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 *Baetis gemellus* Eaton in the synonymy of *Baetis 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. chelifera 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. *Siphilurus aestivalis*)
   Syn.: *Siphilurus spinosus* Bengtsson, 1909

5. lacustris Eaton, 1870
   Syn.: *Siphlonurus zetterstedti* (Bengtsson), 1909 (sub nom. *Siphilurus zetterstedti*)

6. linnaeanus (Eaton), 1871 (sub nom. *Siphilurus linnaeanus*)
Syn.: *Siphurella thomsoni* Bengtsson, 1909

? *Siphurella oblita* Bengtsson, 1909

**FAM. BAETIDAE KŁAPALEK, 1909**

Gen. *BAETIS* Leach, 1815

7. *fuscatus* (Linnaeus), 1761 (sub nom. *Ephemerura fuscata*)
   Syn.: *Baetis bioculatus* auct. nec *Ephemerura bioculata* Linnaeus, 1758

8. *lapponicus* (Bengtsson), 1912 (sub nom. *Acentrella lapponica*)

9. *macani* Kimmins, 1957

10. *muticus* (Linnaeus), 1758 (sub nom. *Ephemerura mutica*)
   Syn.: *Baetis pumilus* (Burmeister), 1839
   (sub nom. *Clotum pumilum*)

11. *niger* (Linnaeus), 1761 (sub nom. *Ephemerura nigra*)
   Syn.: *Baetis incurvus* Bengtsson, 1912

12. *rhodani* (Pictei), 1843–45 (sub nom. *Clotum rhodani*)

**Syn.**: *Baetis wallengreni* Bengtsson, 1912

*Baetis pusillus* Bengtsson, 1912

13. *scambus* Eaton, 1870

14. *subalpinus* Bengtsson, 1917
   Syn.: *Baetis saliens* Tiensuu, 1939

15. *vernus* Curtis, 1834
   Syn.: *Baetis tenax* Eaton, 1870

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

**FAM. HEPTAGENIIDAE TRAVER, 1935**

Gen. *HEPTAGENIA* Walsh, 1863

20. *balecarlica* Bengtsson, 1912

21. *fuscogrisea* (Retzius), 1783 (sub nom. *Ephemerura 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. *Ephemerura sulphurea*)

Gen. *ARTHROPLEA* Bengtsson, 1908

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

**FAM. AMETROPODIDAE (AMETROPIDAE) BENGTTSON, 1913**

Gen. *METRETOPUS* Eaton, 1901

25. *alter* Bengtsson, 1930

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

**FAM. LEPTOPHLEBIIDAE KŁAPALEK, 1909**

Gen. *LEPTOPHLEBIA* Westwood, 1840

27. *marginata* (Linnaeus), 1767 (sub nom. *Ephemerura marginata*)

28. *vespertina* (Linnaeus), 1758 (sub nom. *Ephemerura vespertina*)
   Syn.: *Leptophlebia meyeri* Eaton, 1884
   *Euphyurus abitarsis* Bengtsson, 1909

Gen. *CENTROPTILUM* Eaton, 1869

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

Gen. *CLOEON* Leach, 1815

17. *diapterum* (Linnaeus), 1761 (sub nom. *Ephemerura diptera*)
   Syn.: *Cloeon inscriptum* Bengtsson, 1914

18. *simile* Eaton, 1870
   Syn.: *Cloeon praetextum* Bengtsson, 1914

Gen. *PROCLOEON* Bengtsson, 1915

19. *bifidum* (Bengtsson), 1912 (sub nom. *Cloeon bifidum*)
Gen. PARALEPTOPHLEBIA Lestage, 1917
29. cincta (Retzius), 1783 (sub nom. Ephemer a cincta)
  Syn.: ? Leptophlebia placita Bengtsson, 1917
30. strandii (Eaton), 1901 (sub nom. Leptophlebia strandii)
31. submarginata (Stephens), 1835 (sub nom. Ephemer a submarginata)
32. wernerii Ulmer, 1919
  Syn.: Paraleptophlebia tumida Bengtsson, 1930

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. Ephemer a 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. BRACHYERCUS Curtis, 1834
38. harrisella Curtis, 1834

Gen. CAENIS Stephens, 1835
39. horaria (Linnaeus), 1758 (sub nom. Ephemer a horaria)
  Syn.: Caenis dimidiata Stephens, 1835
  Caenis dimidiata var. fennica Aro, 1928
40. macrura Stephens, 1835
41. moesta Bengtsson, 1917
  Described under the name Caenis halterata (Fabricius) by Esben-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

GENERIC SYNONYMS
Parameletus Bengtsson, 1908
Syn.: Potameis Bengtsson, 1909
Sparrea Esben-Petersen, 1909
Palmenia Aro, 1910
Siphlonurus Eaton, 1868
Syn.: Siphurella Bengtsson, 1909
Baetis Leach, 1815
Syn.: Acentrella Bengtsson, 1912
Procloeon Bengtsson, 1915
Syn.: Pseudocloeon Bengtsson, 1914 nec
Pseudocloeon 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 strictu
Syn.: Chitonophora Bengtsson, 1908
Brachycercus Curtis, 1834
Syn.: Eurycaenis Bengtsson, 1917

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REFERENCES


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