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 Ephemeroperla 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 Ephemeroperla 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 Ephemeroperla

Ametoptetidae Breugnol, 1913: 305 (as Aetropidae).
† Aplaphlebidae Pierce, 1945: 3.
Arthrophilus Baehr, 1937: 204 (as Arthrophilidae).
Arthrophilidae Edmunds & Traver, 1954: 239.
Arthropilinae Peters, 1910: 38.
Arthroptera Leach, 1815: 139 (as Arthroptera).
Arthroptera Banks, 1860: 246 (as Arthroptera).
Ceridini Newman, 1853: 187 (as Ceridini).
Campuriana Traver in Needham, Traver, & Hsu, 1935: 35.
Diceromycromidae Edmunds & Traver, 1954: 238.
Junior synonym of Heptageniidae Needham.
‡ Ectromyzeridae Strong, 1929: 154.
Ephemeridae Klapar, 1903: 13.
Ephemeridae Leach, 1815: 137 (as Ephemeridae).
‡ Ephemeridae Carcharodes, 1924: 136 (as Ephemeroperla).
Ephemeroperla, 1960: 35.
Eucryptoceridae Leach, 1814: 213 (as Euphlebiidae).
Heptageniidae Needham in Needham & Betten, 1961: 419 (as Heptageniidae).
‡ Hexagenidae Lamere, 1917: 74 (as Hexageniidae).
Isoperlaichiana Burke, 1953: 108.
Lepothripidae Edmunds & Traver, 1954: 238.
Lepothripidae Banks, 1960: 246 (as Lepothripidae).
‡ Metasepimentidae Lamere, 1917: 47.
‡ Menotenia, 1899: 158 (as Menotenia).
‡ Mesoleptoceridae Demoulin, 1955: 345.
‡ Metaleptoceridae Traver, 1935: 433 (as Metaneptera).
‡ Methridotidae Tillyard, 1932: 260.
Neophlebiidae Traver, 1935: 288 (as Neophlebiidae).
‡ Oecoperlaeidae Hubbard & Kokalisov-Prek, 1980: 29.
Oligoneuriidae Ulmer, 1914: 97.
Oncogasterina Lamere, 1917: 62 (as Oenogasterina).
‡ Paederoperlae Matuyama, 1938: 35.
Periogasterina McCallery, 1972: 51 (as Periogasterinae).
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 lusus of the rejected name. This is the case with 3 of the names in Ephemeroptera: Siphlonuridae (cf. Peters & Hubbard, 1977), Chromyrcnae, 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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LITERATURE CITED


