

Catalog of the Ephemeroptera: Family-Group Taxa

by

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ABSTRACT

The nominal family group taxa of the Ephemeroptera are listed along with their authors, dates of publication and bibliographic references.

Attribution of family-groups to their authors in the Ephemeroptera has traditionally been a highly individualistic process. The same taxa are often credited to several different authors in different papers. There has been no comprehensive list of the nominal family-group taxa and their authors in recent years. Most of the citations of authors and dates of publication of the various family-group taxa which have been published contain only a small portion of these taxa and many contain incorrect author citations. Edmunds (1962) provides an enlightening discussion of higher categories in Ephemeroptera including some information on authors and the history of family-group names, although a few attributions to authors are incorrect.

In this paper I list the family-group taxa of Ephemeroptera, both recent and fossil, with their authors and dates of authorship. This is followed by the page number of the original establishment and an indication of synonymy when they are junior synonyms. The complete bibliographic reference for each taxon is included in the literature cited. All known available names at the family-group level are included. I have tried to follow closely the rules and recommendations of the International Code of Zoological Nomenclature (ICZN). The names are listed with the correct ending (-ini for tribes, -inae for subfamilies, and -idea for families) according to current taxonomic placement. Names above family are not included since they are excluded from the provisions of the ICZN. The form of the name used at the original establishment is given, if it is different than the present form. This difference may be the result of a change of hierarchical position requiring a change in termination or the result of the emendation of an incorrectly formed name as required by the ICZN. A dagger (†) before a name indicates a taxon containing only fossil forms.

The usual purposes of citing the author and date of publication of taxa include helping insure stability and uniformity of nomenclature and facilitating the search for the literature where these names are proposed. In the case of family-group names in Ephemeroptera there is often a poor correlation between the limits of the group as perceived by the author and the presently accepted limits. Therefore, routine citation of authors' names with family-group taxa in the Ephemeroptera is probably of limited value. In those cases where it is deemed necessary or useful, this list should help eliminate much confusion.

Family-Group Taxa of Ephemeroptera

- Acanthametropodinae Edmunds in Edmunds, Allen, & Peters, 1963: 10.
 † Aenigmephemeridae Tshernova, 1968: 23.
 Ameletopsinae Edmunds, 1957: 246.
 Ametropodidae Bengtsson, 1913: 305 (as Ametropidae).
 Analetridinae Demoulin, 1974: 3. Junior synonym of Acanthametropodidae Edmunds.
 Anepeorinae Edmunds, 1962: 10.
 † Aphelophlebotidae Pierce, 1945: 3.
 Arthropleinae Balthasar, 1937: 204 (as Arthropleidae).
 Asthenopodinae Edmunds & Traver, 1954: 239.
 Atalophlebiinae Peters, 1980: 38.
 Baetidae Leach, 1815: 139 (as Baetida).
 Baetiscidae Banks, 1900: 246 (as Baetiscini).
 Behningiidae Motaş & Băcesco, 1937: 29.
 Binoculidae Demoulin, 1954: 103. Junior synonym of Prosopistomatidae Lameere.
 Brachycercidae Lestage, 1924: 62. Junior synonym of Caenidae Newman.
 Caenidae Newman, 1853: 187 (as Coenidae).
 Campsurinae Traver in Needham, Traver, & Hsu, 1935: 284.
 Chromarcyinae Demoulin, 1953 (1940): 8.
 Cloeonidae Newman 1853: 187. Junior synonym of Baetidae Leach.
 Coloburiscinae Edmunds in Edmunds, Allen, & Peters, 1963: 11.
 Diceromyzinae Edmunds & Traver, 1954: 238.
 Ecdyonuridae Ulmer, 1920 (1905): 136. Junior synonym of Heptagniidae Needham.
 Ecdyuridae Jacobson & Bianki, 1905: 877. Junior synonym of Heptageniidae Needham.
 † Epeoromimidae Tshernova, 1969: 154.
 Ephemerellidae Klapalek, 1909: 13.
 Ephemeridae Leach, 1815: 137 (as Ephemerida).
 † Ephemeropsidae Cockerell, 1924: 136 (as Ephemeropsinae).
 Ephemerythinae Gillies, 1960: 35.
 Ephoridae Traver in Needham, Traver, & Hsu, 1935: 241 (as Ephoroninae). Junior synonym of Polymitarcyidae Banks.
 † Eudoteridae Demoulin, 1954: 553. Junior synonym of Misthodotidae Tillyard.
 Euthyplociidae Lestage, 1921: 213 (as Euthyplociinae).
 Exeuthyplociinae Gillies, 1980: 218.
 Heptageniidae Needham in Needham & Betten, 1901: 419 (as Heptageninae).
 † Hexagenitidae Lameere, 1917: 74 (as Hexagenitinae).
 Hyrtanellini Allen, 1980: 88.
 Ichthyopodiidae Demoulin, 1957: 336. Junior synonym of Ephemeridae Leach.
 Isonychiinae Burks, 1953: 108.
 † Jarmilidae Demoulin, 1970: 7.
 † Kukalovidae Demoulin, 1970: 6. Junior synonym of Protereismatidae Sellards.
 Leptohiphinae Edmunds & Traver, 1954: 238.
 Leptophlebiidae Banks, 1900: 246 (as Leptophlebini).
 Machadorythinae Edmunds, Allen, & Peters, 1963: 17.
 Melanemerellinae Demoulin, 1955: 216.
 † Mesephemeridae Lameere, 1917: 47.
 † Mesonetinae Tshernova, 1969: 158 (as Mesonetidae).
 † Mesoplectopterinae Demoulin, 1955: 345.
 Metretopodidae Traver, 1935: 433 (as Metretopinae).
 † Misthodotidae Tillyard, 1932: 260.
 Neopphemeridae Traver, 1935: 288 (as Neopphemerinae).
 † Oboriphlebiidae Hubbard & Kukalová-Peck, 1980: 29.
 Oligoneuriidae Ulmer, 1914: 97.
 Oniscigastriinae Lameere, 1917: 62 (as Oniscigastriinae).
 † Paedephemeridae Lameere, 1917: 49. Junior synonym of Hexagenitidae Lameere.
 Palingeniidae Albarda in Selys-Longchamps, 1888: 147 (as Palingénines).
 † Palingeniopsidae Martynov, 1938: 35.
 Pentageniinae McCafferty, 1972: 51 (as Pentageniidae).

- Polymitarciidae Banks, 1900: 246 (as Polymitarcini).
- Potamanthidae Albarda in Selys-Longchamps, 1888: 148 (as Potamanthines).
- Prosopistomatidae Lameere, 1917: 72 (as Prosopistomidae).
- † Protereismatidae Sellards, 1907: 345 (as Protereismephemeridae).
- Pseudironinae Edmunds & Traver, 1954: 237.
- Pseudoligoneuriinae Ulmer, 1940: 653. Junior synonym of Chromarcyinae Demoulin.
- Rallidentinae Penniket, 1966: 169.
- Rhithrogenidae Lestage, 1917: 266 (as Rhithrogeninae). Junior synonym of Heptageniidae Needham.
- Siphlaenigmatidae Penniket, 1962: 394.
- Siphonuridae Ulmer, 1920 (1888): 131.
- Siphloplectidae Lestage, 1938: 180 (as Siphloptectonidae). Junior synonym of Metretopodidae Traver.
- Siphuridae Albarda in Selys-Longchamps, 1888: 150 (as Siphurines). Junior synonym of Siphonuridae Ulmer.
- Spinadinae Edmunds & Jensen, 1974: 495.
- † Stenodiceranidae Demoulin, 1954: 553. Junior synonym of Hexagenitidae Lameere.
- Teloganodinae Allen, 1965: 263.
- Tricorythidae Lestage, 1942: 15.
- † Triplosobidae Handlirsch, 1908: 312.

Some nomenclatural discussion is perhaps appropriate here. Article 40 and Recommendation 40A of the ICZN state that if, before 1961, a family-group name was changed because its nominal type-genus was rejected as a junior synonym, then that changed name is to be maintained if it has won general acceptance. That name then takes the date of the rejected name. This is the case with 3 of the names in Ephemeroptera: Siphonuridae (cf. Peters & Hubbard, 1977), Chromarcyinae, and Ecdyonuridae. They are given as recommended by the ICZN with their own authors and dates, followed by the date of the replaced names in parentheses.

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