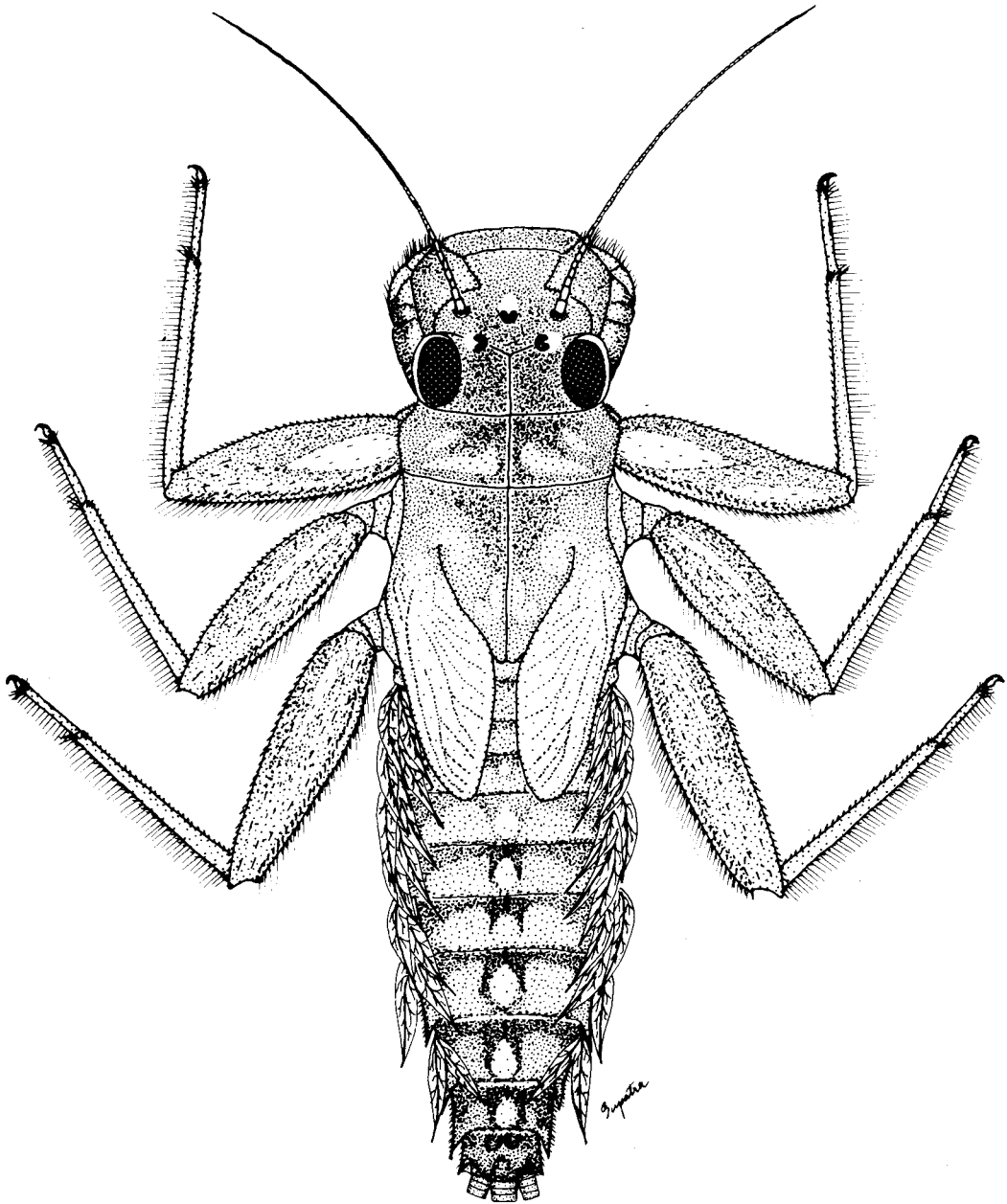


Catalogue of the Australian Mayflies,
Recent and Fossil
(Insecta : Ephemeroptera)



Michael D. Hubbard

&

Ian C. Campbell

1996

**Catalogue of the Australian Mayflies,
Recent and Fossil
(Insecta : Ephemeroptera)**

Michael D. Hubbard

Entomology / Center for Water Quality
Florida A&M University
Tallahassee, Florida 32307 USA

&

Ian C. Campbell

Department of Ecology & Evolutionary Biology
Monash University
Clayton, Victoria, 3168 Australia

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For further information about membership or previous publications of the Society,
contact:

Dr R Marchant
Secretary, ASL
Department of Survey
Museum of Victoria
71 Victoria Crescent
Abbotsford, Victoria 3067
Australia.

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Michael D. Hubbard
Entomology / Center for Water Quality, Florida A&M University
Tallahassee, Florida 32307 USA

&

Ian C. Campbell
Department of Ecology & Evolutionary Biology, Monash University
Clayton, Victoria, 3168 Australia

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ABSTRACT

A catalogue of references in the scientific literature to the mayflies (Ephemeroptera) of Australia is presented, along with indications of stages described and geographic distributions.

INTRODUCTION

This catalogue is intended to be a comprehensive, but certainly not exhaustive, listing of references to the described species of the Australian mayfly fauna. It includes all described species of mayflies from Australia. Unnamed species that have associated descriptions in the literature also are included. Included with each species is a summary of the geographic distributions listed in the scientific literature. Listed with each reference to a taxonomic paper is an indication of the stage or stages described or illustrated, if known. Only selected taxonomic references of special importance are listed for each genus.

There is no comprehensive key to the species of Australian mayflies, but useful keys to genera have been published for the nymphs by Suter (1979) and Williams (1980), and for nymphs and imagos by Peters and Campbell (1992). There is also an extremely good informal key to the genera of the Australian Leptophlebiidae produced by Dean (1989). However, probably less than 20 % of the Australian mayfly species have as yet been described, and many new genera also still await description, so any keys to the Australian fauna should be used with discretion.

Geographic distributions are given very broadly (generally by state). Because the mayfly fauna of Australia is still poorly known, and the documented geographic distribution of the described species we do know is extremely patchy, we feel that little purpose would be served by listing precise but very incomplete distributions in a work at such a broad scale as this one. As the Australian mayfly fauna becomes better known, more precise geographic listings will provide a more accurate picture of distributions.

The record of a heptageniid, described as a species of *Atopopus* by Harker (1950a) is an error, as noted by Williams (1968). The species *Atopopus spadix* Harker is in fact a leptophlebiid, and the family Heptageniidae is absent from Australia. A single species of ephemerellid, *Ephemerellina* (*Austremerella*) *picta* Riek, has so far only been collected from a single locality although there have now been fairly extensive ephemeropteran collections taken throughout eastern Australia. The restriction of the family to a small area in the middle of the eastern coast of Australia presents a biogeographical puzzle. At the locality, southeast of Brisbane, the nymphs are abundant, and appear to be shredders (Stuart Bunn, pers. comm.).

This paper is one in a continuing series of catalogues of the Ephemeroptera (cf. Hubbard & Pescador 1978, Hubbard & Peters 1978, Hubbard 1979b, 1982a, 1982b, 1986, 1987, 1990, Hubbard & Savage 1981, Campbell 1988, Hubbard *et al.* 1992, Domínguez *et al.* 1994).

SYSTEMATIC CATALOGUE

Caenidae

Tasmanocoenis Lestage

Tasmanocoenis Lestage, 1931a, Mem. Soc. Entomol. Belg. 23:53. Type-species:

Tasmanocoenis tonnoiri Lestage, original designation.

Tasmanocoenis; Demoulin, 1955a, Bull. Inst. Roy. Sci. Nat. Belg. 31(10):1.

Pseudocaenis Soldán, 1978, Acta Entomol. Bohemoslov. 75:124. Type-species:

Pseudocaenis queenslandica Soldán, original designation.

Tasmanocoenis; Suter, 1984, Trans. Roy. Soc. South Australia 108:105.

Tasmanocoenis arcuata Alba-Tercedor & Suter

Tasmanocoenis arcuata Alba-Tercedor & Suter, 1990, Aquatic Ins. 12:85, fig. 1, 3-4, 7-16, 19-22, 25-32 (male, female, nymph, egg).

Tasmanocaenis [sic] *arcuata*; Malzacher, 1987, Stutt. Beitr. Naturk. A407:9 (male).

Distribution: South Australia, Western Australia.

Tasmanocoenis jillongi Harker

Tasmanocoenis jillongi Harker, 1957b, Proc. Roy. Entomol. Soc. London (B)25:76, fig. 69-76 (male, nymph).

Tasmanocaenis [sic] *jillongi*; Malzacher, 1987, Stutt. Beitr. Naturk. A407:9 (male).

Tasmanocoenis jillongi; Campbell, 1988, Zool. Cat. Australia 6:3.

Tasmanocoenis jillongi; Alba-Tercedor & Suter, 1990, Aquatic Ins. 12:88.

Distribution: New South Wales.

Tasmanocoenis queenslandica (Soldán)

Pseudocaenis queenslandica Soldán, 1978, Acta Entomol. Bohemoslov. 75:124, fig. 25-35 (nymph).

Tasmanocoenis queenslandica; Suter, 1984, Trans. Roy. Soc. South Australia 108:110.

Tasmanocoenis queenslandica; Campbell, 1988, Zool. Cat. Australia 6:3.

Tasmanocoenis queenslandica; Alba-Tercedor & Suter, 1990, Aquatic Ins. 12:93.

Distribution: Queensland.

Tasmanocoenis rieki (Soldán)

Pseudocaenis rieki Soldán, 1978, Acta Entomol. Bohemoslov. 75:125 (nymph).

Tasmanocoenis rieki; Suter, 1984, Trans. Roy. Soc. South Australia 108:110.

Tasmanocoenis rieki; Campbell, 1988, Zool. Cat. Australia 6:3.

Tasmanocoenis rieki; Alba-Tercedor & Suter, 1990, Aquatic Ins. 12:93.

Distribution: New South Wales.

Tasmanocoenis tillyardi (Lestage)

- Caenis scotti* Tillyard [NEC Ulmer], 1936, Pap. Proc. Roy. Soc. Tasmania 1935:56, fig. 31-33 (male).
Coenis [sic] *tillyardi* Lestage, 1938, Bull. Ann. Soc. Entomol. Belg. 78:320 (new name for *Caenis scotti* Tillyard NEC Ulmer).
Caenis scotti; Harker, 1950a, Proc. Linn. Soc. New South Wales 75:25, fig. 13, 18, 37, 47, 89-101 (female, nymph, egg).
Caenis scotti; Harker, 1950b, Proc. Roy. Entomol. Soc. London (A)25:111.
Caenis tillyardi; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:266.
Tasmanocoenis tillyardi; Demoulin, 1955a, Bull. Inst. Roy. Sci. Nat. Belg. 31(10):4.
Tasmanocoenis tillyardi; Harker, 1957b, Proc. Roy. Entomol. Soc. London (B)26:77.
Tasmanocoenis tillyardi; van Bruggen, 1957, Nova Guinea, N.S. 8:33.
Tasmanocoenis tillyardi; Thew, 1960, Trans. Amer. Entomol. Soc. 86:202.
Tasmanocoenis tillyardi; Scholes, 1961, Fly-Fisher in Tasmania, p. 39, pl. 2 (male, female).
"Caenis" scotti; Williams, 1968, Australian Freshwater Life: fig. 70.2-4 (nymph).
Tasmanocoenis tillyardi; Suter, 1979, Trans. Roy. Soc. South Australia 103: fig. 3-5 (nymph).
Tasmanocoenis tillyardi; Suter & Bishop, 1980, p. 381 in Flannagan & Marshall, Advances in Ephemeroptera Biology.
Tasmanocoenis tillyardi; Williams, 1980, Australian Freshwater Life, fig. 76.3-5 (nymph).
Tasmanocoenis tillyardi; Marchant, 1982a, Austr. J. Mar. Freshw. Res. 33:173.
Tasmanocoenis tillyardi; Suter, 1984, Trans. Roy. Soc. South Australia 108:106.
Tasmanocoenis tillyardi; Bunn *et al.*, 1986, Freshw. Biol. 16:89.
Tasmanocoenis tillyardi; Campbell, 1986, Austr. J. Mar. Freshw. Res. 37:284.
Tasmanocoenis tillyardi; Suter, 1986, Rec. S. Austr. Mus. 19(17):362, fig. 30ac-d 31-32 (male, female, nymph).
Tasmanocaenis [sic] *tillyardi*; Malzacher, 1987, Stutt. Beitr. Naturk. A407:4, fig. 2a, 3b, 4b, 5b, 6c, 7b (male).
Tasmanocoenis tillyardi; Bunn, 1988, Austr. J. Mar. Freshw. Res. 39:790.
Tasmanocoenis tillyardi; Campbell, 1988, Zool. Cat. Australia 6:3.
Tasmanocoenis tillyardi; Alba-Tercedor & Suter, 1990, Aquatic Ins. 12:88, fig. 2, 18, 24 (male, nymph).
Tasmanocoenis tillyardi; Suter & Bishop, 1990, p. 85 in Campbell, Mayflies & Stoneflies.
Tasmanocoenis tillyardi; Peters & Campbell, 1991, Ins. of Australia 1:293.
Tasmanocoenis tillyardi; Hogg & Norris, 1991, Austr. J. Mar. Freshw. Res. 42:514.

Distribution: Tasmania, New South Wales, South Australia, ACT, Western Australia.

Tasmanocoenis tonnoiri Lestage

- Tasmanocoenis tonnoiri* Lestage, 1931a, Mem. Soc. Entomol. Belg. 31:54 (male).
Tasmanocoenis tonnoiri; Tillyard, 1936, Pap. Proc. Roy. Soc. Tasmania 1935:56.
Tasmanocaenis [sic] *tonnoiri*; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:266.
Tasmanocoenis tonnoiri; Demoulin, 1955a, Bull. Inst. Roy. Sci. Nat. Belg. 31(10):2, fig. 1 (male).
Tasmanocoenis tonnoiri; van Bruggen, 1957, Nova Guinea, N.S., 8:33.
Tasmanocoenis tonnoiri; Thew, 1960, Trans. Amer. Entomol. Soc. 86:202, fig. 2e (male).
Tasmanocoenis tonnoiri; Scholes, 1961, Fly-Fisher in Tasmania, p. 41.
Tasmanocoenis tonnoiri; Marchant *et al.*, 1984a, Austr. J. Mar. Freshw. Res. 35:795.
Tasmanocoenis tonnoiri; Marchant *et al.*, 1984b, Occ. Pap. Mus. Victoria 1:66.
Tasmanocoenis tonnoiri; Marchant *et al.*, 1984c, Austr. J. Mar. Freshw. Res. 35:371.
Tasmanocoenis tonnoiri; Metzeling *et al.*, 1984, Occ. Pap. Mus. Victoria 1:44.
Tasmanocoenis tonnoiri; Suter, 1984, Trans. Roy. Soc. South Australia 108:107, fig. 1-13 (male, nymph).

Tasmanocoenis tonnoiri Lestage (continued)

- Tasmanocoenis tonnoiri*; Campbell, 1986, Austr. J. Mar. Freshw. Res. 37:282.
Tasmanocoenis tonnoiri; Marchant, 1986, Austr. J. Mar. Freshw. Res. 37:114.
Tasmanocoenis tonnoiri; Chessman, 1986, Austr. J. Mar. Freshw. Res. 37:136.
Tasmanocoenis tonnoiri; Chessman & Robinson, 1987, Austr. J. Mar. Freshw. Res. 38:297.
Tasmanocaenis [sic] *tonnoiri*; Malzacher, 1987, Stutt. Beitr. Naturk. A407:9.
Tasmanocoenis tonnoiri; Campbell, 1988, Zool. Cat. Australia 6:4.
Tasmanocoenis tonnoiri; Alba-Tercedor & Suter, 1990, Aquatic Ins. 3:85, fig. 6, 17, 23 (male, nymph).
Tasmanocoenis tonnoiri; Peters & Campbell, 1991, Ins. of Australia 1:293.
Tasmanocoenis tonnoiri; Harris *et al.*, 1992, Hydrobiologia 246:57.

Distribution: Tasmania, Victoria.

***Wundacaenis* Suter**

- Wundacaenis* Suter, 1993, Invertebr. Taxon. 7:788. Type-species: *Wundacaenis dostini* Suter, original designation.

***Wundacaenis angulata* Suter**

- Wundacaenis angulata* Suter, 1993, Invertebr. Taxon. 7:795, fig. 32-56 (nymph).

Distribution: Queensland.

***Wundacaenis dostini* Suter**

- Wundacaenis dostini* Suter, 1993, Invertebr. Taxon. 7:789, fig. 1-31 (male, nymph).

Distribution: Northern Territory, Queensland, Western Australia.

***Wundacaenis flabellum* Suter**

- Wundacaenis flabellum* Suter, 1993, Invertebr. Taxon. 7:799, fig. 57-85 (nymph).

Distribution: New South Wales.

Ephemerellidae

***Ephemerellina* Lestage**

- Ephemerellina* Lestage, 1924, Rev. Zool. Afr. 12:346. Type-species: *Ephemerellina barnardi* Lestage, original designation.
Ephemerellina; Allen & Edmunds, 1963, Pacific Insects 5:12.
Ephemerellina; Allen, 1965, J. Kansas Entomol. Soc. 38:263.

Ephemerellina (Austremerella) Riek

Austremerella Riek, 1963, J. Entomol. Soc. Queensland 2:50. Type-species: *Austremerella picta* Riek, original designation.

Ephemerellina (Austremerella); Allen, 1965, J. Kansas Entomol. Soc. 38:263.

Ephemerellina (Austremerella) picta (Riek)

Austremerella picta Riek, 1963, J. Entomol. Soc. Queensland 2:50, fig. 1-10 (female, nymph).

Ephemerellina (Austremerella) picta; Allen, 1965, J. Kansas Entomol. Soc. 38:263.

Austremerella picta; Riek, 1970, Ins. of Australia fig. 12.9 (nymph).

Ephemerellina (Austremerella) picta; Campbell, 1988, Zool. Cat. Australia 6:5.

Ephemerellina (Austremerella) picta; Campbell, 1990, p. 151 in Campbell, Mayflies & Stoneflies.

Ephemerellina (Austremerella) picta; Peters & Campbell, 1991, Ins. of Australia 1:293, fig. 16.13e (nymph).

Distribution: Queensland.

Note. Despite significant search effort this family and species is known from only a single locality in Australia.

Heptageniidae

***Atopopus* Eaton**

Atopopus Eaton, 1881b, Entomol. Mon. Mag. 18:22. Type-species: *Atopopus tarsalis* Eaton, original designation.

***Atopopus spadix* Harker**

Atopopus spadix Harker, 1950a, Proc. Linn. Soc. New South Wales 75:27, fig. 23, 50, 54 (male).

Atopopus spadix; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:267.

Distribution: New South Wales.

Note. This species is, in reality, a leptophlebiid. The family Heptageniidae is not known from Australia.

Prosopistomatidae

***Prosopistoma* Latreille**

Binoculus Geoffroy, 1762:658. Suppressed by International Commission on Zoological Nomenclature, 1954:211.

Prosopistoma Latreille, 1833, N. Ann. Mus. Hist. Nat. Paris 2(1):33. Type-species:

Prosopistoma variegatum Latreille, subsequent designation by Eaton, 1884:150.

Chelysentomon Joly & Joly, 1872:438. Type-species: *Prosopistoma variegatum* Latreille, objective synonymy. [Unnecessary replacement name for *Prosopistoma* Latreille].

Prosopistoma; Hubbard, 1979a, p. 73 in Pasternak & Sowa, Proc. 2nd Int. Conf. Ephemeroptera.

Prosopistoma sp

Prosopistoma sedlaceki; Pearson & Penridge, 1979, J. Austr. Entomol. Soc. 18:362 (misidentification).

Prosopistoma sedlaceki; Campbell, 1988, Zool. Cat. Australia 6:6 (misidentification).

Prosopistoma sp (continued)

Prosopistoma sedlaceki; Campbell, 1990, p. 151 in Campbell, Mayflies & Stoneflies (not this species, but new).

Prosopistoma "undescribed species"; Peters & Campbell, 1991, Ins. of Australia 1:293, fig. 16.14a (nymph).

Distribution: Queensland.

Coloburiscidae

Coloburiscoides Lestage

Coloburiscoides Lestage, 1935, Bull. Ann. Soc. Entomol. Belg. 75:356. Type-species: *Coloburiscus giganteus* Tillyard, original designation.

Coloburiscus [partim]; Tillyard, 1933a, Proc. Linn. Soc. New South Wales 58:29.

Coloburiscoides; Riek, 1955, Austr. J. Zool. 3:271.

Coloburiscoides giganteus (Tillyard)

Coloburiscus giganteus Tillyard, 1933a, Proc. Linn. Soc. New South Wales 58:22, fig. 32-45, pl. 1 fig. 7-8 (male, female, nymph).

Coloburiscoides giganteus; Lestage, 1935, Bull. Ann. Soc. Entomol. Belg. 75:356.

Coloburiscus giganteus; Harker, 1950a, Proc. Linn. Soc. New South Wales 75:29.

Coloburiscoides giganteus; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:266.

Coloburiscoides giganteus; Riek, 1955, Austr. J. Zool. 3:273.

Coloburiscoides giganteus; Wisely, 1961, Trans. Roy. Soc. New Zealand, Zool., 1:253.

Coloburiscoides giganteus; Metzeling *et al.*, 1984, Occ. Pap. Mus. Victoria 1:52.

Coloburiscoides giganteus; Campbell, 1985, Verh. Internat. Verein. Limnol. 22:3250.

Coloburiscoides giganteus; Campbell, 1986, Austr. J. Mar. Freshw. Res. 37:271.

Coloburiscoides giganteus; Campbell, 1988, Zool. Cat. Australia 6:7.

Coloburiscoides giganteus; Campbell, 1991, Aquatic Ins. 13:79.

Coloburiscoides giganteus; Peters & Campbell, 1991, Ins. of Australia 1:289.

Distribution: New South Wales, Victoria.

Coloburiscoides haleuticus (Eaton)

Coloburus haleuticus Eaton, 1871, Trans. Entomol. Soc. London 1871:133, pl. 6 fig. 7-7a (male).

Coloburus haleuticus; Eaton, 1885, Trans. Linn. Soc. London (2)3:203. pl. 18 fig. 32c, pl. 19 fig. 32 (male).

Coloburiscus haleuticus; Ulmer, 1908, Fauna Südwest-Australiens 2:41.

Coloburiscus haleuticus; Ulmer, 1916, Ark. Zool. 10:17.

Coloburiscus haleuticus; Ulmer, 1920b, Stett. Entomol. Zeit. 81:134.

Coloburiscus haleuticus; Tillyard, 1926, Ins. of Australia and New Zealand p. 62

Coloburiscus haleuticus; Tillyard, 1933a, Proc. Linn. Soc. New South Wales 58:22.

Coloburiscus haleuticus; Harker, 1950a, Proc. Linn. Soc. New South Wales 75:29.

Coloburiscoides haleuticus (Eaton) (continued)

- Coloburiscus haleuticus*; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:266.
Coloburiscoides haleuticus; Riek, 1955, Austr. J. Zool. 3:273.
Coloburiscoides haleuticus; Campbell, 1985, Verh. Internat. Verein. Limnol. 22:3250.
Coloburiscoides haleuticus; Campbell, 1986, Austr. J. Mar. Freshw. Res. 37:276.
Coloburiscoides haleuticus; Campbell, 1988, Zool. Cat. Australia 6:7.
Coloburiscoides haleuticus; Campbell, 1991, Aquatic Ins. 13:79.
Coloburiscoides haleuticus; Peters & Campbell, 1991, Ins. of Australia 1:289, fig. 16.4c-d (egg).

Distribution: New South Wales, Victoria, ACT.

Coloburiscoides munionga (Tillyard)

- Coloburiscus munionga* Tillyard, 1933a, Proc. Linn. Soc. New South Wales 58:29, fig. 44-45, pl. 1 fig. 9-10 (male, female, nymph).
Coloburiscoides munionga; Lestage, 1935, Bull. Ann. Soc. Entomol. Belg. 75:356.
Coloburiscus munionga; Harker, 1950a, Proc. Linn. Soc. New South Wales 75:29.
Coloburiscoides munionga; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:266.
Coloburiscoides munionga; Riek, 1955, Austr. J. Zool. 3:272.
Coloburiscoides munionga; Wisely, 1961, Trans. Roy. Soc. New Zealand, Zool., 1:253.
Coloburiscoides munionga; Hortle & Lake, 1982, Austr. J. Mar. Freshw. Res. 33:1077 (erroneous identification).
Coloburiscoides munionga; Campbell, 1985, Verh. Internat. Verein. Limnol. 22:3250.
Coloburiscoides munionga; Lake *et al.*, 1985, Verh. Internat. Verein. Limnol. 22:2143.
Coloburiscoides munionga; Campbell, 1986, Austr. J. Mar. Freshw. Res. 37:271.
Coloburiscoides munionga; Campbell, 1988, Zool. Cat. Australia 6:7.
Coloburiscoides munionga; Peters & Campbell, 1991, Ins. of Australia 1:289

Distribution: New South Wales.

Baetidae*Baetis* Leach

- Baetis* Leach, 1815, Brewster's Edinb. Encycl. 9(1):137. Type species: *Ephemera fuscata* Linnaeus, subsequent designation by Intern. Comm. Zool. Nomencl., 1966, Bull. Zool. Nomencl. 23:209.
Brachyphlebia Westwood, 1840, Intro. Mod. Class. Ins., vol. 2, p. 25. Type species: *Ephemera fuscata* Linnaeus (misidentified as *Ephemera bioculata*), monotypy.
Baetis; International Commission on Zoological Nomenclature, 1966:209 (designates *Ephemera fuscata* Linnaeus as type species).

Baetis baddamsae Harker

- Baetis baddamsae* Harker, 1950a, Proc. Linn. Soc. New South Wales 75:21, fig. 15, 27, 49, 62 (male, female, nymph).
Baetis baddamsae; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:266.
Baetis baddamsae; Norris *et al.*, 1982, Austr. J. Mar. Freshw. Res. 33:791.
Baetis baddamsae; Marchant *et al.*, 1984c, Austr. J. Mar. Freshw. Res. 35:371.
Baetis baddamsae; Campbell, 1988, Zool. Cat. Australia 6:9.

Distribution: New South Wales, Tasmania.

Baetis confluens Harker

Baetis confluens Harker, 1950a, Proc. Linn. Soc. New South Wales 75:23, fig. 14, 26, 58 (male).

Baetis confluens; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:263 (nymph).

Baetis confluens; Campbell, 1988, Zool. Cat. Australia 6:9.

Distribution: New South Wales.

Baetis frater Tillyard

Baetis frater Tillyard, 1936, Pap. Proc. Roy. Soc. Tasmania 1935:50, fig. 20, 24, 26-28 (male).

Baetis frater; Harker, 1950a, Proc. Linn. Soc. New South Wales 75:29.

Baetis frater; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:266.

Baetis frater; Scholes, 1961, Fly-Fisher in Tasmania, p. 36, fig. 8-9, pl. 2 (male, female, nymph).

Baetis frater; Suter, 1986, Rec. S. Austr. Mus. 19:354.

Baetis frater; Campbell, 1988, Zool. Cat. Australia 6:9.

Distribution: Tasmania.

Baetis soror Ulmer

Baetis soror Ulmer, 1908, Fauna Südwest-Australiens 2:44, fig. 31-34 (male, female).

Baetis soror; Ulmer, 1916, Ark. Zool. 10:17.

Baetis soror; Ulmer, 1920b, Stett. Entomol. Zeit. 81:124.

Baetis soror; Tillyard, 1926, Ins. of Australia and New Zealand p. 64.

Baetis soror; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:266.

Baetis soror; Suter & Bishop, 1980, p. 381 in Flannagan & Marshall, Advances in Ephemeroptera Biology.

Baetis ?soror; Bunn *et al.*, 1986, Freshw. Biol. 16:89.

Baetis soror; Campbell, 1986, Austr. J. Mar. Freshw. Res. 37:284.

Baetis soror; Suter, 1986, Rec. S. Austr. Mus. 19:354 (imago, nymph).

Baetis soror; Bunn, 1988, Austr. J. Mar. Freshw. Res. 39:789.

Baetis soror; Campbell, 1988, Zool. Cat. Australia 6:9.

Baetis soror; Suter & Bishop, 1990, p. 85 in Campbell, Mayflies & Stoneflies.

Baetis soror; Peters & Campbell, 1991, Ins. of Australia 1:286.

Distribution: South Australia, Western Australia, New South Wales.

Bungona Harker

Bungona Harker, 1957b, Proc. Roy. Entomol. Soc. London (B)26:73. Type-species:

Bungona narilla Harker, original designation.

Bungona narilla Harker

Bungona narilla Harker, 1957b, Proc. Roy. Entomol. Soc. London (B)26:73, fig. 48-57 (male, female, nymph).

Bungona narilla; Campbell, 1988, Zool. Cat. Australia 6:9.

Bungona narilla; Peters & Campbell, 1991, Ins. of Australia 1:288.

Distribution: New South Wales.

Centroptilum Eaton

Centroptilum Eaton, 1869, Entomol. Mon. Mag. 6:132. Type-species: *Ephemera luteola* Müller, original designation.

Centroptilum collendum Harker

Centroptilum collendum Harker, 1957b, Proc. Roy. Entomol. Soc. London (B)93:75, fig. 58-68 (male, female, nymph).

Centroptilum collendum; Campbell, 1988, Zool. Cat. Australia 6:10.

Distribution: New South Wales.

Centroptilum elongatum Suter

Centroptilum elongatum Suter, 1986, Rec. S. Austr. Mus. 19(17):355, fig. 22c-d, 23-24 (male, female, nymph).

Centroptilum elongatum; Campbell, 1988, Zool. Cat. Australia 6:10.

Distribution: Victoria, South Australia.

Cloeon Leach

Cloeon Leach, 1815, Brewster's Edinb. Encyclop. 9(1):137. Type-species: *Ephemera diptera* Linnaeus [as *Cloeon pallida* Leach], monotypy.

Cloe Burmeister, 1839:797. Type-species: *Ephemera diptera* Linnaeus, objective synonymy. Unnecessary replacement name for *Cloeon* Leach. Objective synonym of *Cloeon* Leach.

Cloeopsis Eaton, 1866, Ann. Mag. Nat. Hist. (3)18:146. Type-species: *Ephemera diptera* Linnaeus, monotypy. Objective synonym of *Cloeon* Leach.

Austrocloeon Barnard, 1932, Trans. Roy. Soc. South Africa 20:217. [nomen nudum].

Austrocloeon Barnard, 1940, Ann. S. Afr. Mus. 32:616. Type-species: *Cloeon africanum* Esben-Petersen, original designation.

Cloeon emmavillensis Riek, 1954

Ephemera culleni [partim] Etheridge & Olliff, 1890, Mem. Geol. Surv. New South Wales, Pal. 7:8, pl. 1 fig. 9.

Cloeon emmavillensis Riek, 1954, Rec. Austr. Mus. 23:160, pl. 10 fig. 6-7.

Cloeon emmavillensis; Hubbard, 1987, Fossilium Catalogus. I: Animalia 129:36.

Distribution: Upper Tertiary of New England (fossil).

Cloeon fluviatile Ulmer

Cloeon fluviatile Ulmer, 1920a, Archiv f. Naturg. 85A(11):54, fig. 38-40 (male, female).

Cloeon fluviatile; Ulmer, 1920b, Stett. Entomol. Zeit. 81:125.

Cloeon fluviatile; Lestage, 1928, Ins. of Samoa 7(2):49.

Cloeon fluviatile; Lestage, 1929, Ann. Soc. Entomol. France 98:99.

Cloeon fluviatile; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:266.

Cloeon fluviatile; van Bruggen, 1957, Nova Guinea, N.S., 8:36.

Cloeon fluviatile; Marchant, 1982a, Austr. J. Mar. Freshw. Res. 33:173.

Cloeon fluviatile; Marchant, 1982b, Austr. J. Mar. Freshw. Res. 33:333.

Cloeon fluviatile Ulmer (continued)

- Cloeon fluviatile*; Campbell, 1986, Austr. J. Mar. Freshw. Res. 37:261.
Cloeon fluviatile; Suter, 1986, Rec. S. Austr. Mus. 19(17):357, fig. 25a-f, 26 (imago, nymph).
Cloeon fluviatile; Campbell, 1988, Zool. Cat. Australia 6:10.
Cloeon fluviatile; Campbell, 1990, p. 150 in Campbell, Mayflies & Stoneflies.
Cloeon fluviatile; Peters & Campbell, 1991, Ins. of Australia 1:288.

Distribution: South Australia, Northern Territory, also New Guinea.

Cloeon nandirum Harker

- Cloeon nandirum* Harker, 1957b, Proc. Roy. Entomol. Soc. London (B)26:72, fig. 40-47 (male, nymph).
Cloeon nandirum; Suter, 1986, Rec. S. Austr. Mus. 19(17):360 (male, nymph).
Cloeon nandirum; Campbell, 1988, Zool. Cat. Australia 6:10.

Distribution: Queensland.

Cloeon paradieniense Suter

- Cloeon paradieniensis* Suter, 1986, Rec. S. Austr. Mus. 19(17):359, fig. 25g-k, 27 (male, female, nymph).
Cloeon paradieniense; Campbell, 1988, Zool. Cat. Australia 6:10.

Distribution: South Australia.

Cloeon tasmaniae Tillyard

- Cloeon tasmaniae* Tillyard, 1936, Pap. Proc. Roy. Soc. Tasmania 1935:53, fig. 29-30 (male, female).
Cloeon tasmaniae; Harker, 1950a, Proc. Linn. Soc. New South Wales 75:29.
Cloeon tasmaniae; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:266.
Cloeon tasmaniae; van Bruggen, 1957, Nova Guinea, N.S., 8:36.
Cloeon tasmaniae; Scholes, 1961, Fly-Fisher in Tasmania, p. 38, fig. 10 (male, female).
Cloeon tasmaniae; Suter, 1986, Rec. S. Austr. Mus. 19:360 (male).
Cloeon tasmaniae; Campbell, 1988, Zool. Cat. Australia 6:10.

Distribution: Tasmania.

Cloeon virens Klapálek

- Cloeon virens* Klapálek, 1905, Mitt. Nat. Mus. Hamburg 22:106 (female).
Cloeon virens; Ulmer, 1912, Entomol. Mitteil. 1:369.
Cloeon virens; Ulmer, 1913, Notes Leyden Mus. 35:112 (male, female).
Cloeon viridis [sic]; Ulmer, 1916, Ark. Zool. 10:17.
Cloeon virens; Ulmer, 1920b, Stett. Entomol. Zeit. 81:125.
Cloeon virens; Ulmer, 1924, Treubia 6(1):53, fig. 26-27 (male, female).
Chloeon [sic] *viridis*; Tillyard, 1926, Ins. of Australia and New Zealand p. 64 (male).
Cloeon virens; Ulmer, 1926, Archiv f. Naturg. 91A(5):100.
Cloeon virens; Lestage, 1928, Ins. of Samoa 7(2):49.
Cloeon virens; Lestage, 1929, Ann. Soc. Entomol. France 98:100.
Cloeon virens; Wu, 1935, Cat. Ins. Sin. 1:251.

Cloeon virens Klapálek (continued)

- Cloeon virens*; Ulmer, 1936, Peking Nat. Hist. Bull. 19:211.
Cloeon viridis [sic]; Tillyard, 1936, Pap. Proc. Roy. Soc. Tasmania 1935:55.
Cloeon virens; Ulmer, 1939, Archiv f. Hydrobiol. Suppl. 56:530 (male, female).
Cloeon virens; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:266.
Cloeon virens; Suter, 1986, Rec. S. Austr. Mus. 19(17):360 (male).
Cloeon virens; Campbell, 1988, Zool. Cat. Australia 6:10.
Cloeon virens; Campbell, 1990, p. 150 in Campbell, Mayflies & Stoneflies.

Distribution: Western Australia, also Java, Sumatra, Sumba, Taiwan, and China.

Pseudocloeon Klapálek

- Pseudocloeon* Klapálek, 1905, Mitt. Nat. Mus. Hamburg 22:105. Type species:
Pseudocloeon kraepelini Klapálek, monotypy.
Pseudocloeon; Waltz & McCafferty, 1985, Proc. Entomol. Soc. Washington 87:800.
Pseudocloeon; Waltz & McCafferty, 1987, J. New York Entomol. Soc. 95:554.

Pseudocloeon kraepelini Klapálek

- Pseudocloeon kraepelini* Klapálek, 1905, Mt. Mus. Hamburg 22:105 (male).
Pseudocloeon kraepelini; Ulmer, 1913, Notes Leyden Mus. 35:112.
Pseudocloeon kraepelini; Ulmer, 1916, Ark. Zool. 10:17.
Pseudocloeon kraepelini; Ulmer, 1920b, Stett. Entomol. Zeit. 81:125.
Pseudocloeon kraepelini; Ulmer, 1924, Treubia 6:66, fig. 32-33 (male).
Pseudocloeon kraepelini; Ulmer, 1939, Archiv f. Hydrobiol. Suppl. 16:102, fig. 102-104 (male, female).
Pseudocloeon kraepelini; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:266.
Pseudocloeon kraepelini; Müller-Liebenau, 1981, Mitt. Hamb. Zool. Mus. Inst. 78:199, fig. 3a (male; designation of lectotype).
Pseudocloeon kraepelini; Waltz & McCafferty, 1985, Proc. Entomol. Soc. Washington 87:801, fig. 1-3 (male; designation of lectotype).
Pseudocloeon kraepelini; Waltz & McCafferty, 1987, J. New York Entomol. Soc. 95:554.
Pseudocloeon kraepelini; Campbell, 1988, Zool. Cat. Australia 6:10.
Pseudocloeon kraepelini; Campbell, 1990, p. 150 in Campbell, Mayflies & Stoneflies.

Distribution: Queensland, also Java.

*Siphonuridae**Ameletoides* Tillyard

- Ameletoides* Tillyard, 1933a, Proc. Linn. Soc. New South Wales 58:5. Type-species:
Ameletoides lacusalbinae Tillyard, original designation.

Ameletoides lacusalbinae Tillyard

- Ameletoides lacus-albinae* Tillyard, 1933a, Proc. Linn. Soc. New South Wales 58:6, fig. 1-11, pl. 1 fig. 1-2 (male, female, nymph).
Ameletoides lacus-albinae; Harker, 1950a, Proc. Linn. Soc. New South Wales 75:29.
Ameletoides lacus-albinae; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:266.

Ameletoides lacusalbinae Tillyard (continued)

- Ameletoides lacus-albinae*; Riek, 1955, Austr. J. Zool. 3:268.
Ameletoides lacus-albinae; Williams, 1968, Australian Freshwater Life: fig. 70.17 (nymph).
Ameletoides lacus-albinae; Metzeling *et al.*, 1984. Occ. Pap. Mus. Victoria 1:44.
Ameletoides lacusalbinae; Campbell, 1985, Verh. Internat. Verein Limnol. 22:3250.
Ameletoides lacusalbinae; Campbell, 1986, Austr. J. Mar. Freshw. Res. 37:261-288.
Ameletoides lacusalbinae; Campbell, 1988, Zool. Cat. Australia 6:12.
Ameletoides lacusalbinae; Peters & Campbell, 1991, Ins. of Australia 1:287.

Distribution: New South Wales, Tasmania.

***Australurus* Jell & Duncan**

- Australurus* Jell & Duncan, 1986, Mem. Assoc. Australasian Palaeontologists 3:120.
 (Type-species: *Australurus plexus* Jell & Duncan, original designation).

Australurus plexus Jell & Duncan

- Australurus plexus* Jell & Duncan, 1986, Mem. Assoc. Australasian Palaeontologists 3:122,
 fig. 4-6 (nymph).

Distribution: Lower Cretaceous of Victoria (fossil).

***Dulcimanna* Jell & Duncan**

- Dulcimanna* Jell & Duncan, 1986, Mem. Assoc. Australasian Palaeontologists 3:124.
 (Type-species: *Dulcimanna sculptor* Jell & Duncan, original designation).

Dulcimanna sculptor Jell & Duncan

- Dulcimanna sculptor* Jell & Duncan, 1986, Mem. Assoc. Australasian Palaeontologists
 3:124, fig. 3g-h, 7 (nymph).

Distribution: Lower Cretaceous of Victoria (fossil).

***Promirara* Jell & Duncan**

- Promirara* Jell & Duncan, 1986, Mem. Assoc. Australasian Palaeontologists 3:116. (Type-species: *Promirara cephalota* Jell & Duncan, original designation).

Promirara cephalota Jell & Duncan

- Promirara cephalota* Jell & Duncan, 1986, Mem. Assoc. Australasian Palaeontologists
 3:120, fig. 1, 2c-i, 3a-d (nymph).

Distribution: Lower Cretaceous of Victoria (fossil).

Siphonuridae? gen. nov. Jell & Duncan

Siphonuridae? Jell & Duncan, 1986, Mem. Assoc. Australasian Palaeontologists 3:126, fig. 2a-b, 3e-f (nymph).

Distribution: Lower Cretaceous of Victoria (fossil).

Oniscigastridae***Tasmanophlebia* Tillyard**

- Tasmanophlebia* Tillyard, 1921, Proc. Linn. Soc. New South Wales 46:410. Type-species: *Tasmanophlebia lacustris* Tillyard, original designation. Synonym *Tasmanophlebiodes* Lestage.
Tasmanophlebiodes Lestage, 1935, Bull. Ann. Soc. Entomol. Belgique 75:350 (not available, Article 13b, no type designated).
Tasmanophlebia; Riek, 1955, Austr. J. Zool. 3:268.

***Tasmanophlebia lacuscoerulei* Tillyard**

- Tasmanophlebia lacus-coerulei* Tillyard, 1933a, Proc. Linn. Soc. New South Wales 58:13 fig. 17-27, pl. 1 fig. 3-4 (male, female, nymph).
Tasmanophlebiodes lacus-coerulei; Lestage, 1935, Bull. Ann. Soc. Entomol. Belg. 75:350.
Tasmanophlebia lacus-coerulei; Ulmer, 1938, Arbeit. Morpholog. Taxonom. Entomol. Berlin-Dahlem 5:92, fig. 9.
Tasmanophlebia lacus-coerulei; Harker, 1950a, Proc. Linn. Soc. New South Wales 75:29.
Tasmanophlebiodes laeus-coerulei [sic]; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:267.
Tasmanophlebiodes lacus-coerulei; Riek, 1955, Austr. J. Zool. 3:270.
Tasmanophlebiodes lacus-coerulei; Metzeling *et al.*, 1984, Occ. Pap. Mus. Victoria 1:44.
Tasmanophlebia lacuscoerulei; Marchant *et al.*, 1984b, Occ. Pap. Mus. Victoria 1:66.
Tasmanophlebia lacuscoerulei; Campbell, 1985, Verh. Int. Verein. Limnol. 22:3250.
Tasmanophlebia lacuscoerulei; Campbell, 1988, Zool. Cat. Australia 6:13.
Tasmanophlebia lacuscoerulei; Peters & Campbell, 1991, Ins. of Australia 1:288, fig. 16.4a (egg).

Distribution: New South Wales.

***Tasmanophlebia lacustris* Tillyard**

- Tasmanophlebia lacustris* Tillyard, 1921, Proc. Linn. Soc. New South Wales 46:410, fig. 1-2, pl. 34 (male, female).
Tasmanophlebia lacustris; Tillyard, 1926, Ins. of Australia and New Zealand p. 62, pl. 10 fig. 3 (male).
Tasmanophlebia lacustris; Tillyard, 1933a, Proc. Linn. Soc. New South Wales 58:12.
Tasmanophlebia lacustris; Tillyard, 1936, Pap. Proc. Roy. Soc. Tasmania 1935:28, fig. 1-3, pl. 1 fig. 1-2 (male, female, nymph).
Tasmanophlebia lacustris; Harker, 1950a, Proc. Linn. Soc. New South Wales 75:29.
Tasmanophlebia lacustris; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:267.
Tasmanophlebia lacustris; Riek, 1955, Austr. J. Zool. 3:270.
Tasmanophlebia lacustris; Scholes, 1961, Fly-Fisher in Tasmania, p.21, fig. 6, pl. 1 (male, female, nymph).
Tasmanophlebia lacustris; Timms, 1978, Archiv f. Hydrobiol. 81:436.

Tasmanophlebia lacustris Tillyard (continued)

- Tasmanophlebia lacustris*; Campbell, 1981, Aquatic Ins. 3:35.
Tasmanophlebia lacustris; Norris *et al.*, 1982, Austr. J. Mar. Freshw. Res. 33:791.
Tasmanophlebia lacustris; Campbell, 1986, Austr. J. Mar. Freshw. Res. 37:271.
Tasmanophlebia lacustris; Campbell, 1988, Zool. Cat. Australia 6:13.
Tasmanophlebia lacustris; Peters & Campbell, 1991, Ins. of Australia 1:288.
Tasmanophlebia lacustris; Dean & Cartwright, 1992, Occas. Pap. Mus. Victoria 5:74.

Distribution: Tasmania.

Tasmanophlebia nigrescens Tillyard

- Tasmanophlebia nigrescens* Tillyard, 1933a, Proc. Linn. Soc. New South Wales 58:18, fig. 28-29, 30b, pl. 1 fig. 5-6 (male, female, nymph).
Tasmanophlebiodes nigrescens; Lestage, 1935, Bull. Ann. Soc. Entomol. Belg. 75:350.
Tasmanophlebia nigrescens; Ulmer, 1938, Arbeit. Morpholog. Taxonom. Entomol. Berlin-Dahlem 5:92.
Tasmanophlebia nigrescens; Harker, 1950a, Proc. Linn. Soc. New South Wales 75:29.
Tasmanophlebiodes nigrescens; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:267.
Tasmanophlebiodes nigrescens; Riek, 1955, Austr. J. Zool. 3:270.
Tasmanophlebia nigrescens; Timms, 1980, Proc. Linn. Soc. New South Wales 104:123.
Tasmanophlebia nigrescens; Campbell, 1988, Zool. Cat. Australia 6:13.
Tasmanophlebia nigrescens; Peters & Campbell, 1991, Ins. of Australia 1:288.

Distribution: New South Wales.

Tasmanophlebia sp.

- Tasmanophlebia* sp.; Suter, 1986, Rec. S. Austr. Mus. 19(17):361, fig. 22e-f, 29, 30a-b (male, nymph).

Distribution: South Australia, Victoria.

Ameletopsidae*Mirawara* Harker

- Mirawara* Harker, 1954, Trans. Roy. Entomol. Soc. London 105:261. Type-species: *Mirawara aapta* Harker, original designation.

Mirawara aapta Harker

- Mirawara aapta* Harker, 1954, Trans. Roy. Entomol. Soc. London 105:261, fig. 69-71 (male, female).
Mirawara aapta; Riek, 1955, Austr. J. Zool. 3:279, pl. 1 fig. 7-8, pl. 2 fig. 4-6 (male, female).
Mirawara aapta; Riek, 1970, Ins. of Australia p. 233.
Mirawara aapta; Campbell, 1985, Verh. Int. Verein Limnol. 22:3250-3259.
Mirawara aapta; Campbell, 1986, Austr. J. Mar. Freshw. Res. 37:269.
Mirawara aapta; Campbell, 1988, Zool. Cat. Australia 6:14.

Mirawara aapta Harker (continued)*Mirawara aapta*; Campbell, 1991, Aquatic Ins. 13:79.*Mirawara aapta*; Peters & Campbell, 1991, Ins. of Australia 1:289

Distribution: Victoria, New South Wales, Queensland, ACT.

Mirawara megaloprepria Riek*Mirawara megaloprepria* Riek, 1955, Austr. J. Zool. 3:275, pl. 1 fig. 1-6, 9, pl. 2 fig. 1-3 (male, female, nymph).*Mirawara megaloprepria*; Campbell, 1988, Zool. Cat. Australia 6:14.

Distribution: Queensland.

Mirawara purpurea Riek*Mirawara purpurea* Riek, 1955, Austr. J. Zool. 3:278 (female).*Mirawara purpurea*; Campbell, 1980, p. 297 in Flannagan & Marshall, Advances in Ephemeroptera Biology.*Mirawara purpurea*; Campbell, 1988, Zool. Cat. Australia 6:14.

Distribution: Victoria, New South Wales, Queensland.

Leptophlebiidae*Atalomicria* Harker*Atalomicria* Harker, 1954, Trans. Roy. Entomol. Soc. London 105:252. Type-species:*Atalophlebia uncinata* Ulmer, original designation.*Atalomicria*; Campbell & Peters, 1993, Aquatic Ins. 15:90.*Atalomicria banjdlalama* Campbell & Peters*Atalomicria banjdlalama* Campbell & Peters, 1993, Aquatic Ins. 15:97, fig. 3-4, 13, 18, 24, 29-30, 33, 41-42, 45-46, 51, 56 (male, female, nymph).

Distribution: Queensland.

Atalomicria bifasciata Campbell & Peters*Atalomicria bifasciata* Campbell & Peters, 1993, Aquatic Ins. 15:103, fig. 9-10, 16, 21, 26, 36, 49, 54, 58 (male, female, nymph).

Distribution: Queensland.

Atalomicria chessmani Campbell & Peters*Atalomicria chessmani* Campbell & Peters, 1993, Aquatic Ins. 15:101, fig. 7-8, 15, 20, 25, 35, 48, 53, 59, 61 (male, female, nymph, egg).

Distribution: Victoria.

Atalomicrica dalagara Campbell & Peters

Atalomicrica dalagara Campbell & Peters, 1993, Aquatic Ins. 15:99, fig. 5-6, 14, 19, 34, 47, 52, 57 (male, nymph).

Distribution: Queensland.

Atalomicria sexfasciata (Ulmer)

Atalophlebia sexfasciata Ulmer, 1916, Ark. Zool. 10(4):5, fig. 5-6 (male).

Atalophlebia sexfasciata; Ulmer, 1920b, Stett. Entomol. Zeit. 81:115.

Atalomicria sexfasciata; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:252.

Atalomicria sexfasciata; Campbell, 1988, Zool. Cat. Australia 6:16.

Atalomicria sexfasciata; Campbell & Peters, 1993, Aquatic Ins. 15:95, fig. 1, 11-12, 17, 23, 28, 30-32, 37-40, 43-44, 50, 55, 60 (male, female, nymph, egg).

Distribution: Queensland.

Atalomicria uncinata (Ulmer)

Atalophlebia uncinata Ulmer, 1916, Ark. Zool. 10(4):3, fig. 3-4 (male).

Atalophlebia uncinata; Ulmer, 1920b, Stett. Entomol. Zeit. 81:115.

Atalomicria uncinata; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:253, fig. 41 (male).

Atalomicria uncinata; Campbell, 1988, Zool. Cat. Australia 6:16.

Atalomicria uncinata; Campbell & Peters, 1993, Aquatic Ins. 15:93, fig. 22 (male).

Distribution: Queensland.

Atalomicria yugana (Harker)

Atalophlebia yugana Harker, 1957a, Proc. Roy. Entomol. Soc. London (B)26:63, fig. 1-10 (female, nymph).

Atalophlebia yugana; Campbell, 1988, Zool. Cat. Australia 6:18.

Atalophlebia yugana; Peters & Campbell, 1991, Ins. of Australia 1: fig. 16.3a, 16.15c (nymph).

Atalomicria yugana; Campbell & Peters, 1993, Aquatic Ins. 15:89.

Distribution: New South Wales.

Atalophlebia Eaton

Atalophlebia Eaton, 1881a, Entomol. Mon., Mag. 17:193. Type-species: *Ephemera australis* Walker, original designation.

Atalophlebia albiterminata Tillyard

Baetis costalis Burmeister, 1839, Handb. Entomol. 2(2):800. [preoccupied].

Potamanthus costalis; Pictet, 1843, Hist. Nat. Ephem. p. 237.

Potamanthus? costalis; Walker, 1853, List. Neur. Ins. Brit. Mus. 3:546 (female).

Leptophlebia costalis; Eaton, 1871, Trans. Entomol. Soc. London 1871:81 (male).

Atalophlebia costalis; Eaton, 1884, Trans. Linn. Soc. London (2)3:89 (male).

Atalophlebia costalis; Ulmer, 1908, Fauna Südwest-Australiens 2:41.

Atalophlebia albiterminata Tillyard (continued)

- Atalophlebia costalis*; Ulmer, 1916, Ark. Zool. 10:17.
Atalophlebia costalis; Ulmer, 1920a, Arch. f. Naturges. 85A(11):17.
Atalophlebia costalis; Ulmer, 1921, Arch. f. Naturges. 87:233, fig. 2 (male).
Atalophlebia costalis; Tillyard, 1926, Ins. of Australia and New Zealand p. 63, fig. E3, E6, pl. 10 fig. 5 (female, nymph).
Atalophlebia albiterminata Tillyard, 1936, Pap. Proc. Roy. Soc. Tasmania 1935:39, fig. 6, 13, 18, pl. 1 fig. 7-8 (male, female, nymph).
Atalophlebia costalis; Tillyard, 1936, Pap. Proc. Roy. Soc. Tasmania 1935:39 (nymph).
Atalophlebia albiterminata; Harker, 1950a, Proc. Linn. Soc. New South Wales 75:10, fig. 3, 28, 40-41, 52, 64-66 (male, female, nymph, egg).
Atalophlebia albiterminata; Harker, 1950b, Proc. Roy. Entomol. Soc. London (A)25:11.
Atalophlebia albiterminata; Harker, 1954, Trans. Entomol. Soc. London 105:248. [= *Atalophlebia costalis*].
Atalophlebia albiterminata; Harker, 1957a, Proc. Roy. Entomol. Soc. London (B)26:67.
Atalophlebia albiterminata; Harker, 1957b, Proc. Roy. Entomol. Soc. London (B)26:69.
Atalophlebia albiterminata; Penniket, 1961, New Zealand Entomol. 2:7.
Atalophlebia albiterminata; Scholes, 1961, Fly-Fisher in Tasmania, p.29, pl. 2 (male, female).
Atalophlebia albiterminata; Campbell, 1988, Zool. Cat. Australia 6:16.
Atalophlebia albiterminata; Campbell, 1990, p. 149 in Mayflies & Stoneflies.
Atalophlebia albiterminata; Dean & Cartwright, 1992, Occas. Pap. Mus. Victoria 5:74.
Atalophlebia albiterminata; Campbell, 1993, Aquatic Ins. 15:164.

Distribution: Tasmania, Victoria, New South Wales, eastern Australia.

Atalophlebia aurata Suter

- Atalophlebia auratus* Suter, 1986, Rec. S. Austr. Mus. 19(17):345, fig. 5-6, 7a-f, 14c (male & female imagos, nymph; South Australia).
Atalophlebia aurata; Campbell, 1988, Zool. Cat. Australia 6:17 (SA).

Distribution: South Australia.

Atalophlebia australasica (Pictet)

- Baetis australasicus* Pictet, 1843, Hist. Nat. Ephem. p. 189, pl. 24 fig. 1-2.
Baetis australasica; Walker, 1853, List. Neur. Ins. Brit. Mus. 3:559.
Leptophlebia australasica; Eaton, 1871, Trans. Entomol. Soc. London 1871:78 pl. 2 fig 2, pl. 4 fig. 15, 15a-b (male, female).
Atalophlebia australasica; Eaton, 1884, Trans. Linn. Soc. London (2)3:86, pl. 10 fig. 16c (male, female).
Atalophlebia australasica; Froggatt, 1907, Australian Insects p. 54 (adult).
Atalophlebia australasica; Ulmer, 1908, Fauna Südwest-Australiens 2:41.
Atalophlebia australasica; Ulmer, 1916, Ark. Zool. 10:2, fig. 1-2 (male, female).
Atalophlebia australasica; Ulmer, 1920a, Arch. f. Naturges. 85A(11):17.
Atalophlebia australasica; Ulmer, 1920b, Stett. Entomol. Zeit. 81:115.
Atalophlebia australasica; Ulmer, 1921, Arch. f. Naturges. 87:233.
Atalophlebia australasica; Harker, 1950a, Proc. Linn. Soc. New South Wales 75:28.
Atalophlebia australasica; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:248, fig. 3-4, 33 (male, female, nymph).
Atalophlebia australasica; Harker, 1957b, Proc. Roy. Entomol. Soc. London (B)26:69.
Atalophlebia australasica; Suter & Bishop, 1980, p. 387 in Flannagan & Marshall, Advances in Ephemeroptera Biology.
Atalophlebia australasica; Campbell, 1986, Austr. J. Mar. Freshw. Res. 37:284.

Atalophlebia australasica (Pictet) (continued)

- Atalophlebia australasica*; Suter, 1986, 19:343, fig. 3-4, 7c-d, 14b (imago, nymph).
Atalophlebia australasica; Suter & Bishop, 1990, p. 85 in Campbell, Mayflies & Stoneflies.
Atalophlebia australasica; Campbell, 1988, Zool. Cat. Australia 6:17.
Atalophlebia australasica; Peters & Campbell, 1991, Ins. of Australia 1:291.

Distribution: South Australia, Victoria, New South Wales, Queensland.

Atalophlebia australis (Walker)

- Ephemera australis* Walker, 1853, List. Neur. Ins. Brit. Mus. 3:538 (male).
Leptophlebia australis; Eaton, 1871, Trans. Entomol. Soc. London 1871:78, pl. 4 fig 14, 14a-b (male).
Atalophlebia australis; Eaton, 1881a, Entomol. Mon. Mag. 17:194.
Atalophlebia australis; Eaton, 1884, Trans. Linn. Soc. London (2)3:86 (male).
Atalophlebia australis; Ulmer, 1908, Fauna Südwest-Australiens 2:40.
Atalophlebia australis; Ulmer, 1916, Arkiv f. Zool. 10:17.
Atalophlebia australis; Ulmer, 1920b, Stett. Entomol. Zeit. 81:115.
Atalophlebia australis; Tillyard, 1933b, Pap. Proc. Roy. Soc. Tasmania 1933:6, pl. 1 fig a, b, pl. 2 fig 1-20 (male, female, nymph).
Atalophlebia australis; Tillyard, 1936, Pap. Proc. Roy. Soc. Tasmania 1935:33.
Atalophlebia australis; Harker, 1950a, Proc. Linn. Soc. New South Wales 75:28.
Atalophlebia australis; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:265.
Atalophlebia australis; Penniket, 1961, New Zealand Entomol. 2:7.
Atalophlebia australis; Scholes, 1961, Fly-Fisher in Tasmania, p.23, fig. 7, pl. 1 (male, female, nymph).
Atalophlebia australis; Thorp & Lake, 1973, Int. Rev. Ges. Hydrobiol. 58:890.
Atalophlebia australis; Thorp & Lake, 1974, Austr. J. Mar. Freshw. Res. 25:98.
Atalophlebia australis; Campbell, 1978, Austr. J. Mar. Freshw. Res. 29:285.
Atalophlebia australis; Timms, 1978, Archiv f. Hydrobiol. 81:436.
Atalophlebia australis; Suter, 1979, Trans. Roy. Soc. South Australia 103: fig. 11 (nymph).
Atalophlebia australis; Williams, 1980, Australian Freshwater Life, 2nd ed., fig. 77.1 (nymph).
Atalophlebia australis; Norris *et al.*, 1982, Austr. J. Mar. Freshw. Res. 33:791.
Atalophlebia australis; Metzeling *et al.*, 1984, Occ. Pap. Mus. Victoria 1:44.
Atalophlebia australis; Marchant *et al.*, 1984b, Occ. Pap. Mus. Victoria 1:66.
Atalophlebia australis; Suter, 1986, Rec. S. Austr. Mus. 19:342, fig. 1-2, 7a, b, 14a (male, female, nymph).
Atalophlebia australis; Campbell, 1988, Zool. Cat. Australia 6:17.
Atalophlebia australis; Suter & Bishop, 1990, p. 88 in Campbell, Mayflies & Stoneflies.
Atalophlebia australis; Peters & Campbell, 1991, Ins. of Australia 1: fig. 16.15a (nymph).
Atalophlebia australis; Davis *et al.*, 1993, Austr. J. Mar. Freshw. Res. 44:488.

Distribution: Tasmania, South Australia, Victoria, Northern Territory.

Atalophlebia culleni (Etheridge & Olliff)

- Ephemera culleni* [partim] Etheridge & Olliff, 1890, Mem. Geol. Surv. New South Wales, Pal. 7:8, pl. 1 fig. 3-8 (nymph).
Ephemera culleni; Froggatt, 1907, Australian Insects p. 9.
 (Perlidae) *culleni*; Handlirsch, 1907, Handb. Paläontol. Zool. p. 896.
Atalophlebia culleni; Riek, 1954, Rec. Austr. Mus. 23:159, pl. 10 fig. 1-5 (nymph).
Atalophlebia culleni; Hubbard & Savage, 1981, J. Paleontol. 55:810.
Atalophlebia culleni; Hubbard, 1987, Fossilium Catalogus. I: Animalia 129:54.

Distribution: Upper Tertiary of New England (fossil).

Atalophlebia darrunga Harker

Atalophlebia darrunga Harker, 1957a, Proc. Roy. Entomol. Soc. London (B)26:65, fig. 11-22 (male, female, nymph).

Atalophlebia darrunga; Campbell, 1988, Zool. Cat. Australia 6:17.

Distribution: New South Wales.

Atalophlebia hudsoni Tillyard

Atalophlebia hudsoni Tillyard, 1936, Pap. Proc. Roy. Soc. Tasmania 1935:38, fig. 5, 9, pl. 1 fig. 9 (male).

Atalophlebia hudsoni; Harker, 1950a, Proc. Linn. Soc. New South Wales 75:28.

Atalophlebia hudsoni; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:265.

Atalophlebia hudsoni; Penniket, 1961, New Zealand Entomol. 2:7.

Atalophlebia hudsoni; Scholes, 1961, Fly-Fisher in Tasmania, p.28 (male).

Atalophlebia hudsoni; Campbell, 1988, Zool. Cat. Australia 6:17.

Distribution: Tasmania.

Atalophlebia ida Tillyard

Atalophlebia ida Tillyard, 1936, Pap. Proc. Roy. Entomol. Soc. Tasmania 1935:42, fig. 7, pl. 1 fig. 10 (male, female).

Atalophlebia ida; Harker, 1950a, Proc. Linn. Soc. New South Wales 75:28.

Atalophlebia ida; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:265.

Atalophlebia ida; Penniket, 1961, New Zealand Entomol. 2:10.

Massartellopsis ida; Scholes, 1961, Fly-Fisher in Tasmania, p.30, pl. 2 (male, female).

Atalophlebia ida; Campbell, 1988, Zool. Cat. Australia 6:17.

Distribution: Tasmania.

Atalophlebia incerta Harker

Atalophlebia incerta Harker, 1950a, Proc. Linn. Soc. New South Wales 75:13, fig. 4, 29, 44, 59, 67-71 (male, female, nymph, egg).

Atalophlebia incerta; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:265.

Atalophlebia incerta; Harker, 1957b, Proc. Roy. Entomol. Soc. London (B)26:69.

Atalophlebia incerta; Williams, 1968, Australian Freshwater Life: fig. 70.8 (nymph).

Atalophlebia incerta; Campbell, 1988, Zool. Cat. Australia 6:17.

Distribution: Tasmania, New South Wales.

Atalophlebia kala Harker

Atalophlebia kala Harker, 1954, Trans. Roy. Entomol. Soc. London 105:247, fig. 7-8, 36 (male, female).

Atalophlebia kala; Campbell, 1988, Zool. Cat. Australia 6:17.

Distribution: New South Wales.

Atalophlebia kokunia Harker

Atalophlebia kokunia Harker, 1954, Trans. Roy. Entomol. Soc. London 105:244, fig. 5-6, 13 (male).

Atalophlebia kokunia; Campbell, 1988, Zool. Cat. Australia 6:18.

Distribution: Queensland.

Atalophlebia longicaudata Harker

Atalophlebia longicaudata Harker, 1950a, Proc. Linn. Soc. New South Wales 75:9, fig. 7, 20, 36, 38-39, 63 (male, female, egg).

Atalophlebia longicaudata; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:249, fig. 20-32 (nymph).

Atalophlebia longicaudata; Harker, 1957b, Proc. Roy. Entomol. Soc. London (B)26:69.

Atalophlebia longicaudata; Williams, 1980, Australian Freshwater Life, 2nd ed., fig. 77.3 (nymph).

Atalophlebia longicaudata; Malipatil & Blyth, 1982, Rep. Nat. Mus. Victoria 1:68.

Atalophlebia longicaudata; Campbell, 1988, Zool. Cat. Australia 6:18.

Distribution: Tasmania, New South Wales.

Atalophlebia maculosa Harker

Atalophlebia maculosa Harker, 1950a, Proc. Linn. Soc. New South Wales 75:13, fig. 5, 22, 43, 53 (male).

Atalophlebia maculosa; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:249, fig. 14-19 (nymph).

Atalophlebia maculosa; Harker, 1957b, Proc. Roy. Entomol. Soc. London (B)26:69.

Atalophlebia maculosa; Campbell, 1988, Zool. Cat. Australia 6:18.

Distribution: New South Wales.

Atalophlebia marowana Harker

Atalophlebia marowana Harker, 1950a, Proc. Linn. Soc. New South Wales 75:12, fig. 8, 51, 61 (male, female).

Atalophlebia marowana; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:265.

Atalophlebia marowana; Campbell, 1988, Zool. Cat. Australia 6:18.

Distribution: New South Wales.

Atalophlebia miunga Harker

Atalophlebia miunga; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:246, fig. 9-10, 35 (male).

Atalophlebia miunga; Campbell, 1988, Zool. Cat. Australia 6:18.

Distribution: New South Wales.

Atalophlebia pallida Tillyard

Atalophlebia superba var. *pallida* Tillyard, 1936, Pap. Proc. Roy. Soc. Tasmania 1935:38 (adult).

Atalophlebia superba var. *pallida*; Harker, 1950a, Proc. Linn. Soc. New South Wales 75:28.

Distribution: Tasmania.

Atalophlebia pierda Harker

Atalophlebia pierda Harker, 1954, Trans. Roy. Entomol Soc. London 105:246, fig. 11-13, 37 (male, female).

Atalophlebia pierda; Harker, 1957a, Proc. Roy. Entomol Soc. London (B)26:68, fig. 23-29 (nymph).

Atalophlebia pierda; Harker, 1957b, Proc. Roy. Entomol Soc. London (B)26:69.

Atalophlebia pierda; Campbell, 1988, Zool. Cat. Australia 6:18.

Distribution: New South Wales.

Atalophlebia superba Tillyard

Atalophlebia superba Tillyard, 1936, Pap. Proc. Roy. Soc. Tasmania 1935:33, fig. 4, 11, 17, pl. 1 fig. 5-6 (male, female, nymph).

Atalophlebia superba; Harker, 1950a, Proc. Linn. Soc. New South Wales 75:28.

Atalophlebia superba; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:265.

Atalophlebia superba; Harker, 1957b, Proc. Roy. Entomol Soc. London (B)26:69.

Atalophlebia superba; Penniket, 1961, New Zealand Entomol. 2:7.

Atalophlebia superba; Scholes, 1961, Fly-Fisher in Tasmania, p.27, pl. 1 (male, female).

Atalophlebia superba; Campbell, 1988, Zool. Cat. Australia 6:18.

Distribution: Tasmania.

Atalophlebia tuhla Harker

Atalophlebia tuhla Harker, 1954, Trans. Roy. Entomol. Soc. London 105:247, fig. 1-2, 34 (male).

Atalophlebia tuhla; Campbell, 1988, Zool. Cat. Australia 6:18.

Distribution: New South Wales.

Atalophlebia sp. A Ulmer

"*Atalophlebia* Nympe A" Ulmer, 1908, Fauna Südwest-Australiens 2:45, fig. 35-40 (nymph).

Distribution: Western Australia.

Atalophlebia sp. B Ulmer

"*Atalophlebia* Nympe B" Ulmer, 1908, Fauna Südwest-Australiens 2:45, fig. 41-44 (nymph).

Distribution: Western Australia.

Atalophlebioides Phillips

Deleatidium (*Atalophlebioides*) Phillips, 1930, Trans. New Zealand Inst. 61:336. Type-species: *Deleatidium cromwelli* Phillips, subsequent designation by Peters & Edmunds, 1964:238.

Atalophlebioides; Ulmer, 1938, Arb. Morph. Taxon. Entomol. 5:104.

Atalophlebioides; Peters & Edmunds, 1964, Trans. Roy. Entomol. Soc. London 116:238 (designation of type-species).

Atalophlebioides; Towns & Peters, 1978, New Zealand J. Zool. 5:607.

Note. The Australian species presently included in *Atalophlebioides* probably do not belong to that genus which is apparently endemic to New Zealand (Towns & Peters, 1978). For want of better placement they are left in this genus in this paper in anticipation of further systematic revisions.

Atalophlebioides annulatus (Harkér)

Deleatidium annulatum Harker, 1950a, Proc. Linn. Soc. New South Wales 75:19, fig. 10, 24, 32, 56 (male, egg).

Deleatidium (*Atalophlebioides*) *annulatum*; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:255 (nymph).

Atalophlebioides annulatum; Peters & Edmunds, 1964, Trans. Roy. Entomol. Soc. London 116:238.

Atalophlebioides annulatum; Campbell, 1988, Zool. Cat. Australia 6:18.

Distribution: New South Wales.

Atalophlebioides bundutus (Harker)

Deleatidium (*Atalophlebioides*) *bundutum* Harker, 1954, Trans. Roy. Entomol. Soc. London 105:256, fig. 39, 49-50, 53-57 (male, nymph).

Atalophlebioides bundutum; Peters & Edmunds, 1964, Trans. Roy. Entomol. Soc. London 116:238.

Atalophlebioides bundutum; Campbell, 1988, Zool. Cat. Australia 6:19.

Distribution: New South Wales.

Atalophlebioides crassus (Harker)

Leptophlebia crassa Harker, 1950a, Proc. Linn. Soc. New South Wales 75:17, fig. 16, 25, 34, 60, 78-83 (male, female, nymph, egg).

Leptophlebia crassa Harker, 1950b, Proc. Roy. Entomol. Soc. London (A)25:112.

Deleatidium (*Atalophlebioides*) *crassa*; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:256.

Atalophlebioides crassa; Williams, 1968, Australian Freshwater Life: fig. 70.5 (nymph).

Atalophlebioides crassum; Campbell, 1988, Zool. Cat. Australia 6:19.

Distribution: Tasmania, New South Wales.

Austrophlebioides Campbell & Suter

Austrophlebioides Campbell & Suter, 1988, J. Austr. Entomol. Soc. 27:260. Type-species: *Deleatidium pusillum* Harker, original designation.

Austrophlebioides pusillus (Harker)

- Deleatidium pusillum* Harker, 1954, Trans. Roy. Entomol. Soc. London 105:253, fig. 51-52 (male, female).
Atalophlebioides pusillum; Metzeling *et al.*, 1984, Occ. Pap. Mus. Victoria 1:44.
Atalophlebioides pusillum; Marchant *et al.*, 1984b, Occ. Pap. Mus. Victoria 1:66.
Deleatidium pusillum; Campbell, 1988, Zool. Cat. Australia 6:19.
Austrophlebioides pusillus; Campbell & Suter, 1988, J. Austr. Entomol. Soc. 27:261, fig. 1-21, 82 (male, female, nymph, egg).
Austrophlebioides pusillus; Campbell, 1990, fig. 3 in Campbell, Mayflies & Stoneflies (nymph).
Austrophlebioides pusillus; Campbell *et al.*, 1990, p. 82 in Campbell, Mayflies & Stoneflies.
Austrophlebioides pusillus; Marchant *et al.*, 1994, Austr. J. Mar. Freshw. Res. 45:955.

Distribution: New South Wales, Victoria.

Austrophlebioides unguicularis (Ulmer)

- Euphyurus unguicularis* Ulmer, 1916, Ark. Zool. 10(4):13, fig. 11-12 (male).
Deleatidium unguiculare; Ulmer, 1920b, Stett. Entomol. Zeit. 81:115.
Deleatidium unguicularis; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:265.
Deleatidium unguiculare; Campbell, 1988, Zool. Cat. Australia 6:19.
Austrophlebioides unguicularis; Campbell & Suter, 1988, J. Austr. Entomol. Soc. 27:260.

Distribution: Queensland.

Bibulmena Dean

- Bibulmena* Dean, 1987, Mem. Mus. Victoria 48:96 (Type-species: *Bibulmena kadjina* Dean, original designation).

Bibulmena kadjina Dean

- Leptophlebiidae sp. B; Bunn *et al.*, 1986, Freshw. Biolo. 16:76.
Bibulmena kadjina Dean, 1987, Mem. Mus. Victoria 48:97, fig. 23-42 (male, female, nymph).
Bibulmena kadjina; Bunn, 1988, Austr. J. Mar. Freshw. Res. 39:790.
Bibulmena kadjina; Campbell, 1988, Zool. Cat. Australia 6:19.

Distribution: Western Australia.

Deleatidium Eaton

- Deleatidium* Eaton, 1899, Trans. Entomol. Soc. London 1899:288. Type-species: *Deleatidium lillii* Eaton, monotypy.

Deleatidium decipiens Harker

- Deleatidium decipiens* Harker, 1954, Trans. Roy. Entomol. Soc. London 105:255, fig. 38, 47-48 (male, female).
Deleatidium decipiens; Campbell, 1988, Zool. Cat. Australia 6:19).

Distribution: New South Wales.

Deleatidium furciferum (Eaton)

Leptophlebia furcifer Eaton, 1871, Trans. Entomol. Soc. London 1871:79, pl. 4 fig. 16, 16a-b (male).

Atalophlebia furcifer; Eaton, 1884, Trans. Linn. Soc. London (2)3:87.

Atalophlebia furcifer; Ulmer, 1908, Fauna Südwest-Australiens 2:42, fig. 24-26 (male).

Atalophlebia furcifer; Ulmer, 1916, Ark. Zool. 10:17.

Deleatidium furcifer; Ulmer, 1920b, Stett. Entomol. Zeit. 81:115.

Deleatidium furcifer; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:265.

Deleatidium furciferum; Campbell, 1988, Zool. Cat. Australia 6:19.

Distribution: Victoria, Western Australia.

Deleatidium nanatum Harker

Deleatidium nanatum Harker, 1954, Trans. Roy. Entomol. Soc. London 105:255, fig. 44-46 (male).

Deleatidium nanatum; Campbell, 1988, Zool. Cat. Australia 6:19.

Distribution: New South Wales.

Deleatidium strigatum (Eaton)

Leptophlebia strigata Eaton, 1871, Trans. Entomol. Soc. London 1871:80, pl. 4 fig 19 (female).

Atalophlebia strigata; Eaton, 1884, Trans. Linn. Soc. London (2)3:88, pl. 10 fig. 16d (female).

Atalophlebia strigata; Ulmer, 1908, Fauna Südwest-Australiens 2:41.

Euphyurus bicornis Ulmer, 1916, Ark. f. Zool. 10:15, fig. 13-14 (male).

Atalophlebia strigata; Ulmer, 1916, Ark. Zool. 10:17.

Deleatidium strigatum; Ulmer, 1920b, Stett. Entomol. Zeit. 81:115.

Deleatidium strigata; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:265.

Deleatidium strigatum; Campbell, 1988, Zool. Cat. Australia 6:19.

Distribution: Queensland, Northern Australia.

Garinjuga Campbell & Suter

Garinjuga Campbell & Suter, 1988, J. Austr. Entomol. Soc. 27:262. Type-species:

Garinjuga maryannae Campbell & Suter, original designation.

Garinjuga maryannae Campbell & Suter

Garinjuga maryannae Campbell & Suter, 1988, J. Austr. Entomol. Soc. 27:264, fig. 22-49, 83 (male, female, nymph, egg).

Garinjuga maryannae; Peters & Campbell, 1991, Ins. of Australia 1: fig. 16.15e (nymph).

Distribution: New South Wales.

Jappa Harker

Jappa Harker, 1954, Trans. Roy. Entomol. Soc. London 105:257. Type-species: *Jappa kutera* Harker, original designation.

Jappa edmundsi Skedros & Polhemus

Jappa edmundsi Skedros & Polhemus, 1986, Pan-Pacific Entomol. 62:311, fig. 1 (nymph).
Jappa edmundsi; Campbell, 1988, Zool. Cat. Australia 6:20.
Jappa edmunds [sic]; Campbell, 1990, fig. 1 in Campbell, Mayflies & Stoneflies (nymph).

Distribution: Queensland.

Jappa kutera Harker

[specimen from Dumaresque Cr., Armidale] Harker, 1950a, Proc. Linn. Soc. New South Wales 75:3, fig. 97-101 (female, nymph).
Jappa kutera Harker, 1954, Trans. Roy. Entomol. Soc. London 105:257, fig. 64-65, 67-68 (male).
Jappa kutera; Skedros & Polhemus, 1986, Pan-Pacific Entomol. 62:311, fig. 2 (nymph).
Jappa kutera; Campbell, 1988, Zool. Cat. Australia 6:20.

Distribution: New South Wales, Queensland.

Jappa serrata Skedros & Polhemus

Jappa serrata Skedros & Polhemus, 1986, Pan-Pacific Entomol. 62:312, fig. 3 (nymph).
Jappa serrata; Campbell, 1988, Zool. Cat. Australia 6:20.

Distribution: Queensland.

Jappa tristis Harker

Jappa tristis Harker, 1954, Trans. Roy. Entomol. Soc. London 105:257, fig. 62-63, 66 (male, female).
Atalophlebioides tristis; Scholes, 1961, Fly-Fisher in Tasmania, p. 35 (male, female).
Jappa tristis; Campbell, 1988, Zool. Cat. Australia 6:20.
 Genus D sp. *tristis*; Dean & Cartwright, 1992, Occas. Pap. Mus. Victoria 5:75.

Distribution: Tasmania.

Kalbaybaria Campbell

Kalbaybaria Campbell, 1993, Aquatic Ins. 15:160. Type-species: *Kalbaybaria doantrangae* Campbell, original designation.

Kalbaybaria doantrangae Campbell

Kalbaybaria doantrangae Campbell, 1993, Aquatic Ins. 15:164, fig. 1-17 (male, female, nymph, egg).

Distribution: Queensland.

Kirrara Harker

Kirrara Harker, 1954, Trans. Roy. Entomol. Soc. London 105:259. Type-species: *Kirrara procera* Harker, original designation.
Kirrara; Campbell & Peters, 1986, Aquatic Ins. 8:72.

Kirrara algona Harker

Kirrara algona Harker, 1957b, Proc. Roy. Entomol. Soc. London (B)26:71, fig. 37-39 (female).

Kirrara algona; Campbell & Peters, 1986, Aquatic Ins. 8:71.

Kirrara algona; Campbell, 1988, Zool. Cat. Australia 6:20.

Distribution: New South Wales.

Note. This species probably does not belong to *Kirrara*, although its correct placement is still unresolved.

Kirrara amenia Harker

Kirrara amenia Harker, 1954, Trans. Roy. Entomol. Soc. London 105:260, fig. 42, 60-61 (male, female).

Kirrara amenia; Harker, 1957b, Proc. Roy. Entomol. Soc. London (B)26:71.

Kirrara amenia; Campbell & Peters, 1986, Aquatic Ins. 8:71.

Kirrara amenia; Campbell, 1988, Zool. Cat. Australia 6:20.

Distribution: New South Wales.

Note. This species probably does not belong to *Kirrara*, although its correct placement is still unresolved.

Kirrara procera Harker

Kirrara procera Harker, 1954, Trans. Roy. Entomol. Soc. London 105:259, fig. 43, 58-59 (male, female).

Kirrara amenia; Tsui & Peters, 1975, Trans. Amer. Entomol. Soc. 101:509 (nymph; misidentification).

Kirrara procera; Campbell & Holt, 1984, p. 299 in Landa *et al.*, Proc. 4th Int. Conf. Ephemeroptera.

Kirrara procera; Metzeling *et al.*, 1984, Occ. Pap. Mus. Victoria 1:44.

Kirrara procera; Campbell & Peters, 1986, Aquatic Ins. 8:78 (male, female, nymph, egg).

Kirrara procera; Campbell, 1986, Austr. J. Mar. Freshw. Res. 37:284.

Kirrara procera; Chessman, 1986, Austr. J. Mar. Freshw. Res. 37:136.

Kirrara procera; Chessman *et al.*, 1987, Reg. Riv. Res. Management 1:325.

Kirrara procera; Campbell, 1988, Zool. Cat. Australia 6:20.

Kirrara procera; Campbell, 1990, fig. 2 in Campbell, Mayflies & Stoneflies (nymph).

Kirrara procera; Peters & Campbell, 1991, Ins. of Australia 1: fig. 16.4b (egg).

Distribution: Victoria, New South Wales.

Koornonga Campbell & Suter

Koornonga Campbell & Suter, 1988, J. Austr. Entomol. Soc. 27:267. Type-species: *Leptophlebia inconspicua* Eaton, original designation.

Koornonga brunnea (Tillyard)

Atalophlebia brunnea Tillyard, 1936, Pap. Proc. Roy. Soc. Tasmania 1935:43, fig. 8, 14, 21 (male).

Atalophlebia brunnea; Harker, 1950a, Proc. Linn. Soc. New South Wales 75:28.

Atalonella brunnea; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:264.

Atalonella brunnea; Scholes, 1961, Fly-Fisher in Tasmania, p.34, pl. 2.

Koorrnonga brunnea (Tillyard) (continued)

Nousia brunnea; Campbell, 1988, Zool. Cat. Australia 6:21.

Koorrnonga brunnea; Campbell & Suter, 1988, J. Austr. Entomol. Soc. 27:268.

Distribution: Tasmania.

Koorrnonga fusca (Ulmer)

Thraululus dentatus [partim]; Ulmer, 1916, Ark. Zool. 10(4):7, fig. 7-8 (male, female).

Atalophlebia fusca Ulmer, 1920a, Archiv f. Naturg. 85A(11):20, fig. 13-14 (male, female).

Atalophlebia fusca; Ulmer, 1920b, Stett. Entomol. Zeit. 81:115.

Nousia fusca; Needham & Murphy, 1924, Bull. Lloyd Libr. 24, Entomol. Ser. 4:35 (nymph; mistakenly reported from Chile).

Nousia fusca; Navás, 1925, Rev. Chil. Hist. Nat. 29:310.

Atalophlebia fusca; Lestage, 1931b, Miss. Biol. Belge au Bresil 2:251.

Atalonella fusca; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:265.

Atalophlebia fusca; Demoulin, 1955b, Bull. Ann. Soc. Roy. Entomol. Belg. 91:227.

Nousia fusca; Suter, 1986, Rec. S. Austr. Mus. 19:347 (provisionally *Nousia*).

Atalophlebia fusca; Campbell, 1988, Zool. Cat. Australia 6:17.

Koorrnonga fusca; Campbell & Suter, 1988, J. Austr. Entomol. Soc. 27:268.

Distribution: Queensland.

Koorrnonga inconspicua (Eaton)

Leptophlebia inconspicua Eaton, 1871, Trans. Entomol. Soc. London 1871:79, pl. 4 fig. 17, 17a-b (male).

Atalophlebia inconspicua; Eaton, 1884, Trans. Linn. Soc. London (2)3:87 (male).

Atalophlebia inconspicua; Ulmer, 1908, Fauna Südwest-Australiens 2:43, fig. 27-30 (male).

Atalophlebia inconspicua; Ulmer, 1916, Ark. Zool. 10:17.

Atalophlebia inconspicua; Ulmer, 1920b, Stett. Entomol. Zeit. 81:115.

Atalophlebia inconspicua; Tillyard, 1936, Pap. Proc. Roy. Soc. Tasmania 1935:31.

Atalophlebia inconspicua; Harker, 1950a, Proc. Linn. Soc. New South Wales 75:28.

Atalophlebia inconspicua; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:265.

Atalonella inconspicua; Suter & Bishop, 1980, p. 387 in Flannagan & Marshall, Advances in Ephmeroptera Biology.

Nousia inconspicua; Suter, 1986, Rec. S. Austr. Mus. 19:347, fig. 8-9, 14d, 15a-b, 16a (SA; redescription of imago & nymph).

Atalophlebia inconspicua; Campbell, 1986, Austr. J. Mar. Freshw. Res. 37:284.

Nousia inconspicua; Campbell, 1988, Zool. Cat. Australia 6:21.

Koorrnonga inconspicua; Campbell & Suter, 1988, J. Austr. Entomol. Soc. 27:268, fig. 50-54, 56-68, 85.

Nousia inconspicua; Suter & Bishop, 1990, p. 88 in Campbell, Mayflies & Stoneflies.

Distribution: South Australia, Western Australia.

Koorrnonga parva (Harker)

Atalophlebia parva Harker, 1950a, Proc. Linn. Soc. New South Wales 75:14, fig. 1-2, 6, 21, 35, 45, 57, 72-77 (male, female, nymph, egg).

Atalonella parva; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:264.

Koorrnonga parva (Harker) (continued)

Atalonella parva; Williams, 1968, Australian Freshwater Life: fig. 70.6 (nymph).

Nousia parva; Campbell, 1988, Zool. Cat. Australia 6:21.

Koorrnonga parva; Campbell & Suter, 1988, J. Austr. Entomol. Soc. 27:268 (placement tentative).

Distribution: Tasmania, New South Wales.

Koorrnonga pilosa (Suter)

Nousia pilosa Suter, 1986, Rec. S. Austr. Mus. 19:350, fig. 12-13, 14f, 15e-f (male, nymph).

Nousia pilosa; Campbell, 1988, Zool. Cat. Australia 6:21.

Koorrnonga pilosa; Campbell & Suter, 1988, J. Austr. Entomol. Soc. 27:268, fig. 55, 69 (male, nymph).

Distribution: Victoria, South Australia.

Koorrnonga simillima (Ulmer)

Atalophlebia simillima Ulmer, 1920a, Archiv f. Naturges. 85A(11):16, fig. 10 (male).

Atalophlebia simillima; Ulmer, 1920b, Stett. Entomol. Zeit. 81:115.

Atalonella simillima; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:264.

Nousia simillima; Suter, 1986, Rec. S. Austr. Mus. 19:347 (provisionally *Nousia*).

Nousia simillima; Campbell, 1988, Zool. Cat. Australia 6:21.

Koorrnonga simillima; Campbell & Suter, 1988, J. Austr. Entomol. Soc. 27:268 (placement tentative).

Distribution: Queensland.

Neboissophlebia Dean

Neboissophlebia Dean, 1988, Proc. Roy. Soc. Victoria 100:39. Type-species:

Neboissophlebia hamulata Dean, original designation.

Neboissophlebia hamulata Dean

Neboissophlebia hamulata Dean, 1988, Proc. Roy. Soc. Victoria 100:40, fig. 1-25 (male, female, nymph).

Neboissophlebia hamulata; Marchant *et al.*, 1994, Austr. J. Mar. Freshw. Res. 45:955.

Distribution: Victoria, New South Wales.

Neboissophlebia occidentalis Dean

Leptophlebiidae sp. A, Bunn *et al.*, 1986, Freshw. Biol. 16:89.

Neboissophlebia occidentalis Dean, 1988, Proc. Roy. Soc. Victoria 100:43, fig. 26-32 (male, female, nymph).

Neboissophlebia occidentalis; Bunn, 1988, Austr. J. Mar. Freshw. Res. 39:792.

Distribution: Western Australia, Victoria.

Nousia Navás

- Nousia* Navás, 1918, Bol. Soc. Aragon. Cienc. Nat. 17:213. Type-species: *Nousia delicata* Navás, original designation.
Atalonella Needham & Murphy, 1924, Bull. Lloyd Libr. 24:35. Type-species: *Atalonella ophis* Needham & Murphy, subsequent designation by Peters & Edmunds, 1972:1411.
Atalonella; Navás, 1925, Rev. Chil. Hist. Nat. 29:308.
Atalonella; Peters & Edmunds, 1972, Ann. Entomol. Soc. America 65:1411 [designation of type-species].
Nousia; Pescador & Peters, 1985, J. Kansas Entomol. Soc. 58:91.
Nousia; Suter, 1986, Rec. S. Austr. Mus. 19:347.
Nousia; Campbell & Suter, 1988, J. Austr. Entomol. Soc. 27:270.

Nousia (Australonousia) Campbell & Suter

- Nousia (Australonousia)* Campbell & Suter, 1988, J. Austr. Entomol. Soc. 27:270. Type-species: *Atalophlebia fuscula* Tillyard, original designation.

Nousia (Australonousia) darkara (Harker)

- Atalonella darkara* Harker, 1957b, Proc. Roy. Entomol. Soc. London (B)26:69, fig. 30-36 (female, nymph).
Atalonella darkara; Scholes, 1961, Fly-Fisher in Tasmania, p.35.
Nousia darkara; Campbell, 1988, Zool. Cat. Australia 6:21.

Distribution: Tasmania.

Nousia (Australonousia) delicatula (Tillyard)

- Atalophlebia delicatula* Tillyard, 1936, Pap. Proc. Roy. Soc. Tasmania 1935:47, fig. 10, 16, 23 (male, female).
Atalonella delicatula; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:264.
Atalophlebia delicatula; Harker, 1950a, Proc. Linn. Soc. New South Wales 75:28.
Atalonella delicatula; Scholes, 1961, Fly-Fisher in Tasmania, p.33, pl. 2 (male, female).
Nousia delicatula; Campbell, 1988, Zool. Cat. Australia 6:21.
Nousia (Australonousia) delicatula; Campbell & Suter, 1988, J. Austr. Entomol. Soc. 27:272.

Distribution: Tasmania.

Nousia (Australonousia) fuscula (Tillyard)

- Atalophlebia fuscula* Tillyard, 1936, Pap. Proc. Roy. Soc. Tasmania 1935:44, fig. 9, 15, 19, 22 (male, female, nymph).
Atalophlebia fuscula; Harker, 1950a, Proc. Linn. Soc. New South Wales 75:28.
Atalonella fuscula; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:264.
Atalonella fuscula; Scholes, 1961, Fly-Fisher in Tasmania, p.31, pl. 2 (male, female).
Nousia fuscula; Suter, 1986, Rec. S. Austr. Mus. 19:348, fig. 10-11, 14e, 15c-d, 16b (male, female, nymph, egg).
Nousia fuscula; Campbell, 1988, Zool. Cat. Australia 6:21.

Nousia (Australonousia) fuscula (Tillyard) (continued)

Nousia (Australonousia) fuscula; Campbell & Suter, 1988, J. Austr. Entomol. Soc. 27:272, fig. 70-81, 84 (male, nymph, egg).

Nousia fuscula; Suter & Bishop, 1990, p. 90 in Campbell, Mayflies & Stoneflies.

Distribution: Tasmania, South Australia, Victoria, New South Wales.

Nyungara Dean

Nyungara Dean, 1987, Mem. Mus. Victoria 48:91. Type-species: *Nyungara bunni* Dean, original designation.

Nyungara bunni Dean

Leptophlebiidae species C; Bunn *et al.*, 1986, Freshw. Biol. 16:89.

Nyungara bunni Dean, 1987, Mem. Mus. Victoria 48:93, fig. 1-9, 12-22 (male, female, nymph).

Nyungara bunni; Bunn, 1988, Austr. J. Mar. Freshw. Res. 39:792.

Nyungara bunni; Campbell, 1988, Zool. Cat. Australia 6:21.

Distribution: Western Australia, South Australia.

Nyungara ellitasha Dean

Nyungara ellitasha Dean, 1987, Mem. Mus. Victoria 48:93, fig. 10-11 (male, female).

Nyungara ellitasha; Campbell, 1988, Zool. Cat. Australia 6:21.

Distribution: Western Australia.

Thraulophlebia Demoulin

Thraulophlebia Demoulin, 1955b, Bull. Ann. Soc. Roy. Entomol. Belg. 91:227. Type-species: *Atalophlebia lucida* Ulmer, original designation.

Thraulophlebia lucida (Ulmer)

Thraululus dentatus [partim]; Ulmer, 1916, Ark. Zool. 10(4):7, fig. 7-8 (male, female).

Atalophlebia lucida Ulmer, 1920a, Archiv f. Naturges. 85A(11):18, fig. 11-12 (male).

Atalophlebia lucida; Ulmer, 1920b, Stett. Entomol. Zeit. 81:115.

Atalonella lucida; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:264.

Thraulophlebia lucida; Demoulin, 1955b, Bull. Ann. Soc. Roy. Entomol. Belg. 91:227.

Thraulophlebia lucida; Campbell, 1988, Zool. Cat. Australia 6:22.

Distribution: Queensland.

Ulmerophlebia Demoulin

Ulmerophlebia Demoulin, 1955b, Bull. Ann. Soc. Roy. Entomol. Belg. 91:228. Type-species: *Euphyurus mjobergi* Ulmer, original designation.

Ulmerophlebia mjobergi (Ulmer)

Euphyurus mjobergi Ulmer, 1916, Ark. Zool. 10(4):10, fig. 9-10 (male, female).
Deleatidium mjobergi; Ulmer, 1920b, Stett. Entomol. Zeit. 81:115.
Deleatidium mjobergi; Harker, 1954, Trans. Roy. Entomol. Soc. London 105:265.
Ulmerophlebia mjobergi; Demoulin, 1955b, Bull. Ann. Soc. Roy. Entomol. Belg. 91:228.
Ulmerophlebia mjobergi; Campbell, 1988, Zool. Cat. Australia 6:22.

Distribution: Queensland.

Ulmerophlebia pipinna Suter

Ulmerophlebia pipinna Suter, 1986, Rec. S. Austr. Mus. 19(17):352, fig. 17-18, 19a-b, 20 (male, nymph).
Ulmerophlebia pipinna; Campbell, 1988, Zool. Cat. Australia 6:22.
Ulmerophlebia pipinna; Marchant *et al.*, 1994, Austr. J. Mar. Freshw. Res. 45:955.

Distribution: Victoria, South Australia.

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