

# A Check-list and Synonyms of the Norwegian Species of Ephemeroptera

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A check-list of the species of Ephemeroptera found in Norway and some synonyms concerning Norwegian species are given. *Caenis rivulorum* Eaton is reported new to Norway.

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The treatise by Brekke (1938) of the Norwegian Ephemeroptera includes 38 species. Since then a further 8 species have been published as found in Norway (Brekke 1943, 1965, Grimeland 1966, Müller-Liebenau 1949, Brittain 1972). This makes a total of 46 species.

This check-list, which is based on the present knowledge concerning the taxonomy and synonymy within the order, brings the number of species down to 43 including *Caenis rivulorum* Eaton, which is here reported new to Norway. This species was collected by Curator Albert Lillehammer, Zoological Museum, Oslo during the investigations carried out by this institution in the summer of 1966 in Pasvik, South-Varanger (Finnmark county). The material of Ephemeroptera is being worked on by me, and further details will appear in a special publication.

Kimmins (1960) places *Baëtis gemellus* Eaton in the synonymy of *Baëtis rhodani* (Pictet), but according to Müller-Liebenau (1969) *B. gemellus* is a valid species having a rather southern distribution in Europe. On the basis of the known distribution of *B. gemellus* and the fact that the species can hardly be identified by means of previous descriptions or keys, I prefer to omit the species from the Norwegian list. The two Norwegian finds published by Brekke (1938) of this species are most likely *B. rhodani*. *B. gemellus* is thoroughly described and figured by Müller-Liebenau (1969). In the present check-list the families and genera are arranged according to

Edmunds (1962), and the species are arranged alphabetically within the genera. A question mark in front of a synonym means that the synonymy is probable, but needs confirmation.

FAM. SIPHLONURIDAE KLAPALEK, 1909  
Gen. *AMELETUS* Eaton, 1885

1. *inopinatus* Eaton, 1887

Syn.: *Ameletus alpinus* Bengtsson, 1913

Gen. *PARAMELETUS* Bengtsson, 1908

2. *chelifer* Bengtsson, 1908

Syn.: *Potameis elegans* Bengtsson, 1909

*Sparrea norvegica* Esben-Petersen,  
1909 pro parte

*Palmenia fennica* Aro, 1910

3. *minor* (Bengtsson), 1909 (sub nom. *Potameis minor*)

Syn.: *Sparrea norvegica* Esben-Petersen,  
1909 pro parte

Gen. *SIPHLONURUS* Eaton, 1868

4. *aestivalis* (Eaton), 1903 (sub nom. *Siphlorus aestivalis*)

Syn.: *Siphlorus spinosus* Bengtsson, 1909

5. *lacustris* Eaton, 1870

Syn.: *Siphonurus zetterstedti* (Bengtsson), 1909 (sub nom. *Siphlorus zetterstedti*)

6. *linnaeanus* (Eaton), 1871 (sub nom. *Siphlorus linnaeanus*)

- Syn.: *Siph lurella thomsoni* Bengtsson, 1909  
 ? *Siph lurella oblita* Bengtsson, 1909

FAM. BAËTIDAE KLAPALEK, 1909

Gen. *BAËTIS* Leach, 1815

7. *fuscatus* (Linnaeus), 1761 (sub nom. *Ephemera fuscata*)  
 Syn.: *Baëtis bioculatus* auct. nec *Ephemera bioculata* Linnaeus, 1758
8. *lapponicus* (Bengtsson), 1912 (sub nom. *Acentrella lapponica*)
9. *macani* Kimmins, 1957
10. *muticus* (Linnaeus), 1758 (sub nom. *Ephemera mutica*)  
 Syn.: *Baëtis pumilus* (Burmeister), 1839 (sub nom. *Cloe pumila*)
11. *niger* (Linnaeus), 1761 (sub nom. *Ephemera nigra*)  
 Syn.: *Baëtis incurvus* Bengtsson, 1912
12. *rhodani* (Pictet), 1843—45 (sub nom. *Cloe rhodani*)  
 Syn.: *Baëtis wallengreni* Bengtsson, 1912  
*Baëtis pusillus* Bengtsson, 1912
13. *scambus* Eaton, 1870
14. *subalpinus* Bengtsson, 1917  
 Syn.: *Baëtis saliens* Tiensuu, 1939
15. *vernus* Curtis, 1834  
 Syn.: *Baëtis tenax* Eaton, 1870

Gen. *CENTROPTILUM* Eaton, 1869

16. *luteolum* (Müller), 1776 (sub nom. *Ephemera luteola*)

Gen. *CLOËON* Leach, 1815

17. *dipterum* (Linnaeus), 1761 (sub nom. *Ephemera diptera*)  
 Syn.: *Cloëon inscriptum* Bengtsson, 1914
18. *simile* Eaton, 1870  
 Syn.: *Cloëon praetextum* Bengtsson, 1914

Gen. *PROCLOËON* Bengtsson, 1915

19. *bifidum* (Bengtsson), 1912 (sub nom. *Cloëon bifidum*)

Syn.: ? *Procloëon pseudorufulum* Kimmins, 1957 (According to Kimmins (1957) *Cloëon rufulum* Eaton, 1885 nec *Cloëon rufulum* (Müller), 1776). Described under the name *Cloëon rufulum* (Müller) by Esben-Petersen (1910)

FAM. HEPTAGENIIDAE TRAVER, 1935

Gen. *HEPTAGENIA* Walsh, 1863

20. *dalecarlica* Bengtsson, 1912
21. *fuscogrisea* (Retzius), 1783 (sub nom. *Ephemera fuscogrisea*)  
 Syn.: *Ecdyurus volitans* (Eaton), 1870 (sub nom. *Heptagenia volitans*) *Ecdyurus convergens* Aro, 1910
22. *joernensis* (Bengtsson), 1909 (sub nom. *Ecdyurus joernensis*)  
 Syn.: *Ecdyurus flavomaculatus* Aro, 1910
23. *sulphurea* (Müller), 1776 (sub nom. *Ephemera sulphurea*)

Gen. *ARTHROPLEA* Bengtsson, 1908

24. *congener* Bengtsson, 1908  
 Syn.: *Remipalpus elegans* Bengtsson, 1908  
*Cinygma mirabilis* Aro, 1910  
*Haplogenia southi* Blair, 1929  
*Arthroplea frankenbergeri* Balthasar 1937

FAM. AMETROPODIDAE (AMETROPIDAE) BENTGSSON, 1913

Gen. *METRETOPUS* Eaton, 1901

25. *alter* Bengtsson, 1930
26. *borealis* (Eaton), 1871 (sub nom. *Heptagenia borealis*)  
 Syn.: *Metretopus norvegicus* Eaton, 1901

FAM. LEPTOPHLEBIIDAE KLAPALEK, 1909

Gen. *LEPTOPHLEBIA* Westwood, 1840

27. *marginata* (Linnaeus), 1767 (sub nom. *Ephemera marginata*)
28. *vespertina* (Linnaeus), 1758 (sub nom. *Ephemera vespertina*)  
 Syn.: *Leptophlebia meyeri* Eaton, 1884  
*Euphyurus albitarsis* Bengtsson, 1909

Gen. *PARALEPTOPHLEBIA* Lestage, 1917

29. *cincta* (Retzius), 1783 (sub nom. *Ephemera cincta*)  
Syn.: ? *Leptophlebia placita* Bengtsson, 1917
30. *strandii* (Eaton), 1901 (sub nom. *Leptophlebia strandii*)
31. *submarginata* (Stephens), 1835 (sub nom. *Ephemera submarginata*)
32. *wernerii* Ulmer, 1919  
Syn.: *Paraleptophlebia tumida* Bengtsson, 1930

40. *macrura* Stephens, 1835
41. *moesta* Bengtsson, 1917  
Described under the name *Caenis halterata* (Fabricius) by Esten-Petersen (1910)
42. *nocturna* Bengtsson, 1917  
Syn.: ? *Caenis tumida* Bengtsson, 1912 (vide Saaristo 1966)  
*Caenis undosa* Tiensuu, 1939
43. *rivulorum* Eaton, 1884  
Syn.: *Caenis dimidiata* var. *rivulorum* Eaton, 1884  
*Caenis nivea* Bengtsson, 1917

## FAM. EPHEMERELLIDAE KLAPALEK, 1909

Gen. *EPHEMERELLA* Walsh, 1862

33. *aurivillii* (Bengtsson), 1908 (sub nom. *Chitonophora aurivillii*)  
Syn.: *Ephemerella aronii* Eaton, 1908 pro parte
34. *ignita* (Poda), 1761 (sub nom. *Ephemera ignita*)  
Syn.: *Ephemerella lactata* Bengtsson, 1909  
*Ephemerella torrentium* Bengtsson, 1917
35. *mucronata* (Bengtsson), 1909 (sub nom. *Chitonophora mucronata*)  
Syn.: *Ephemerella aronii* Eaton, 1908 pro parte

## FAM. EPHEMERIDAE KLAPALEK, 1909

Gen. *EPHEMERA* Linnaeus, 1758

36. *danica* Müller, 1764
37. *vulgata* Linnaeus, 1758

## FAM. CAENIDAE KLAPALEK, 1909

Gen. *BRACHYCERCUS* Curtis, 1834

38. *harrisella* Curtis, 1834

Gen. *CAENIS* Stephens, 1835

39. *horaria* (Linnaeus), 1758 (sub nom. *Ephemera horaria*)  
Syn.: *Caenis dimidiata* Stephens, 1835  
*Caenis dimidiata* var. *fennica* Aro, 1928

## GENERIC SYNONYMS

- Parameletus* Bengtsson, 1908  
Syn.: *Potameis* Bengtsson, 1909  
*Sparrea* Esben-Petersen, 1909  
*Palmenia* Aro, 1910  
*Siphonurus* Eaton, 1868  
Syn.: *Siphurella* Bengtsson, 1909  
*Baëtis* Leach, 1815  
Syn.: *Acentrella* Bengtsson, 1912  
*Procloëon* Bengtsson, 1915  
Syn.: *Pseudocloëon* Bengtsson, 1914 nec  
*Pseudocloëon* Klapalek, 1905  
*Arthroplea* Bengtsson, 1908  
Syn.: *Remipalpus* Bengtsson, 1908  
*Haplogenia* Blair, 1929  
*Leptophlebia* Westwood, 1840  
Syn.: *Euphyurus* Bengtsson, 1909  
*Paraleptophlebia* Lestage, 1917  
Syn.: *Leptophlebia* Bengtsson, 1917 nec *Leptophlebia* Westwood, 1840  
*Ephemerella* sensu stricto  
Syn.: *Chitonophora* Bengtsson, 1908  
*Brachycercus* Curtis, 1834  
Syn.: *Eurycaenis* Bengtsson, 1917

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