England) (Lower Cretaceous) [C].

**Genus EOPODONOMUS Rohdendorf**

**EOPODONOMUS** Rohdendorf, 1964: 212 (1974: 236). Type species: *Eopodonomus nymphalis* Rohdendorf, 1964, by original designation.

**nymphalis** Rohdendorf, 1964: 212 (1974: 237). PA: Kazakhstan (Upper Jurassic) [C].

**Genus PACHYURONYMPHA Rohdendorf**

**PACHYURONYMPHA** Rohdendorf, 1964: 214 (1974: 238). Type species: *Pachyuronympha karatauensis* Rohdendorf, 1964, by original designation.

**karatauensis** Rohdendorf, 1964: 214 (1974: 238). PA: Kazakhstan (Upper Jurassic) [C].

**Genus SENDELIA Meunier**

**SENDELIA** Duisberg, 1868: 23. *Nomen nudum*.

**SENDELIA** Meunier, 1899b: 162. Type species: *Sendelia mirabilis* Evenhuis, 1993, by **present designation**.

[*Sendelia* Meunier originally proposed without included species. The present type species designation is from the first included species within the genus in accordance with the *Code*.]

**mirabilis** Evenhuis, 1994: in this work (**new species**). PA: Baltic Region  
(Eocene/Oligocene) [A].

[Species-group name valid by bibliographic reference to characters in  
Meunier (1899b: 162) for the genus *Sendelia*.]

*mirabilis* Duisberg, 1868: 23. *Nomen nudum*.