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# EATONIA



Supplement No. 2 Florida A&M University, Tallahassee

## GENERA AND SUBGENERA OF RECENT EPHEMEROPTERA

by

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This is a compilation of all nominal genera and subgenera proposed for Recent mayflies, with an indication of their current taxonomic and nomenclatural status and present geographic distribution. The compilation is complete through all papers reviewed in Eatonia No. 24.

Each name is listed, followed by the author and the year in which it was proposed. Synonyms are followed by an equals sign (=) and the currently accepted valid synonym. Subgenera are followed by an indication of the genus in which they are currently placed. Other comments may be included within brackets. Especially controversial or questionable synonymies are indicated by a question mark (?). I have attempted to present the taxonomy as a consensus of that used by present-day mayfly workers. In many cases, however, there is disagreement as to the status of some taxa. In these cases, I have tried to follow recent taxonomic use. In the case of most of the subgenera of Ephemere-la, opinion is fairly evenly divided between this usage and the treatment of them as full genera. In cases of nomenclatural controversy, I have attempted to adhere strictly to the International Code of Zoological Nomenclature.

Following each name is an indication of the present geographical distribution of the taxon, using the following abbreviation code:

Af - Africa, below the Mediterranean and Suez Canal-Red Sea, including the Canary Islands.

As - Asia, east of the Ural Mountains including Asia Minor south of Turkey, the East Indies, and New Guinea.

Aus - Australia and Tasmania.

E - Europe, west of the Ural Mountains and north of Turkey, including Turkey, the Mediterranean Islands, and the Azores.

NA - The North American continent, north of about Mexico City, including the Hawaiian Islands.

NZ - New Zealand.

SA - The Americas south of about Mexico City, including the Caribbean Islands, the West Indies and Bermuda.

Mad - Madagascar, the Comoro Islands, and the Seychelles.

In a work of this type, there inevitably will be errors and omissions. I have tried to hold these to as few as possible, and would greatly appreciate any such mistakes being called to my attention.

Acanthametropus Tshernova, 1948.  
As, NA.

Acentrella Bengtsson, 1912 = Baetis.

Acerella Allen, 1971 = subgenus of Ephemerella.

Adenophlebia Eaton, 1881. Af.

Adenophlebiodes Ulmer, 1924. Af.

Aethephemera McCafferty & Edmunds, 1973 = subgenus of Ephemera.

Afghanurus Demoulin, 1964. As.

Afrobaetodes Demoulin, 1970. Af.

Afromera Demoulin, 1955. Af.

Afronurus Lestage, 1924. Af, As, E.

Afroplocia Lestage, 1939. Af.

Alloydia Needham, 1932 = Lachlania.

Ameletoides Tillyard, 1933. Aus.

Ameletopsis Phillips, 1930. NZ.

Ameletus Eaton, 1885. As, E, NA.

Ametropus Albarda, 1878. As?, E, NA.

Anagenesia Eaton, 1883. As.

Analetris Edmunds, 1972. NA.

Andromina Navás, 1912 = Siphonurus.

Anepeorus McDunnough, 1925. As?, NA.

Apobaetis Day, 1955. NA.

Aprionyx Barnard, 1940. Af.

Arthroplea Bengtsson, 1909. E, NA.

Asiatella Tshernova, 1972 = Cincticostella.

Askola Peters, 1969. SA.

Asthenopodes Ulmer, 1920. SA.

Asthenopus Eaton, 1871. SA.

Atalomicria Harker, 1954. Aus.

Atalonella Needham & Murphy, 1924.  
Aus, SA.

Atalophlebia Eaton, 1881. As?, Aus, SA.

Atalophlebioides Phillips, 1930. Aus,  
NZ, SA?.

Atopopus Eaton, 1881. As.

Attenuella Edmunds, 1971 [n.n. for Attenuatella Edmunds] = subgenus of Ephemerella.

Attenuatella Edmunds, 1959  
[preoccupied] = Attenella [subgenus of Ephemerella].

Australphlebia Peters, 1971 = subgenus of Borinquena.

Austremarella Riek, 1963. Aus.

Austrocaenis Barnard, 1932. Af, Mad.

Austrocloeon Barnard, 1940 = Cloeon.

Baetiella Ueno, 1931 = subgenus of Pseudocloeon Klapálek?

Baetis Leach, 1815. Af, As, Aus, E,  
NA, SA, Mad.

Baetisca Walsh, 1862. NA.

Baetodes Needham & Murphy, 1924.  
NA, SA.

- Baetopus Keffermüller, 1960. E.
- Behningia Lestage, 1929. As, E.
- Binoculus Fourcroy, 1785 [not available: Hubbard, Proc. IInd Int. Conf. Ephemeroptera] = Prosopistoma.
- Blasturus Eaton, 1881 = Leptophlebia.
- Bleptus Eaton, 1885. As.
- Borinquena Traver, 1938. SA.
- Brachycercus Curtis, 1834. As, E, NA, SA.
- Brachyphlebia Westwood, 1840 = Baetis.
- Brasilocaenis Puthz, 1975. SA.
- Bruchella Navás, 1920 = Leptohiphes.
- Bungona Harker, 1957. Aus.
- Caenis Stephens, 1835. Af, As, E, NA, SA.
- Caenodes Ulmer, 1924. Af, As, E.
- Caenomedeia Thew, 1960. Af, As.
- Caenomera Demoulin, 1961 = subgenus of Neophemera.
- Caenopsella Gillies, 1977. Af.
- Caenopsis Needham, 1920 [preoccupied] = Tricorythafer.
- Calliarcys Eaton, 1881. E.
- Callibaetis Eaton, 1881. NA, SA.
- Camelobaetidius Demoulin, 1966. SA.
- Campsurus Eaton, 1868. NA, SA.
- Campylocia Needham & Murphy, 1924. SA.
- Careospina Peters, 1971. SA.
- Castanophlebia Barnard, 1932. Af.
- Caudatella Edmunds, 1959 = subgenus of Ephemereilla.
- Centroptiloides Lestage, 1918. Af, E, Mad.
- Centroptilum Eaton, 1869. Af, As, Aus, E, NA, Mad.
- Chankagenesia Buldovski, 1935. As.
- Chaquihua Demoulin, 1955. SA.
- Chelysentomon Joly & Joly, 1872 = Prosopistoma.
- Chirogenesia Demoulin, 1952. Mad.
- Chilopterter Lestage, 1931. SA.
- Chimura Navás, 1915 = Ameletus.
- Chirotonetes Eaton, 1881 = Isonychia.
- Chitonophora Bengtsson, 1909 = Ephemereilla.
- Chiusanophlebia Ueno, 1969. As.
- Choroterpes Eaton, 1871. Af, As, E, NA, SA.
- Choroterpides Ulmer, 1939. As
- Chromarcys Navás, 1932. As.
- Cincticostella Allen, 1971. As.
- Cinygma Eaton, 1885. As, E, NA.
- Cinygmina Kimmins, 1937. As.
- Cinygmoides Matsumura, 1931 (incertae sedis). As.
- Cinygmula McDunnough, 1933. As, NA.
- Cloe Burmeister, 1839 [emendation of Cloeon] = Cloeon.
- Cloeodes Traver, 1938. SA.
- Cloeon Leach, 1815. Af, As, Aus, E, NA, SA, Mad.
- Cloeopsis Eaton, 1866 = Cloeon.
- Cloeoptilum Kazlauskas, 1972 [not available, art. 13b]
- Coloburiscoides Lestage, 1935. Aus.
- Coloburiscus Eaton, 1888 [n.n. for Coloburus Eaton]. NZ.
- Coloburus Eaton, 1868 [preoccupied] = Coloburiscus.
- Compsoneria Eaton, 1881. As.
- Compsoneriella Ulmer, 1939. Af, As, Mad.

- Cotopaxi Mayo, 1968. SA.
- Crinitella Allen & Edmunds, 1963 = subgenus of Ephemerella.
- Cryptopenella Gillies, 1951. As.
- Dactylobaetis Traver & Edmunds, 1968. NA, SA.
- Dannella Edmunds, 1959 = subgenus of Ephemerella.
- Deleatidium Eaton, 1899. Aus, SA.
- Dicercomyzon Demoulin, 1954. Af.
- Dicrephemera McCafferty & Edmunds, 1973 = subgenus of Ephemera.
- Dictyosiphon Lestage, 1931 = Murphyella.
- Dipteromimodes Matsumura, 1931 = Dipteromimus.
- Dipteromimus McLachlan, 1875. As.
- Dipterophlebiodes Demoulin, 1954. As.
- Dolania Edmunds & Traver, 1959. NA.
- Drunella Needham, 1905 = subgenus of Ephemerella.
- Eatonella Needham, 1927 = Drunella.
- Eatonia Ali, 1970 [preoccupied] = Isonychia.
- Eatonica Navás, 1913. Af, Mad.
- Eatonigenia Ulmer, 1939. As.
- Ecdyonuroides Dang, 1967. As. [reference from Tshernova, 1976, Entomol. Obozr. 55:332]
- Ecdyonurus Eaton, 1868. Af, As, E.
- Ecdyurus Eaton, 1871 [emendation of Ecdyonurus] = Ecdyonurus.
- Edmundsius Day, 1953. NA.
- Elassoneuria Eaton, 1881. Af, Mad.
- Eopolymitarcys Tshernova, 1934 = Ephoron.
- Epeiron Demoulin, 1964. As, E.
- Epeorella Ulmer, 1939. As.
- Epeorus Eaton, 1881. As, E, NA, SA (Central America only).
- Ephemera Linnaeus, 1758. Af, As, E, NA.
- Ephemerella Walsh, 1862. As, E, NA.
- Ephemerellina Lestage, 1924. Af, As.
- Ephemerythus Gillies, 1960. Af.
- Ephoron Williamson, 1802. Af, As, E, NA.
- Esbenophlebia Lestage, 1924 = Adenophlebia.
- Eucharidis Joly & Joly, 1876 = Potamanthus.
- Euphlebia Crass, 1947 = Adenophlebioides.
- Euphyurus Bengtsson, 1909 = Leptophlebia.
- Eurycaenis Bengtsson, 1917 = Brachycercus.
- Eurylophella Tiensuu, 1935 = subgenus of Ephemerella.
- Euthraulius Barnard, 1932 = subgenus of Choroterpes.
- Euthyplocia Eaton, 1871. SA, As.
- Exeuthyplocia Lestage, 1919. Af.
- Farrodes Peters, 1971. SA.
- Fontainica McCafferty, 1968 = Cheirogenesis.
- Fullea Navás, 1930. Af.
- Fulletomimus Demoulin, 1956. Af.
- Gilliesia Peters & Edmunds, 1970. As.
- Habroleptoides Schoenemund, 1930. Af, E.
- Habrophlebia Eaton, 1881. E, NA.
- Habrophlebiodes Ulmer, 1920. As, NA, SA?

- Hagenulodes Ulmer, 1920. Mad.
- Hagenulopsis Ulmer, 1920. SA.
- Hagenulus Eaton, 1882. As, SA.
- Haplobaetis Navás, 1922 =  
Centroptiloides.
- Haplogenia Blair, 1929 = Arthroplea.
- Haplohyphes Allen, 1966. SA.
- Hapsiphlebia Peters & Edmunds, 1972.  
SA.
- Heptagenia Walsh, 1863. As, E, NA,  
SA.
- Hermanella Needham & Murphy, 1924.  
SA.
- Hermanellopsis Demoulin, 1955. SA.
- Heterocloeon McDunnough, 1925. NA.
- Hexagenia Walsh, 1863. As?, NA, SA.
- Holobaetis Sukackienè, 1962 = subgenus  
of Baetis [not available, art. 13b]
- Homoeoneuria Eaton, 1881. NA, SA.
- Homothraulius Demoulin, 1955. SA.
- Hyalophlebia Demoulin, 1955 =  
subgenus of Adenophlebiodes.
- Hyrтанella Allen & Edmunds, 1976. As.
- Ichthybotus Eaton, 1899. NZ.
- Indialis Peters & Edmunds, 1970. As.
- Iron Eaton, 1883 = subgenus of  
Epeorus.
- Ironodes Traver, 1935. NA.
- Ironopsis Traver, 1935 = subgenus of  
Epeorus.
- Isca Gillies, 1951. As.
- Isonychia Eaton, 1871. As, E, NA,  
SA (Central America only).
- Jappa Harker, 1954. Aus.
- Jolia Eaton, 1881 = Isonychia.
- Kageronia Matsumura, 1931 =  
Heptagenia.
- Kimminsula Peters & Edmunds, 1970.  
As.
- Kirrara Harker, 1954. Aus.
- Lachlania Hagen, 1868. NA, SA.
- Leentvaaria Demoulin, 1966. SA.
- Leptohyphes Eaton, 1882. NA, SA.
- Leptohyphodes Ulmer, 1920. SA.
- Leptophlebia Westwood, 1840. As,  
E, NA.
- Lestagella Demoulin, 1970. Af.
- Leucorhoenanthus Lestage, 1930 =  
subgenus of Neophemera.
- Lithogloea Barnard, 1932 = subgenus  
of EphemereUina.
- Litobrancha McCafferty, 1971. NA.
- Longinella Gros & Lestage, 1927 =  
Campylocia.
- Machadorythus Demoulin, 1959. Af.
- Madeconeuria Demoulin, 1973 = subgenus  
of Elassoneuria.
- Maheathraulius Peters, Gillies &  
Edmunds, 1964. Mad.
- ManohypheUa Allen, 1973. Mad.
- Masharikella Peters, Gillies &  
Edmunds, 1964 = Thraulius.
- Massartella Lestage, 1930. SA.
- Massartellopsis Demoulin, 1955. SA.
- Megaglena Peters & Edmunds, 1970. As.
- Melanameletus Tiensuu, 1935 =  
Eurylophella [subgenus of  
EphemereUa].
- Melanemerella Ulmer, 1920. SA.
- Meridialaris Peters & Edmunds, 1972.  
SA.
- Mesoplocia Demoulin, 1952. SA.
- Metamonius Eaton, 1885. SA.
- Metreletus Demoulin, 1951. E.
- Metretopus Eaton, 1901. As, E, NA.

Metreturus Burks, 1953 =  
Acanthametropus.

Minyphlebia Peters & Edmunds, 1970  
= subgenus of Isca.

Mirawara Harker, 1954. Aus.

Miroculis Edmunds, 1963. SA.

Montobaetis Kazlauskas, 1972 = sub-  
genus of Baetis [not available, art.  
13b]

Mortogenesisia Lestage, 1923. As.

Murphyella Lestage, 1929. SA.

Nathanella Demoulin, 1955. As.

Needhamocaenis Lestage, 1945 =  
Tricorythafer.

Neobaetis Navás, 1924 = Callibaetis.

Neochoroterpes Allen, 1974 = subgenus  
of Choroterpes.

Neocloeon Traver, 1932 = Cloeon.

Neophemera McDunnough, 1925. As, E,  
NA.

Neophemeropsis Ulmer, 1939. As.

Neohagenulus Traver, 1938. SA.

Neophlebia Navás, 1910 = Lachlania.

Neopotamanthodes Hsu, 1938. As.

Neozephlebia Penniket, 1961 = subgenus  
of Zephlebia.

Nesameletus Tillyard, 1933. NZ.

Nesophlebia Peters & Edmunds, 1964.  
Mad.

Nesoptiloides Demoulin, 1973. Mad.

Neurocaenis Navás, 1936. Af, As,  
Mad.

Nigrobaetis Kazlauskas, 1972 [not  
available, art. 13b]

Nirvius Navás, 1922 = Ephemera.

Notacanthurus Tshernova, 1974. As.

Notonurus Crass, 1947 = Componeuriella.

Notophlebia Peters & Edmunds, 1970. As.

Nousia Navás, 1918. SA.

Noya Navás, 1910 [n.n. for Neophlebia  
Navás] = Lachlania.

Noyopsis Navás, 1924 = Lachlania.

Oligoneuria Pictet, 1844. SA.

Oligoneuriella Ulmer, 1924. Af, As, E.

Oligoneurioides Demoulin, 1955. SA.

Oligoneuriopsis Crass, 1947. Af.

Oligoneurisca Lestage, 1938. E.

Oligophlebia Demoulin, 1965 =  
Paraleptophlebia.

Oniscigaster McLachlan, 1873. NZ.

Ordella Campion, 1923 = Caenis.

Oreianthus Traver, 1931 = subgenus of  
Neophemera.

Ororotsia Traver, 1939. As.

Oxycypha Burmeister, 1839 = Caenis.

Paegniodes Eaton, 1881. As.

Paleoameletus Lestage, 1940 = Ameletus.

Palingenia Burmeister, 1839. Af?, As,  
E, SA?

Palmenia Lestage, 1924 = Parameletus.

Paracloeodes Day, 1955. NA, SA  
(Puerto Rico only)

Paracinygmula Bajkova, 1975. As.

Paraleptophlebia Lestage, 1917. As,  
E, NA.

Parameletus Bengtsson, 1908. As, E,  
NA.

Penaphlebia Peters & Edmunds, 1972.  
SA.

Pentagenia Walsh, 1863. NA.

Petersophlebia Demoulin, 1973. Mad.

Plethogenesisia Ulmer, 1920. As.

Polymitarcys Eaton, 1868 = Ephoron.

Polyplocia Lestage, 1921. As.

- Polythelais Demoulin, 1973. Mad.
- Potamanthellus Lestage, 1930. As.
- Potamanthindus Lestage, 1930. As.
- Potamanthodes Ulmer, 1920. As.
- Potamanthus Pictet, 1843. Af, As, E, NA, SA?
- Potameis Bengtsson, 1909 = Parameletus.
- Povilla Navás, 1912. Af, As.
- Proboscidoplocia Demoulin, 1966. Mad.
- Procloeon Bengtsson, 1915 [n.n. for Pseudocloeon Bengtsson]. Af, As, E.
- Procloeon Matsumura, 1931 [preoccupied] = Procloeon Bengtsson.
- Prosopistoma Latreille, 1833. Af, As, E, Mad.
- Protobehningia Tshernova, 1960. As.
- Pseudeatonica Spieth, 1941 = subgenus of Hexagenia.
- Pseudiron McDunnough, 1931. NA.
- Pseudocentroptilum Bogoescu, 1950. E.
- Pseudocloeon Klapálek, 1905. Af, As, E, NA, SA, Mad.
- Pseudocloeon Bengtsson, 1914 [preoccupied] = Procloeon Bengtsson.
- Pseudocloeon Matsumura, 1931 [preoccupied; incertae sedis]. As.
- Pseudoligoneuria Ulmer, 1939 = Chromarcys.
- Pseudulmeritus Traver, 1959 = subgenus of Ulmeritus.
- Rallidens Penniket, 1966. NZ.
- Rheobaetis Müller-Liebenau, 1974 = Heterocloeon.
- Rhithrogena Eaton, 1881. Af, As, E, NA, SA (Central America only).
- Rhithrogeniella Ulmer, 1939. As.
- Rhodobaetis Kazlauskas, 1972 = subgenus of Baetis [not available, 13b].
- Rhoenanthodes Lestage, 1930 = Potamanthellus.
- Rhoenanthopsis Ulmer, 1932. As.
- Rhoenanthus Eaton, 1881. As.
- Serratella Edmunds, 1959 = subgenus of Ephemerella.
- Sigmoneuria Demoulin, 1964. As.
- Simothraulopsis Demoulin, 1966. SA.
- Simothraulus Ulmer, 1939. As.
- Siphlaenigma Penniket, 1962. NZ.
- Siphlonella Needham & Murphy, 1924. SA.
- Siphlonisca Needham, 1909. As?, NA.
- Siphlonuroides McDunnough, 1923 = Parameletus.
- Siphlonurus Eaton, 1868. As, E, NA.
- Siphloplecton Clemens, 1915. NA.
- Siph lurella Bengtsson, 1909 = Siphlonurus.
- Siph luriscus Ulmer, 1920. As.
- Siph lurus Eaton, 1871 [emendation of Siphlonurus] = Siphlonurus.
- Spaniophlebia Eaton, 1881. SA.
- Sparrea Esben-Petersen, 1909 = Parameletus.
- Spinadis Edmunds & Jensen, 1974. NA.
- Stenacron Jensen, 1974. NA.
- Stenonema Traver, 1933. NA, SA (Central America only).
- Tanycola Peters & Edmunds, 1970 = subgenus of Isca.
- Tasmanocoenis Lestage, 1930. Aus.
- Tasmanophlebia Tillyard, 1921. Aus.
- Tasmanophlebiodes Lestage, 1935 [not available, art. 13b] = Tasmanophlebia.
- Teloganella Ulmer, 1939. As.
- Teloganodes Eaton, 1882. As.



Teloganopsis Ulmer, 1939 = subgenus of Ephemerella.

Terpides Demoulin, 1966. SA.

Thalerosphyrus Eaton, 1881. As.

Thraulodes Ulmer, 1920. As?, NA, SA.

Thraulophlebia Demoulin, 1955. Aus.

Thraululus Ulmer, 1939 = Euthraululus [subgenus of Choroterpes].

Thraululus Eaton, 1881. Af, Aus, As, E.

Timpanoga Needham, 1927 = subgenus of Ephemerella.

Torleya Lestage, 1917 = subgenus of Ephemerella.

Tortopus Needham & Murphy, 1924. NA, SA.

Traverella Edmunds, 1948. NA, SA.

Traverina Peters, 1971. SA.

Tricomerella Demoulin, 1964 = subgenus of Ephemerythus.

Tricorythafer Lestage, 1942 [n.n. for Caenopsis Needham]. Af.

Tricorythodes Ulmer, 1920. NA, SA.

Tricorythopsis Traver, 1958. SA.

Tricorythurus Lestage, 1942 = subgenus of Tricorythus.

Tricorythus Eaton, 1868. Af.

Tritogenesia Lestage, 1923 = Pliethogenesia.

Ulmeritoides Traver, 1959 = subgenus Ulmeritus.

Ulmeritus Traver, 1956. SA.

Ulmerophlebia Demoulin, 1955. Aus, Mad.

Vernobaetis Kazlauskas, 1972 = subgenus of Baetis [not available, art. 13b]

Vietnamella Tshernova, 1972. As.

Zephlebia Penniket, 1961.

Although only the author and year is given for each taxon, the full bibliographic reference can usually be obtained from either of two major sources. The first, for older papers, is: A. E. Eaton, 1871, A monograph on the Ephemeridae, Trans. Entomol. Soc. Lond. 1871:1-164, 6 pl. (see also A. E. Eaton, 1883-1888, A revisional monograph of recent Ephemeridae or mayflies, Trans. Linn. Soc. Lond., Ser. 2 Zool., 3:1-352, 65 pl.). The second source, for more recent papers, is the Zoological Record, published by the Royal Zoological Society of London.

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