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A CATALOGUE OF THE EPHEMEROPTERA OF THE INDIAN SUBREGION

Michael D. Hubbard and William L. Peters

ABSTRACT. All species of Ephemeroptera reported from the Indian Subregion of the Oriental Region are included in a catalogue along with pertinent references. A bibliography of literature on the mayflies of the Indian Subregion is included. *Ephemerella brunnea* is proposed as a new name for *Ephemerella striata* Ali, 1970 (preoccupied) and the genus *Eatonia* Ali, 1970 is synonymized with *Isonychia* Eaton, 1871.

INTRODUCTION

This catalogue lists all Ephemeroptera originally described from or subsequently found in the Indian Subregion of the Oriental Region. The Indian Subregion is defined to include the areas contained within the Republic of India, Sri Lanka, Pakistan, Nepal, Sikkim, Bhutan, Bangla Desh, and Burma. A comprehensive discussion on the ecology and biogeography of the Indian Subregion is given by Mani (1974).

Few Ephemeroptera, or mayflies, have been described or recorded from the Indian Subregion and those species given herein must represent only a small percentage of the entire fauna. The first species described from the Indian Subregion was *Palingenia indica* [= *Ephoron indicus*] by Pictet (1843). Since then mayflies were either described or recorded sporadically when collections became available. Few revisionary works have been published which treat the genera of the Indian Subregion and keys to the Indian species are non-existent. The genera in the subregion are an assemblage of Oriental, Palaearctic, or more widespread genera. Most species are known from only one to a few localities and their relationships are mostly unknown.

An excellent key to the nymphs of all families and subfamilies of Ephemeroptera is given by Edmunds, Allen and Peters (1963). No key exists to the adults of all families and subfamilies of Ephemeroptera. However, the key provided by Edmunds, Jensen and Berner (1976) to the families and subfamilies of North and Central America is useful to key some Indian mayfly adults (not nymphs!) when used with caution. All families occurring in the Indian Subregion are keyed in Edmunds, Jensen and Berner (1976), except Palingeniidae and Prosopistomatidae. Palingeniidae are keyed by Ulmer (1939-1940), while a discussion of the adults of Prosopistomatidae is given by Gillies (1954). As noted herein, the species *dodecus* Dubey does not belong to *Ichthybotus*, but correct placement is yet to be determined. *Ichthybotus* is probably confined to New Zealand according to McCafferty (1973b).

Key to the mayfly genera occurring in the Indian Subregion cannot be made until more revisionary studies are completed and many generic limits are

redefined. The following notes are given to help determine Indian genera based on present knowledge. All genera of the Baetidae except *Baetiella* and *Procloeon* are keyed and illustrated by Ulmer (1939-1940). References to *Baetiella* include Uéno (1931) and Uéno (1955) while references to *Procloeon* include Ulmer (1932-1933) and Macan (1961). No keys exist for all genera and subgenera of Asiatic Ephemerellidae. Keys to several genera are given by Ulmer (1939-1940). The North American subgenera of *Ephemerella* are keyed in Edmunds, Jensen and Berner (1976). No keys exist for the genera and subgenera of Asiatic Ephemeridae. References to *Eatonigenia* include McCafferty (1973a), while references to the subgenera of *Ephemera* include McCafferty and Edmunds (1973). All genera of the Heptageniidae are keyed and illustrated by Jensen (1972); however, as the work is an unpublished Ph.D. thesis any taxonomic changes or new records are not reflected in this catalogue. All genera of the Eastern Hemisphere Leptophlebiidae are keyed and illustrated in Peters and Edmunds (1970). All genera of the Palingeniidae are keyed by Demoulin (1965). Polymitarcyidae are keyed and illustrated by Ulmer (1939-1940), while the nymph of *Ephoron* is described and illustrated by Eaton (1883-1888) as *Polymitarcys* and the nymph of *Povilla* is described and illustrated by Ulmer (1939-1940). No key exists to the Asiatic genera of the Potamanthidae; however, nymph and adults of *Rhoenanthus* are described and illustrated by Ulmer (1939-1940) and the nymphs and adults of *Potamanthus* are described and illustrated by Eaton (1883-1888). No key exists for the Asiatic genera of the Siphlonuridae; however, the nymphs and adults of *Isonychia* are described and illustrated by Ulmer (1939-1940) while the nymphs and adults of *Ameletus* are described and illustrated by Landa (1969). The remaining families are represented in the Indian Subregion by only one genus. Description and illustrations of the nymphs and adults of these genera can be found in one or more of the following: Ulmer (1939-1940), Eaton (1883-1888), Landa (1969), Grandi (1960), Edmunds, Jensen and Berner (1976), Needham, Traver and Hsu (1935), and Burks (1953).

The taxonomic placement of the species in this catalogue is, in many cases, based solely upon the descriptions and figures in the published literature as specimens were not always available for study and the placement of some of these species may change as our knowledge of the fauna of the Indian Subregion increases.

ARRANGEMENT

The species included in this catalogue are arranged alphabetically within a hierarchical system. The species are arranged alphabetically within the genus or subgenus. Genera are arranged alphabetically within the family or subfamily. Families are also arranged in an alphabetical order.

For each genus or subgenus are listed the reference to the original description, the type-species, and the method of designation of the type-species. Also listed are any synonyms along with their types and method of designation. Pertinent taxonomic references to the genus may also be given.

Following the first listing of each species is an indication of its geographical distribution as given in the literature. For localities in India the present day names of the states are mentioned in parenthesis. For each species are listed as many references as possible to that species (some minor references in which the species is merely mentioned are not included), and annotations to those references concerning the stage, sex, and presence of descriptions, figures, and keys. For the reference to the original description of each nominal species we have included where known the stage, sex, type locality, and, in parentheses, the present location of the type specimen or specimens.

ABBREVIATIONS AND SYMBOLS

♂	male imago or subimago is stage referred to in reference.
♀	female imago or subimago is stage referred to in reference.
nym	nymph is stage referred to in reference.
egg	egg is stage referred to in reference.
fig.	a figure of the species is included in reference.
des.	a description of the species is included in reference.
key	the species is contained in a key.

NOMENCLATURE

Because of the great need for stability and consensus in the system of nomenclature used by zoologists, we have attempted to adhere strictly to the rules and recommendations of the International Code of Zoological Nomenclature (1964 edition; including amendments by the XVII International Congress of Zoology, Monaco, 1972, published 1974, *Bull. Zool. Nomencl.* 31:77-101). In particular, notice should be taken that we have returned to the original spelling of some names as required by the amended Article 32.

TYPE LOCATIONS

Following the type locality of each species is an indication (in parentheses) of the present location of the type where it is known. We have not seen some of these types and their stated locations may have been inferred from statements in the literature. The following abbreviations are used to indicate the location of types.

AGRA — Agra University, St. John's College, Agra, India.

BMNH — British Museum (Natural History), London.

CAL. ACAD. — California Academy of Sciences, San Francisco.

FAMU — Laboratory of Aquatic Entomology, Florida A & M University, Tallahassee.

GENOVA— Museo Civico di Storia Naturale di Genova.

HAMBURG— Zoologisches Staatsinstitut und Zoologisches Museum, Hamburg.

LUND — Zoological Institute, Lund.

MCZ — Museum of Comparative Zoology, Harvard University, Cambridge, Massachusetts.

OXFORD — Oxford University Museum.

TRAVER — Jay R Traver Collection (now at Department of Biology, University of Utah, Salt Lake City).

UTAH — Department of Biology, University of Utah, Salt Lake City.

WIEN — Zoologisches Institut der Universität Wien.

ZSI — Zoological Survey of India, Calcutta.

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FAMILY BAETIDAE

Genus *Baetiella* Uéno

Baetiella Uéno, 1931, *Annot. Zool. Jap.*, **13** : 220.

Type : *Acentrella japonica* Imanishi. Original designation.

Genus *Baetiella ladakae* Traver. India (Kashmir).

Baetiella ladakae Traver, 1939, *Ann. Mag. Nat. Hist.*, (11) **4** : 50.

♂. des., fig. Type : ♂, Igu Ladakh (TRAVER).

Genus *Baetis* Leach

Baetis Leach, 1815, *Brewster's Edinburgh Encyclop.*, **9** : 137.

Type : *Ephemera fuscata* Linnaeus. Subsequent designation by Intern. Comm. Zool. Nomencl., 1966, *Bull. Zool. Nomencl.*, **23** : 209.

Brachyphlebia Westwood, 1840, *Introd. Class. Ins.* **2** : 25.

Type : *Ephemera fuscata* Linnaeus (as *Ephemera bioculata* Linnaeus sensu Westwood). Monotypy.

Acentrella Bengtsson, 1912, *Ent. Tidskr.*, **33** : 110.

Type : *Acentrella lapponica* Bengtsson. Monotypy.

TAXONOMY : Eaton, 1885, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, **3** : 156.

Müller-Liebenau, 1969, *Gewässer und Abwässer*, **48/49** : 1.

Genus *Baetis acuticostalis* Dubey. India (Himachal Pradesh).

Baetis acuticostalis Dubey, 1971, *Oriental Ins.*, **5** : 533. ♂, ♀. des., fig. Type : ♂, River Solang, N.W. Himalaya (ZSI).

Genus *Baetis bifurcatus* Kapur & Kripalani. India (Himachal Pradesh).

Baetis bifurcatus Kapur & Kripalani, 1963, *Rec. Indiān Mus.*, **59** : 196.

♂. des., fig., key. Type : ♂, 2 mi S of Ralha, Kulu Valley, N.W. Himalaya (ZSI).

Baetis chandra Kapur & Kripalani. India (Himachal Pradesh).

Baetis chandra Kapur & Kripalani, 1963, *Rec. Indian Mus.*, **59** : 189.

♂, ♀. des., fig., key. Type : ♂, Chhatoru, Lahaul-Spiti Valley, N.W. Himalaya (ZSI).

Baetis consuetus (Hagen). Sri Lanka.

Cloe consuetus Hagen, 1858, *Verh. Bot. Zool. Ges. Wien*, **8** : 477. ♂, ♀. des.

Type : Rainbodde (MCZ).

Baetis consuetus : Eaton, 1871, *Trans. Ent. Soc. London*, **1871** : 131.

Baetis consuetus : Eaton, 1885, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, **3** : 172. ♂, ♀. des.

Baetis consuetus : Fernando, 1965, *Bull. Freshwater Fish. Res. Sta. Ceylon*, **17** : 187.

Baetis dipsicus Gillies. India (Maharashtra).

Baetis dipsicus Gillies, 1949, *Trans. R. Ent. Soc. London*, **100** : 163. ♂, ♀. des., fig. Type: ♂, River Mutha above Poona (BMNH).

Baetis dipsicus : Kapur & Kripalani, 1963, *Rec. Indian Mus.*, **59** : 188. key.

Baetis dipsicus : Kimmins, 1971, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, **25** : 313.

Baetis feminalis Eaton. Sri Lanka.

Baetis feminalis Eaton, 1885, *Trans. Linn. Soc. London*, (Ser.2) *Zool.*, **3** : 171. ♂, ♀. des. Type : Rainbodde (MCZ).

Baetis feminalis : Kimmins, 1960, *Bull. Brit. Mus. (Nat. Hist.)*, **9** : 288.

Baetis feminalis : Fernando, 1965, *Bull. Freshwater Fish. Res. Sta. Ceylon*, **17** : 187.

Baetis festivus Kapur & Kripalani. India (Himachal Pradesh).

Baetis festivus Kapur & Kripalani, 1963, *Rec. Indian Mus.*, **59** : 197. ♀. des., fig., key. Type : ♀, 2 mi S of Ralha, Kulu Valley, N.W. Himalaya (ZSI).

Baetis fluitans Gillies. India (Maharashtra).

Baetis fluitans Gillies, 1949, *Trans. R. Ent. Soc. London*, **100** : 166. ♂, ♀. des., fig. Type : ♂, River Mutha above Poona (BMNH).

Baetis fluitans : Kapur & Kripalani, 1963, *Rec. Indian Mus.*, **59** : 188. key.

Baetis fluitans : Kimmins, 1971, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, **25** : 314.

Baetis himalayana Kapur & Kripalani. India (Himachal Pradesh).

Baetis himalayana Kapur & Kripalani, 1963, *Rec. Indian Mus.*, **59** : 194. ♂. ♀. des., fig., key. Type : ♂, Sissu, Lahaul Valley, N.W. Himalaya (ZSI).

Baetis himalayana : Dubey, 1971, *Oriental Ins.*, **5** : 535.

Baetis lahaulensis Kaul & Dubey. India (Himachal Pradesh).

Baetis lahaulensis Kaul & Dubey, 1970, *Oriental Ins.*, **4** : 147. ♂, ♀. nym. des , fig. Type : ♂, Gramphu, N.W. Himalaya (AGRA).

Baetis lahaulensis : Dubey, 1971, *Oriental Ins.*, **5** : 539.

Baetis longistylus Kaul & Dubey. India (Himachal Pradesh).

Baetis longistylus Kaul & Dubey, 1970, *Oriental Ins.*, 4 : 143. ♂, ♀. des., fig.

Type : ♂, Gramphu, N.W. Himalaya (AGRA).

Baetis longistylus : Dubey, 1970, *Oriental Ins.*, 4 : 300.

Baetis macanis Ali. Pakistan.

Baetis macanis Ali, 1967, *Pakistan J. Sci.*, 19 : 78. nym. des., fig. Type : Rawalpindi, Pakistan.

Baetis macani : Ali, 1970, *Pakistan J. Sci.*, 22 : 124. (lapsus)

Baetis macani : Ali, 1971, *Pakistan J. Sci.*, 23 : 214. (emendation) [non *Baetis macani* Kimmins, 1957, *Notul. Ent.*, 37 : 27].

Baetis meeheanis Ali. Pakistan.

Baetis meeheanis Ali, 1967, *Pakistan J. Sci.*, 19 : 80. nym. des., fig. Type : Rawalpindi Dist., Pakistan.

Baetis meeheanis : Ali, 1967, *Pakistan J. Sci.*, 19 : 80. (lapsus)

Baetis meeheani Ali, 1970, *Pakistan J. Sci.*, 22 : 124. (emendation)

Baetis meeheani : Ali, 1971, *Pakistan J. Sci.*, 23 : 214.

Baetis palmyrae Gillies. India (Maharashtra).

Baetis palmyrae Gillies, 1949, *Trans. R. Ent. Soc. London*, 100 : 164. ♂, ♀. des., fig. Type : ♂, River Mutha above Poona (BMNH).

Baetis palmyrae : Kapur & Kripalani, 1963, *Rec. Indian Mus.*, 59 : 188. key.

Baetis palmyrae : Kimmins, 1971, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, 25 : 318.

Baetis punjabensis Kapur & Kripalani. India (Himachal Pradesh).

Baetis punjabensis Kapur & Kripalani, 1963, *Rec. Indian Mus.*, 59 : 192. ♂. des., fig., key. Type : ♂, 2 mi S of Ralha, Kulu Valley, N.W. Himalaya (ZSI).

Baetis septemmenes Dubey. India (Himachal Pradesh).

Baetis septemmenes Dubey, 1971, *Oriental Ins.*, 5 : 537. ♂. des., fig. Type : ♂, River Solang, N.W. Himalaya (ZSI).

Baetis seragruis Dubey. India (Himachal Pradesh).

Baetis seragruis Dubey, 1970, *Oriental Ins.*, 4 : 299. ♀. des., fig. Type: Seragru Icefall, Kutinal, N.W. Himalaya.

Baetis simplex Kapur & Kripalani. India (Himachal Pradesh).

Baetis simplex Kapur & Kripalani, 1963, *Rec. Indian Mus.*, 59 : 191, 206. ♀, nym. des., fig., key. Type : ♀, Kothi, Kulu Valley, N.W. Himalaya (ZSI).

Baetis solangensis Dubey. India (Himachal Pradesh).

Baetis solangensis Dubey, 1971, *Oriental Ins.*, 5 : 537. ♂. des., fig. Type : ♂, River Solang, N.W. Himalaya (ZSI).

Baetis solidus (Hagen). Sri Lanka.

Cloe solidus Hagen, 1858, *Verh. Bot. Zool. Ges. Wien*, **8** : 477. ♀. des. Type : Rainbodde (MCZ).

Baetis solidus : Eaton, 1885, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, **3** : 172. ♂ des.,

Baetis solidus : Fernando, 1965, *Bull. Freshwater Fish. Res. Sta. Ceylon*, **17** : 187.

Baetis solitarius Gillies. India (W. Bengal).

Baetis solitarius Gillies, 1949, *Trans. R. Ent. Soc. London*, **100** : 170. ♂. des., fig. Type : ♂, Mirik, N. Bengal (BMNH).

Baetis solitarius : Kapur & Kripalani, 1963, *Rec. Indian Mus.*, **59** : 188. key.

Baetis thurbonis Gillies. India (W. Bengal).

Baetis thurbonis Gillies, 1949, *Trans. R. Ent. Soc. London*, **100** : 168. ♂. des., fig. Type : ♂, Thurbo Tea Estate, Mirik, N. Bengal (BMNH).

Baetis thurbonis : Kapur & Kripalani, 1963, *Rec. Indian Mus.*, **59** : 163. key.

Baetis thurbonis : Kimmings, 1971, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, **25** : 321.

Baetis tigroides Gillies. India (W. Bengal).

Baetis tigroides Gillies, 1949, *Trans. R. Ent. Soc. London*, **100** : 167. ♂, ♀. des., fig. Type : ♂, round Mirik, N. Bengal (BMNH).

Baetis tigroides : Kapur & Kripalani, 1963, *Rec. Indian Mus.*, **59** : 189. key.

Baetis tigroides : Kimmings, 1971, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, **25** : 321.

Genus **Centroptilum** Eaton

Centroptilum Eaton, 1869, *Ent. Monthly Mag.*, **6** : 132.

Type : *Ephemera luteola* Müller. Original designation.

Centroptilum campestre Gillies. India (Madhya Pradesh).

Centroptilum campestre Gillies, 1949, *Trans. R. Ent. Soc. London*, **100** : 172. ♂. des., fig. Type : ♂, River Sonar, near Saugor, Central Provinces (BMNH).

Genus **Cloeon** Leach

Cloeon Leach, 1815, *Brewster's Edinburgh Encyclop.*, **9** : 137.

Type : *Ephemera diptera* Linnaeus. Monotypy.

Cloe Burmeister, 1839, *Handb. Ent.*, **2** (2) : 799. (emendation)

Type : *Ephemera diptera* Linnaeus. Objective synonymy.

Cloeopsis Eaton, 1866, *Ann. Mag. Nat. Hist.*, (3) **18** : 146.

Type : *Ephemera diptera* Linnaeus. Monotypy.

Neocloeon Traver, 1932, *J. New York Ent. Soc.*, **40** : 365.

Type : *Neocloeon alamance* Traver. Original designation.

Astroclaeon Barnard, 1940, *Ann. S. Afr. Mus.*, **32** : 616.

Type : *Cloeon africanum* Esben-Petersen. Original designation.

TAXONOMY : Eaton, 1885, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, **3** : 179.

Cloeon apicatum Navás. Pakistan

Cloeon apicatum Navás, 1931, *Rev. Acad. Cien. Zaragoza*, **15**: 21. ♂. des., fig.
Type : ♂, Quetta, N. India (Now Pakistan).

[non *Cloeon apicatum* Navás. 1933, *Mus. Heude Notes Ent. Chin.*, **1** (9) : 17.
(= *Cloeon navasi* van Bruggen).]

Cloeon bengalense Kimmins. India (W. Bengal).

Cloeon bengalense Kimmins, 1947, *Proc. R. Ent. Soc. London*, (B)**16** : 95. ♂,
♀. des., fig. Type : ♀, Calcutta, Bengal (BMNH).

Cloeon bicolor Kimmins. India (W. Bengal, Madhya Pradesh, Karnataka).
Singapore. Thailand. Malaysia?

Cloeon bicolor Kimmins, 1947, *Proc. R. Ent. Soc. London*, (B)**16** : 97. ♂, ♀.
des., fig. Type : ♀, Calcutta, Bengal (BMNH).

Cloeon bicolor : Gillies, 1949, *Trans. R. Ent. Soc. London*, **100** : 173.

Cloeon gillican Ali. Pakistan.

Cloeon gillican Ali, 1967, *Pakistan J. Sci.*, **19** : 81. nym. des., fig.

Type : Rawalpindi Dist., Pakistan.

Cloeon gilliesi Ali, 1970, *Pakistan J. Sci.*, **22** : 124. (emendation).

Cloeon gilliesi : Ali, 1971, *Pakistan J. Sci.*, **23** : 214.

Cloeon inscriptum Bengtsson. India (Nurba Valley, Srinagar). Europe.

Cloeon inscriptum Bengtsson, 1914, *Ent. Tidskr.*, **35** : 215. ♂, ♀ nym. des.,
fig. Type : skåne bis Wermland [SWEDEN].

Cloeon inscriptum : Lestage, 1928, *Bull. Ann. Soc. Ent. Belg.*, **68** : 258.

Cloeon inscriptum : Lestage, 1931, *Bull. Ann. Soc. Ent. Belg.*, **71** : 87.

Cloeon inscriptum : Tiensuu, 1935, *Suomen Hyönteistieteellinen Aikakaus-
kirja*, **1**:17.

Cloeon inscriptum : Ulmer, 1935, *Visser, Karakorum*, **1** : 232.

Cloeon inscriptum : Tshernova, 1936, *Trav. Inst. Zool. Acad. Sci. URSS*, **3** : 92.

Cloeon inscriptum : Tiensuu, 1939, *Ann. Ent. Fenn.*, **5** : 115.

Cloeon dipterum [partim]: Landa, 1969, *Fauna CSSR, Jepice*, p.130.

Cloeon inscriptum : Jacob, 1973, *Folia Ent. Hung. (Ser. Nova) Supp.* **26** : 92.

Cloeon inscriptum : Jacob, 1974, *Ent. Nachr.*, **18** : 3.

Cloeon inscriptum : Sowa, 1975, *Ent. Scand.*, **6** : 215-223. ♂, ♀, nym. des., fig.

Cloeon karachiensis Ali. Pakistan.

Cloeon karachiensis Ali, 1970, *Pakistan J. Sci.*, **22** : 122. ♂, ♀. des., fig.

Type : [Karachi].

Cloeon kashmiri Traver. India (Kashmir).

Cloeon kashmiri Traver, 1939, *Ann. Mag. Nat. Hist.*, (11)**4**: 53. ♂, ♀. des.,
fig. Type : ♂, between Srinagar and Shadipur (TRAVER).

Cloeon kimminsi Hubbard. India (W. Bengal, W. Ghats?). Malaysia?

Cloeon viridis Kimmins, 1947, *Proc. R. Ent. Soc. London*, (B) 16 : 98. ♀. des.
Type : ♀, Calcutta, Bengal (BMNH). Name preoccupied by Schneider,
1885.

Cloeon kimminsi Hubbard, 1974, *J. Kansas Ent. Soc.*, 47 : 353.

Cloeon marginale (Hagen). India (W. Bengal, Maharashtra). Bangla Desh.
Sri Lanka. Simalur. Java. Sumatra. Philippines. Taiwan. Tonkin. China.

Cloe marginalis Hagen, 1858, *Verh. Bot. Zool. Ges. Wien*, 8 : 477. ♀. des.
Type : Rainbodde (MCZ).

Cloe marginalis : Hagen, 1859, *Verh. Bot. Zool. Ges. Wien*, 9 : 206. ♀. des.

Cloeon marginale : Eaton, 1855, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*,
3 : 181. ♂, ♀. des.

Chloeon marginata : Needham, 1909, *Rec. Indian Mus.* 3 : 191.

Cloeon marginale : Ulmer, 1912, *Ent. Mitteil.*, 1 : 369.

Cloeon marginale : Ulmer, 1913, *Notes Leyden Mus.*, 35 : 115.

Cloeon marginale : Lestage, 1918, *Rev. Zool. Afr.*, 6 : 102.

Cloeon marginale : Lestage, 1921, *Ann. Soc. Ent. Belg.*, 61 : 221.

Cloeon marginale : Lestage, 1924, *Fauna Ent. Indochin. France.*, 1924 : 92.

Cloeon marginalis : Chopra, 1924, *Rec. Indian Mus.* 26 : 419. ♀. des., fig.

Cloeon marginale : Ulmer, 1924, *Treubia*, 6 : 56. ♂, ♀. des., fig., key.

Cloeon marginale : Lestage, 1928, *Ins. Samoa*, 7(2) : 49.

Cloeon marginale : Lestage, 1929, *Ann. Soc. Ent. France*, 98 : 99. key.

Cloeon marginale : Navás, 1931, *Rev. Acad. Cien. Zaragoza*, 15 : 21.

Cloeon marginale : Wu, 1935, *Cat. Ins. Sin.*, 1 : 250.

Cloeon marginale : Ulmer, 1939, *Archiv. Hydrobiol. (Supp.)* 16 : 531.

Cloeon marginale : Fernando, 1965, *Bull. Freshwater Fish. Res. Sta. Ceylon*,
17 : 187.

Cloeon pulchellum Banks. India (Bihar).

Cloeon pulchella Banks, 1913, *Proc. Ent. Soc. Wash.*, 15 : 137. ♂. ♀. des.
Type : Chapra, Bengal (Now Bihar.)

Cloeon pulchellum : Ulmer, 1924, *Treubia*, 6 : 65. key.

Cloeon pulchellum : Lestage, 1928, *Ins. Samoa*, 7 (2) : 49.

Cloeon pulchella : Lestage, 1929, *Ann. Soc. Ent. France*, 98 : 100. key.

Cloeon pulchellum : van Bruggen, 1957, *Nova Guinea*, (N.S.) 8 : 37.

Cloeon siccum Gillies. India (Madhya Pradesh).

Cloeon siccum Gillies, 1949, *Trans. R. Ent. Soc. London*, 100 : 174. ♀. des.
Type : ♂, Branch of River Sonar, Saugor-Damoh Rd at milestone 12,
Central Provinces (BMNH).

Cloeon siccum : van Bruggen, 1957, *Nova Guinea*, (N.S.) 8 : 37.

Cloeon siccum : Kimmmins, 1971, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, 25 : 320.

Cloeon taeniatum Navás. India (Madhya Pradesh).

Cloeon taeniatum Navás, 1931, *Rev. Acad. Cien. Zaragoza*, **15** : 21. ♀. des.

Type : Bandra, Bombay.

Cloeon taeniolatum : Kimmins, 1947, *Proc. R. Ent. Soc. London*, (B) **16** : 98.

Cloeon taeniatum : van Bruggen, 1957, *Nova Guinea*, (N.S.) **8** : 37.

Cloeon variegatum Chopra. India (W. Bengal).

Cloeon variegatum Chopra, 1924, *Rec. Indian Mus.*, **26** : 420. ♂, ♀. des., fig.

Type: Barkuda [W. Bengal] (ZSI).

Cloeon variegatum: Lestage, 1928, *Ins. Samoa*, **7** (2) : 49.

Cloeon variegatum: Lestage, 1929, *Ann. Soc. Ent. France*, **98** : 100. key.

Cloeon variegatum: van Bruggen, 1957, *Nova Guinea*, (N.S.) **8** : 37.

Genus **Procloeon** Bengtsson

Pseudocloeon Bengtsson, 1914, *Ent. Tidskr.*, **35** : 218.

Type: *Cloeon bifidum* Bengtsson. Original designation. Name preoccupied by Klapálek, 1905.

Procloeon Bengtsson, 1915, *Ent. Tidskr.*, **36** : 34.

Type: *Cloeon bifidum* Bengtsson. Objective synonymy.

TAXONOMY: Sowa, 1975, *Ent. Scand.*, **6** : 107.

Procloeon bimaculatum (Eaton). India. Sri Lanka. Burma. Tonkin. Java. Sumatra. Thailand. China. Philippines. Bangla Desh.

Cloeon bimaculatum Eaton, 1885, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, **3** : 182. ♂, ♀. des., fig. Type : ♀, Ceylon (BMNH).

Cloeon bimaculatum: Klapálek, 1905, *Mitt. Nat. Mus. Hamburg*, **22** : 106.

Chloeon bimaculatum: Needham, 1909, *Rec. Indian Mus.* **3** : 191. ♂, ♀. des., fig.

Cloeon bimaculatum: Ulmer, 1913, *Notes Leyden Mus.*, **35** : 113. ♀. des., fig.

Cloeon bimaculatum: Lestage, 1921, *Ann. Soc. Ent. Belg.*, **61** : 219. ♂, ♀. des.

Cloeon bimaculatum: Lestage, 1924, *Fauna Ent. Indochin. Franc.*, **1924** : 90. ♂, ♀. des.

Cloeon bimaculatum: Ulmer, 1924, *Treubia*, **6** : 60. ♂, ♀. des., fig., key.

Cloeon bimaculatum: Navás, 1926, *Broteria*, **23** : 101.

Cloeon bimaculatum: Lestage, 1928, *Ins. Samoa*, **7** (2) : 49.

Cloeon bimaculatum: Lestage, 1929, *Ann. Soc. Ent. France*, **98** : 99. key.

Cloeon bimaculatum: Navás, 1931, *Rev. Acad. Cien. Zaragoza*, **15** : 21.

Cloeon bimaculatum: Wu, 1935, *Cat. Ins. Sin.*, **1** : 250.

Cloeon bimaculatum: Ulmer, 1939, *Archiv Hydrobiol.*, (Supp.) **16** : 532.

Cloeon bimaculatum: Ulmer, 1940, *Archiv Hydrobiol.*, (Supp.) **16** : 650. nym. des., fig.

Procloeon bimaculatum: Kimmins, 1947, *Proc. R. Ent. Soc. London*, (B) **16** : 92. ♂, ♀. des., fig., designation of lectotype.

Procloeon bimaculatum: Gillies, 1949, *Trans. R. Ent. Soc. London*, **100** : 176.

Procloeon bimaculatum: Kimmins, 1960, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, **9** : 292. ♂. fig.

Procloeon bimaculatum: Fernando, 1965, *Bull. Freshwater Fish. Res. Sta. Ceylon*, **17** : 187.

Procloeon debilis (Walker). India.

Cloeon debilis Walker, 1860, *Trans. Ent. Soc. London*, (2) 5 : 199. des. Type : ♀, "Hindustan" (BMNH).

Baetis debilis : Eaton, 1871, *Trans. Ent. Soc. London*, 1871 : 14, 112. designation of lectotype.

Baetis : Eaton, 1884, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, 3 : 171. ♀. des.

Procloeon debilis : Kimmins, 1960, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, 9 : 293.

Procloeon harveyi Kimmins. India (W. Bengal, Bhopal, Madhya Pradesh, Poona, Maharashtra). Thailand. Malaya. Hong Kong.

Procloeon harveyi Kimmins, 1947, *Proc. R. Ent. Soc. London*, (B) 16 : 94. ♂, ♀. des., fig. Type : ♀, Calcutta, Bengal (BMNH).

Procloeon harveyi : Gillies, 1949, *Trans. R. Ent. Soc. London*, 100 : 176.

Genus Pseudocloeon Klapálek

Psuedocloeon Klapálek, 1905, *Mitt. Nat. Mus. Hamburg*, 22 : 105.

Type: *Pseudocloeon kraepelini* Klapálek. Monotypy.

[non *Pseudocloeon* Bengtsson, 1914, *Ent. Tidskr.*, 35 : 218.]

[non *Pseudocloeon* Matsumura, 1931, 6000 *Ill. Ins. Jap. Emp.*, p. 1473.]

Pseudocloeon inopinum Gillies. India (W. Bengal).

Pseudocloeon inopinum Gillies, 1949, *Trans. R. Ent. Soc. London*, 100 : 171. ♂. des., fig. Type : ♂, Mirik, N. Bengal (BMNH).

Pseudocloeon inopinum : Kimmins, 1971, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, 25 : 315.

Pseudocloeon rubellum Navás. India (Maharashtra).

Pseudocloeon rubellum Navás, 1931, *Rev. Acad. Cien. Zaragoza*, 15 : 22. ♀. des., fig. Type : Khandala, Bombay.

Pseudocloeon rubellum: Gillies, 1949, *Trans. R. Ent. Soc. London*, 100 : 171.

FAMILY CAENIDAE**Genus Caenis Stephens**

Caenis Stephens, 1835, *Illus. Brit. Ent., Mandib.*, 6 : 60. Type : *Caenis macrura* Stephens. Subsequent designation by Eaton, 1868.

Oxycypha Burmeister, 1839, *Handb. Ent.*, 2 : 797.

Type : *Oxycypha luctuosa* Burmeister. Subsequent designation by Jacob, 1974
Ordella Campion, 1923, *Ann. Mag. Nat. Hist.*, (9) 11 : 518.

Type: *Caenis macrura* Stephens. Original designation.

TAXONOMY: Eaton, 1868, *Ent. Monthly Mag.*, 5 : 82.

Eaton, 1884, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, 3 : 141.

Thew, 1960, *Trans. Amer. Ent. Soc.*, 86 : 200.

Jacob, 1974, *Reichenbachia*, 15 : 94.

***Caenis kimmensis* Ali. Pakistan.**

Caenis kimmensis Ali, 1967, *Pakistan J. Sci.*, **19** : 84. nym. des., fig.

Type: Rawalpindi Dist., Pakistan.

Caenis kimmensi Ali, 1970, *Pakistan J. Sci.*, **22** : 124. (emendation)

Caenis kimmensi Ali, 1971, *Pakistan J. Sci.*, **23** : 214.

***Caenis nigrostriata* Navás. India (Maharashtra).**

Caenis nigrostriata Navás, 1931, *Rev. Acad. Cien. Zaragoza*, **15** : 20. ♀. des.

Type: ♀, Bandra, Bombay.

Caenis nigrostriata: van Bruggen, 1954, *Zool. Mededel.*, **33** (2) : 13. ♀. des.

***Caenis perpusilla* Walker. India (Barkuda, W. Bengal). Bangla Desh. Sri Lanka.**

Caenis perpusilla Walker, 1853, *List. Neuropt. Ins. Brit. Mus.*, p.585. des.

Type : ♂, Ceylon (BMNH).

Caenis perpusilla: Hagen, 1858, *Verh. Bot. Zool. Ges. Wien*, **8** : 477. des.

Caenis perpusilla: Eaton, 1871, *Trans. Ent. Soc. London*, 1871 : 96. ♂. des.

Caenis perpusilla : Eaton, 1884, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, **3** : 147. ♂. des.

Caenis perpusilla: Needham, 1909, *Rec. Indian Mus.*, **3** : 191. ♂. des., fig.

Caenis perpusilla: Chopra, 1924, *Rec. Indian Mus.*, **26** : 418. ♀. des.

Caenis perpusilla: van Bruggen, 1954, *Zool. Mededel.*, **33** (2) : 13. ♀. des.

Caenis perpusilla: Kimmins, 1960, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, **9** : 305.

Caenis perpusilla: Fernando, 1965, *Bull. Freshwater Fish. Res. Sta. Ceylon*, **17** : 187.

***Caenis picea* Kimmins. India (W. Bengal).**

Caenis picea Kimmins, 1947, *Proc. R. Ent. Soc. London*, (B) **16** : 99. ♂, ♀. des., fig. Type: ♂, Calcutta, Bengal (BMNH).

Caenis picea: van Bruggen, 1954, *Zool. Mededel.*, **33** (2) : 13. des.

***Caenis piscina* Kimmins. India (W. Bengal).**

Caenis piscina Kimmins, 1947, *Proc. R. Ent. Soc. London*, (B) **16** : 99. ♂, ♀. des., fig. Type: ♂, Calcutta, Bengal (BMNH).

Caenis piscina: van Bruggen, 1954, *Zool. Mededel.*, **33** (2) : 13. ♀. des.

***Caenis srinagari* Traver. India (Kashmir).**

Caenis srinagari Traver, 1939, *Ann. Mag. Nat. Hist.*, (11) **4** : 48, ♂, ♀. des., fig. Type: ♂, Gabirbal, Srinagar (Traver).

Caenis srinagari: van Bruggen, 1954, *Zool. Mededel.*, **33** (2) : 13. des.

FAMILY EPHEMERELLIDAE

SUBFAMILY EPHEMERELLINAE

Genus **Ephemerella** Walsh

Ephemerella Walsh, 1863, *Proc. Acad. Nat. Sci. Philadelphia*, **1862** : 377.

Type : *Ephemerella excrucians* Walsh. Subsequent designation by Eaton, 1884.

TAXONOMY : Eaton, 1884, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, **3** : 126.
 Edmunds, 1953, *Bull. Brooklyn Ent. Soc.*, **48** : 71.
 Allen, 1971, *Canad. Ent.*, **103** : 512.

Subgenus **Acerella** Allen

Ephemerella (Acerella) Allen, 1971, *Canad. Ent.*, **103** : 517.

Type : *Ephemerella longicaudata* Uéno. Original designation.

Ephemerella (Acerella) uenoi Allen & Edmunds. Nepal.

Ephemerella sp. Ueno, 1955, *Fauna Flora Nepal Himal.*, **1** : 302. nym. des., fig.

Ephemerella (Drunella) uenoi Allen & Edmunds, 1963, *Pacific Ins.*, **5** : 18. nym. des. Type : nym., between Batar Bazar and a ford of Tadi Khola, Nepal.

Ephemerella (Acerella) undatella Allen, 1971, *Canad. Ent.*, **103** : 521. nym. des. Type : nym., near Nawakot between Batar Bazar and Tadi Khola, Nepal.

Ephemerella (Acerella) uenoi : Allen, 1973, *Canad. Ent.*, **105** : 527.

Subgenus **Crinitella** Allen & Edmunds.

Ephemerella (Crinitella) Allen & Edmunds, 1963, *Pacific Ins.*, **5** : 17.

Type : *Ephemerella (Crinitella) coheri* Allen & Edmunds. Original designation.

Ephemerella (Crinitella) coheri Allen & Edmunds. Nepal.

Ephemerella (Crinitella) coheri Allen & Edmunds, 1963, *Pacific Ins.*, **5** : 17. nym. des. Type : nym., Pelung, Nepal (UTAH).

Ephemerella (Crinitella) nasiri Ali. Pakistan.

Ephemerella nasiri Ali, 1971, *Pakistan J. Forestry*, **21** : 360. nym. des., fig.

Type : Poonch River Trib., Kotli, Azad Kashmir.

Ephemerella (Crinitella) swatensis Ali. Pakistan.

Ephemerella swatensis Ali, 1971, *Pakistan J. Sci.*, **23** : 211. nym. des., fig.

Type: Swat.

Ephemerella swatensis : Ali, 1971, *Pakistan J. Forestry*, **21** : 360.

Ephemerella (Crinitella) wahensis Ali. Pakistan.

Ephemerella wahensis Ali, 1971, *Pakistan J. Forestry*, **21** : 359. nym. des., fig.

Type : Wah Streams, Kotli, Azad Kashmir.

Subgenus **Drunella** Needham

Drunella Needham, 1905, *New York State Mus. Bull.*, **86** : 42.

Type : *Ephemerella grandis* Eaton. Monotypy.

Ephemerella (Drunella) : Needham, 1927, *Ann. Ent. Soc. Amer.*, **20** : 108.

Ephemerella (Eatonella) Needham, 1927, *Ann. Ent. Soc. Amer.*, **20** : 108.

Type : *Ephemerella doddsi* Needham. Monotypy.

Ephemerella (Drunella) gilliesi Allen & Edmunds. Nepal.

Ephemerella (Drunella) gilliesi Allen & Edmunds, 1963, *Pacific Ins.*, 5 :
nym. des. Type : nym., Choban Gorge, Katmandu, Nepal (UTAH).

Ephemerella (Drunella) traverae Allen & Edmunds. India (Kashmir).

Ephemerella (Drunella) traverae Allen & Edmunds, 1963, *Pacific Ins.*, 5 : 20.
nym. des., fig. Type : nym., E of Nurla, Kashmir, India (TRAVER).

Subgenus **Torleya** Lestage

Torleya Lestage, 1917, *Ann. Biol. Lacust.*, 8 : 366.

Type : *Torleya belgica* Lestage. Monotypy.

Epheremella (Torleya) : Needham, 1927, *Ann. Ent. Soc. Amer.*, 20 : 107.

Ephemerella (Torleya) nepalica Allen & Edmunds. Nepal.

Ephemerella (Torleya) nepalica Allen & Edmunds, 1963, *Pacific Ins.*, 5 : 20.
nym. des., fig. Type : nym., Pelung, Nepal (UTAH).

Subgenus **Incertis**

Ephemerella indica Kapur & Kripalani. India (Himachal Pradesh).

Ephemerella indica Kapur & Kripalani, 1963, *Rec. Indian Mus.*, 59 : 186. ♀.
des., fig. Type : ♀, Ralha, Kulu Valley, N.W. Himalaya (ZSI).

SUBFAMILY TELOGANODINAE

Genus **Teloganodes** Eaton

Teloganodes Eaton, 1882, *Ent. Monthly Mag.*, 18 : 208.

Type : *Cloe tristis* Hagen. Original designation.

Teloganodes dentata Navás. India (Maharashtra).

Teloganodes dentata Navás, 1931, *Rev. Acad. Cien. Zaragoza*, 15 : 19. ♂.
des., fig. Type : Khandala, Bombay.

Teloganodes major Eaton. Sri Lanka.

Teloganodes major Eaton, 1884, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, 3 :
136. ♀. des. Type : ♀, Rainbodde, Ceylon (BMNH).

Teloganodes major : Kimmins, 1960, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, 9 :
304. designation of lectotype.

Teloganodes major : Fernando, 1965, *Bull. Freshwater Fish. Res. Sta. Ceylon*,
17 : 187.

Teloganodes tristis (Hagen). Sri Lanka. Java. Sumatra. Philippines.

Cloe tristis Hagen, 1858, *Verh. Bot. Zool. Ges. Wien*, 8 : 476. ♀. des. Type :
Rainbodde (MCZ).

Leptophlebia tristis : Hagen, 1873, *Trans. Ent. Soc.*, 1873 : 394.

Teloganodes tristis : Eaton, 1882, *Ent. Monthly Mag.*, 18 : 208.

Teloganodes tristis : Eaton, 1884, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*,
3 : 135. ♀. fig., des.

Teloganodes tristis : Ulmer, 1924, *Treubia*, 6 : 44. ♂, ♀. des., fig.

Teloganodes tristis : Ulmer, 1939, *Archiv Hydrobiol.*, (Supp.) **16** : 512.

♂, ♀. des., fig.

Teloganodes tristis : Ulmer, 1940, *Archiv Hydrobiol.*, (Supp.) **16** : 627. nym.
des., fig.

FAMILY EPHEMERIDAE

Genus *Eatonigenia* Ulmer

Eatonigenia Ulmer, 1939, *Archiv Hydrobiol.*, (Supp.) **16** : 477.

Type : *Hexagenia chaperi* Navas. Original designation.

TAXONOMY : McCafferty, 1973, *Oriental Ins.*, **7** : 51.

Eatonigenia indica (Chopra). India (Orissa).

Hexagenia indica Chopra, 1924, *Rec. Indian Mus.*, **26** : 416. ♀. des., fig.

Type : ♀, Chilka Lake (ZSI).

Hexagenia indica : Hafiz, 1937, *Rec. Indian Mus.*, **39** : 369.

Hexagenia indica : Ulmer, 1939, *Archiv Hydrobiol.*, (Supp.) **16** : 478.

Hexagenia indica : Spieth, 1941, *Amer. Midl. Nat.*, **26** : 235.

Eatonigenia indica : McCafferty, 1973, *Oriental Ins.*, **7** : 57.

Eatonigenia trirama McCafferty. India (Tamil Nadu).

Eatonigenia trirama McCafferty, 1973, *Oriental Ins.*, **7** : 59. nym. des., fig.

Type : Madras Prov., Bhavani Riv. (UTAH).

Genus *Ephemera* Linnaeus

Ephemera Linnaeus, 1758, *Syst. Nat.*, p. 546.

Type : *Ephemera vulgata* Linnaeus. Subsequent designation by Eaton,
1868.

Nirvius Navás, 1922, *Bol. Soc. Ent. Esp.*, **7** : 56.

Type : *Nirvius punctatus* Navás. Original designation.

Afromera Demoulin, 1955, *Bull. Ann. Soc. R. Ent. Belg.*, **91** : 292.

Type : *Afromera congolana* Demoulin. Original designation.

TAXONOMY : Eaton, 1868, *Ent. Monthly Mag.*, **5** : 85.

Eaton, 1883, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, **3** : 58.

McCafferty & Edmunds, 1973, *Pan-Pac. Ent.*, **49** : 300.

Subgenus *Ephemera* Linnaeus

Ephemera (*Ephemera*) *annandalei* Chopra. India (Meghalaya, Mysore, Karnataka,
Rewa, M.P., Sind). Burma.

Ephemera annandalei Chopra, 1937, in Hafiz, *Rec. Indian Mus.*, **39** : 360.
♂, ♀, des., fig. Type : Shillong, Assam (Now Meghalaya) (ZSI).

Ephemera annandalei : Dubey, 1971, *Oriental Ins.*, **5** : 529.

Ephemera (*Ephemera*) *brunnea*, NOMEN NOVUM. Pakistan.

Ephemera striatus Ali, 1970, *Pakistan J. Sci.*, **22** : 120. ♂. des., fig.
Type : ♂, Abbottabad, Pakistan. Name preoccupied by Linnaeus, 1767.

Ephemera (Ephemera) consors Eaton. India (Himachal Pradesh, Sikkim).

Ephemera consors Eaton, 1892, *J. R. Asiatic Soc. Bengal*, **60** : 412.

♂, ♀. des. Type : Kulu or Sikkim (ZSI).

Ephemera consors : Ulmer, 1920, *Stettin. Ent. Z.*, **81** : 109.

Ephemera consors : Lestage, 1927, *Ann. Soc. Ent. France*, **96** : 99. key.

Ephemera consors : Hafiz, 1937, *Rec. Indian Mus.*, **39** : 368.

Ephemera consors : Kimmins, 1960, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, **9** : 307.

Ephemera (Ephemera) diffusa Chopra. India (Tamil Nadu).

Ephemera diffusa Chopra, 1937, in Hafiz, *Rec. Indian Mus.*, **39** : 355.

♂, ♀. des., fig. Type : Bhavani, Coimbatore (ZSI).

Ephemera (Ephemera) exspectans (Walker). India ("Hindustan," Bihar, Kumaon Hills, U.P. Mysore, Karnataka). Burma.

Potamanthus exspectans Walker, 1860, *Trans. Ent. Soc. London*, (2) **5** : 198. des. Type : ♀, Hindustan (BMNH).

Ephemera exspectans : Eaton, 1871, *Trans. Ent. Soc. London*, **1871** : 74. ♀. des.

Ephemera expectans : Eaton, 1883, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, **3** : 72. ♀. des.

Ephemera vedana Banks, 1913, *Proc. Ent. Soc. Wash.*, **15** : 137. des. Type : Chapra, Bengal (Now Bihar).

Ephemera vedans : Ulmer, 1920, *Stettin. Ent. Z.*, **81** : 109.

Ephemera exspectans : Ulmer, 1920, *Stettin. Ent. Z.*, **81** : 109.

Ephemera expectans : Lestage, 1927, *Ann. Soc. Ent. France*, **96** : 95. key.

Ephemera vedana : Lestage, 1927, *Ann. Soc. Ent. France*, **96** : 97.

Ephemera expectans : Hafiz, 1937, *Rec. Indian Mus.*, **39** : 366.

Ephemera exspectans : Kimmins, 1960, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, **9** : 308.

Ephemera (Ephemera) fulvata Navás. India (Maharashtra).

Ephemera fulvata Navás, 1935, *Broteria*, **31** : 100. ♂, ♀. des., fig.

Type : Lonawla, near Khandala.

Ephemera (Ephemera) immaculata Eaton. India (Madhya Pradesh,? Bangalore, Karnataka).

Ephemera immaculata Eaton, 1871, *Trans. Ent. Soc. London*, **1871** : 74. ♂. des., fig. Type : ♂, Cuna [lapsus for Guna, Gwalior?] (OXFORD).

Ephemera immaculata : Eaton, 1883, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, **3** : 72. ♂. des.

Ephemera immaculata : Ulmer, 1920, *Stettin. Ent. Z.*, **81** : 109.

Ephemera immaculata : Lestage, 1927, *Ann. Ent. Soc. France*, **96** : 95. key.

Ephemera immaculata : Hafiz, 1937, *Rec. Indian Mus.*, **39** : 363. ♂. des., fig.

Ephemera immaculata : Kimmins, 1960, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, **9** : 308.

Ephemera (Ephemera) pramodi Dubey. Nepal.

Ephemera pramodi Dubey, 1971, *Oriental Ins.*, **5** : 525. ♂, ♀. des., fig. Type : ♂, Pokhra, Nepal (ZSI).

Ephemera (Ephemera) pulcherrima Eaton. India. Burma. China. Hong Kong.

Ephemera pulcherrima Eaton, 1892, *Trans. Ent. Soc. London*, **1892** : 185. ♀. des. Type : ♀, Tenasserim Valley, Burma (BMNH).

Ephemera pulcherrima : Ulmer, 1925, *Archiv Naturges.*, **91A** : 86.

Ephemera pulcherrima : Lestage, 1927, *Ann. Ent. Soc. France*, **96** : 99. key.

Ephemera pulcherrima : Wu, 1935, *Cat. Ins. Sin.*, **1** : 248.

Ephemera pulcherrima : Ulmer, 1935-6, *Peking Nat. Hist. Bull.*, **10** : 204.

Ephemera pulcherrima : Hsu, 1936, *Hong Kong Nat.*, **7** : 233. ♀. des., fig.

Ephemera pulcherrima : Hsu, 1936-7, *Peking Nat. Hist. Bull.*, **11** : 433. ♂, ♀. des., fig.

Ephemera pulcherrima : Hafiz, 1937, *Rec. Indian Mus.*, **39** : 368.

Ephemera pulcherrima : Kimmins, 1960, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, **9** : 308.

Ephemera (Ephemera) remensa Eaton. India (Himachal Pradesh, Mussorie (U.P.)).

Ephemera remensa Eaton, 1892, *J. R. Asiatic Soc. Bengal*, **60** : 410. ♂, ♀. des. Type : ♂, Kulu (ZSI).

Ephemera remensa : Lestage, 1927, *Ann. Soc. Ent. France*, **96** : 96. key.

Ephemera remensa : Hafiz, 1937, *Rec. Indian Mus.*, **39** : 368.

Ephemera remensa : Kimmins, 1960, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, **9** : 308.

Ephemera (Ephemera) soanica Ali. Pakistan.

Ephemera soanica Ali, 1967, *Pakistan J. Sci.*, **19** : 75. nym. des.

Type : Rawalpindi Dist., Pakistan.

Ephemera scanesis : Ali, 1970, *Pakistan J. Sci.*, **22** : 124. (lapsus).

Ephemera soanensis Ali, 1971, *Pakistan J. Sci.*, **23** : 214. (emendation).

Ephemera (Ephemera) supposita Eaton. India (Palni Hills, Kerala, Taliparamba). Sri Lanka. Taiwan.

Potamanthus fasciatus [partim] Hagen, 1858, *Verh. Bot. Zool. Ges. Wien*, **8** : 476. [non Kimminsula fasciata (Hagen)].

Ephemera fasciata : Eaton, 1871, *Trans. Ent. Soc. London*, **1871** : 74. ♂. des.

Ephemera supposita Eaton, 1883, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, **3** : 72. ♂, ♀. des. Type : Ceylon (MCZ).

Ephemera supposita : Eaton, 1892, *J. R. Asiatic Soc. Bengal*, **60** : 409. ♂. des.

Ephemera supposita : Ulmer, 1912, *Ent. Mitteil.*, **1** : 369.

Ephemera supposita : Lestage, 1927, *Ann. Ent. Soc. France*, **96** : 97. key.

Ephemera supposita : Hafiz, 1937, *Rec. Indian Mus.*, **39** : 366. ♂, ♀. des., fig.

Ephemera supposita : Kimmins, 1960, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, **9** : 309.

Ephemera supposita : Fernando, 1965, *Bull. Freshwater Fish. Res. Sta. Ceylon*, **17** : 186.

Subgenus *Aethephemera* McCafferty & Edmunds.

Ephemera (Aethephemera) McCafferty & Edmunds, 1973, *Pan-Pac. Ent.*, **49** : 306. Type : *Ephemera (Aethephemera) nadinae* McCafferty & Edmunds. Original designation.

Ephemera (Aethephemera) nadinae McCafferty & Edmunds. India (Tamil Nadu).

Ephemera (Aethephemera) nadinae McCafferty & Edmunds, 1973, *Pan-Pac. Ent.*, **49** : 306. nym. des., fig. Type : nym., Kodaikanal Grade, S. India (CAL. ACAD).

FAMILY EUTHYPLOCIIDAE

Genus *Euthyplocia* Eaton

Euthyplocia Eaton, 1871, *Trans. Ent. Soc. London*, **1871** : 67.

Type : *Palingenia hecuba* Hagen. Monotypy.

Euthyplocia punensis Dubey. India (Maharashtra).

Euthyplocia punensis Dubey, 1970 *Agra Univ. J. Res., (Sci.)* **19** : 67. ♀. des., fig. Type : ♀, Territoary, Poona.

FAMILY HEPTAGENIIDAE

SUBFAMILY HEPTAGENIINAE

Genus *Afronurus* Lestage

Afronurus Lestage, 1924, *Rev. Zool. Afr.*, **12** : 349.

Type : *Ecdyonurus peringueyi* Esben-Petersen. Original designation.

Afronurus curtus Dubey. India (Himachal Pradesh).

Afronurus curtus Dubey, 1971, *Oriental Ins.*, **5** : 547. ♀. des., fig. Type : ♀, River Solang, N.W. Himalaya (ZSI).

Afronurus solangensis Dubey. India (Himachal Pradesh).

Afronurus solangensis Dubey, 1971, *Oriental Ins.*, **5** : 545. ♀. des., fig. Type : ♀, River Solang, N.W. Himalaya (ZSI).

Genus *Cinygmina* Kimmins

Cinygmina Kimmins, 1937, *Ann. Mag. Nat. Hist.*, (10) **19** : 435.

Type : *Ecinygmina assamensis* Kimmins. Original designation.

Cinygmina assamensis Kimmins. India (Meghalaya).

Cinygmina assamensis Kimmins, 1937, *Ann. Mag. Nat. Hist.*, (10) **19** : 435. ♂, ♀. des., fig. Type : ♂, Khasi Hills, Meghalaya (BMNH).

Genus *Ecdyonurus* Eaton

Ecdyonurus Eaton, 1868, *Trans. Ent. Soc.*, **1868** : 142.

Type : *Ephemera venosa* Fabricius. Original designation.

Ecdyurus Eaton, 1871, *Trans. Ent. Soc. London*, **1871** : 25. (emendation)

Type : *Ephemera venosa* Fabricius. Objective synonymy.

Cinygmoides Matsumura, 1931, *6000 Ill. Ins. Jap. Emp.*, p. 1477.

Type : *Cinygmoides hekachii* Matsumura. Monotypy.

TAXONOMY : Eaton, 1885, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, **3** : 276.

***Ecdyonurus annulifer* (Walker).** India (Khandala, Maharashtra).

Palingenia annulifera Walker, 1860, *Trans. Ent. Soc. London*, (2) **5** : 199.
des. Type : ♀?, Hindustan (BMNH).

Heptagenia annulifera : Eaton, 1871, *Trans. Ent. Soc. London*, **1871** : 148.

Ecdyurus annulifer : Eaton, 1887, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, **3** : 293. ♀. des.

Ecdyonurus annulifer : Navás, 1931, *Rev. Acad. Cien. Zaragoza*, **15** : 23.

Ecdyonurus annulifer : Kimmins, 1950, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, **9** : 279.

***Ecdyonurus bengalensis* Ulmer.** India (W. Bengal).

Ecdyonurus bengalensis Ulmer, 1920, *Archiv Naturges.*, (A) **85** (11) : 75. ♂,
♀. des., fig. Type : ♂, Darjeeling (HAMBURG).

Ecdyonurus bengalensis : Weidner, 1962, *Mitt. Hamburg Zool. Mus. Inst.* **60** : 99.

***Ecdyonurus eatoni* Kimmins.** India (Meghalaya).

Ecdyonurus eatoni Kimmins, 1937, *Ann. Mag. Nat. Hist.*, (10) **19** : 438.

♂, ♀ des., fig. Type : ♂, Khasi Hills, Assam (Now Meghalaya) (BMNH).

***Ecdyonurus indicus* Hubbard.** India (Meghalaya).

Ecdyonurus subsfuscus Kimmins, 1937, *Ann. Mag. Nat. Hist.* (10) **19** : 439.

♂, ♀ des., fig, Type : ♂, Khasi Hills, Assam (Now Meghalaya) (BMNH).

Name preoccupied by Stephens, 1835.

Ecdyonurus indicus Hubbard, 1974, *J. Kansas Ent. Soc.*, **47** : 358.

***Ecdyonurus islamabadicus* Ali.** Pakistan.

Ecdyonurus islamabadicus Ali, 1967, *Pakistan J. Sci.*, **19** : 77. nym. des., fig.

Type : Rawalpindi Dist., Pakistan.

Ecdyonurus islamabadensis Ali, 1970, *Pakistan J. Sci.*, **22** : 124. (emendation).

Ecdyonurus islamabadensis Ali, 1971, *Pakistan J. Sci.*, **23** : 214. (emendation).

Genus *Epeorus* Eaton

Epeorus Eaton, 1881, *Ent. Monthly Mag.*, **18** : 26.

Type : *Epeorus torrentium* Eaton. Original designation.

Heptagenia (Epeorus) : Banks, 1910, *Canad. Ent.*, **42** : 197.

TAXONOMY : Eaton, 1885, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, **3** : 237.
 Burks, 1953, *Bull. Illinois Nat. Hist. Surv.*, **26** : 195.

Subgenus **Epeorus** Eaton

Epeorus (Epeorus) lahaulensis Kapur & Kripalani. India (Himachal Pradesh).

Epeorus lahaulensis Kapur & Kripalani, 1963, *Rec. Indian Mus.*, **59** : 199.
 ♂. des., fig. Type : ♂, Sissu, Lahaul Valley, N.W. Himalaya (ZSI).

Epeorus (Epeorus) psi Eaton. India (Himachal Pradesh). Taiwan.

Epeorus psi Eaton, 1885, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, **3** : 242. ♂,
 ♀. des. Type : ♂, Kooloo Himalaya (=Kulu, N.W. Himalaya) (MCZ).

Epeorus psi : Eaton, 1892, *J. R. Asiatic Soc. Bengal*, **60** : 413. ♀. des.

Epeorus psi : Ulmer, 1912, *Ent. Mitteil.*, **1** : 369.

Epeorus psi : Kimmins, 1960, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, **9** : 282.

Genus **Heptagenia** Walsh

Heptagenia Walsh, 1963, *Proc. Ent. Soc. Philadelphia*, **2** : 197.

Type : *Palingenia flavescens* Walsh. Subsequent designation by Eaton, 1868.

Kageronia Matsumura, 1931, *6000 Illus. Ins. Jap. Emp.*, p. 1479.

Type : *Kageronia suzukiella* Matsumura. Monotypy.

TAXONOMY : Eaton, 1868, *Ent. Monthly Mag.*, **5** : 90.

Eaton, 1885, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, **3** : 265.

Heptagenia hazaraensis Ali. Pakistan.

Heptagenia hazaraensis Ali, 1970, *Pakistan J. Sci.*, **22** : 121. ♂. des., fig.

Type : Abbottabad, Pakistan.

Heptagenia nubila Kimmins. India (Meghalaya).

Heptagenia nubila Kimmins, 1937, *Ann. Mag. Nat. Hist.*, (10) **19** : 437. ♂, ♀.
 des., fig. Type : ♂, Khasi Hills, Assam (Now Meghalaya) (BMNH).

Heptagenia solangensis Dubey. India (Himachal Pradesh).

Heptagenia solangensis Dubey, 1971, *Oriental Ins.*, **5** : 541. ♂, ♀. des., fig.

Type : ♂, River Solang, Pir Panjal Range, N. W. Himalaya (ZSI).

Genus **Ororotsia** Traver

Ororotsia Traver, 1939, *Ann. Mag. Nat. Hist.*, (11) **4** : 33.

Type : *Ororotsia hutchinsoni* Traver. Original designation.

Ororotsia hutchinsoni Traver. India (Himalaya).

Ororotsia hutchinsoni Traver, 1939, *Ann. Mag. Nat. Hist.*, (11) **4** : 33. ♀. nym.
 des., fig. Type : ♀, Ororotse Tso (TRAVER).

Genus **Rhithrogena** Eaton

Rhithrogena Eaton, 1881, *Ent. Monthly Mag.*, **18** : 23.

Type : *Baetis semicolorata* Curtis. Original designation.

TAXONOMY : Eaton, 1885, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, **3** : 250.

Rhithrogena basiri Ali. Pakistan.

Rhithrogena basiri Ali, 1971, *Pakistan J. Sci.*, **23** : 212. nym. des., fig. Type: Swat, Pakistan.

INCERTAE SEDIS**Genus Ichthybotus** Eaton

Ichthybotus Eaton, 1899, *Trans. Ent. Soc. London*, **1899** : 285.

Type : *Ephemera hudsoni* Mc Lachlan. Monotypy.

Ichthybotus dodecus Dubey. India (Himachal Pradesh).

Ichthybotus dodecus Dubey, 1971, *Oriental Ins.*, **5** : 521. ♂, ♀. des., fig. Type: ♂, Pir Panjal Range, N.W. Himalaya (ZSI).

Ichthybotus dodecus : McCafferty, 1973, *Oriental Ins.*, **7** : 351. (states that this species does not belong to *Ichthybotus*, nor even to the Ephemeroidea, but correct placement is yet to be determined)

FAMILY LEPTOPHLEBIIDAE**Genus Atalophlebia** Eaton

Atalophlebia Eaton, 1881, *Ent. Monthly Mag.*, **17**:193.

Type : *Ephemera australis* Walker. Original designation.

Atalophlebia chialhnia Dubey. India (Himachal Pradesh).

Atalophlebia chialhnia Dubey, 1971, *Oriental Ins.*, **5** : 531. ♀. des., fig.

Type : ♀, River Alhni, N.W. Himalaya (ZSI).

Atalophlebia femoralis (Hagen). Sri Lanka.

Potamanthus femoralis Hagen, 1858, *Verh. Bot. Zool. Ges. Wien*, **8** : 476. ♂, ♀. des. Type : Rainbodde (MCZ).

Leptophlebia femoralis : Eaton, 1871, *Trans. Ent. Soc. London*, **1871** : 83. des.

Atalophlebia femoralis : Eaton, 1884, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, **3** : 85. ♂, ♀. des.

Atalophlebia femoralis : Fernando, 1965, *Bull. Freshwater Fish. Res. Stat. Ceylon*, **17** : 187.

Atalophlebia femoralis : Peters & Edmunds, 1970, *Pacific Ins.*, **12** : 159. (state that this species probably represents an undescribed genus).

Genus Choroterpes Eaton

Choroterpes Eaton, 1881, *Ent. Monthly Mag.*, **17** : 194.

Type : *Choroterpes lusitanica* Eaton [= *Choroterpes picteti* (Eaton)]. Original designation.

Subgenus Euthraulus Barnard

Euthraulus Barnard, 1932, *Trans. R. Soc. S. Afr.*, **20** : 249.

Type : *Euthraulus elegans* Barnard. Monotypy.

Thraululus Ulmer, 1939, *Archiv Hydrobiol. (Supp.)* **16** : 499.

Type : *Thraulus marginatus* Ulmer. Original designation.

Choroterpes (Eutharulus) : Peters & Edmunds, 1964, *Trans. R. Ent. Soc. London*, **116** : 241.

TAXONOMY : Gillies, 1957, *Proc. R. Ent. Soc. London*, (B) **26** : 43.

Choroterpes (Euthraulus) exigua Eaton. Burma.

Choroterpes exiguum Eaton, 1892, *Trans. Ent. Soc. London*, **1892** : 189. ♂ des. Type : ♂, Tenasserim Valley, Burma (BMNH).

Choroterpes exigua : Kimmins, 1960, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, **9** : 296. Lectotype designation, ♂. fig.

Choroterpes (Euthraulus) exigua : Peters & Edmunds, 1970, *Pacific Ins.*, **12** : 195.

Choroterpes (Euthraulus) parvula (Gillies). India (Madhya Pradesh).

Thraululus parvulus Gillies, 1951, *Proc. R. Ent. Soc. London*, (B) **20** : 124. ♂, ♀. des., fig. Type : ♂, Branch of River Sonar, 12th milestone on Saugor-Damo Rd., Central Prov. (BMNH).

Euthraulus parvulus : Gillies, 1957, *Proc. R. Ent. Soc. London*, (B) **26** : 44.

Choroterpes (Euthraulus) parvula : Peters & Edmunds, 1964, *Trans. R. Ent. Soc. London*, **116** : 241.

Choroterpes (Euthraulus) parvula : Peters & Edmunds, 1970, *Pacific Ins.*, **12** : 195.

Thraululus parvulus : Kimmins, 1971, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, **25** : 318.

Choroterpes (Euthraulus) qadrica Ali. Pakistan.

Choroterpes qadricus Ali, 1967, *Pakistan J. Sci.*, **19** : 82. nym. des., fig. Type : Rawalpindi Dist., Pakistan.

Choroterpes quadrii Ali, 1970, *Pakistan J. Sci.*, **22** : 124. (emendation).

Choroterpes qadrii Ali, 1971, *Pakistan J. Sci.*, **23** : 214. (emendation).

Choroterpes (Euthraulus) signata (Hagen). Sri Lanka.

Cloe? signata Hagen, 1858, *Verh. Bot. Zool. Ges. Wien*, **8** : 477. ♂, ♀. des. Type : Rainbodde.

Cloe? signata : Hagen, 1859, *Verh. Bot. Zool. Ges. Wien*, **9** : 206.

Leptophlebia signata : Hagen, 1873, *Trans. Ent. Soc.*, **1873** : 395.

Thraulus signatus : Eaton, 1884, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, **3** : 108. ♂, ♀ des.

Thraulus signatus : Fernando, 1965, *Bull. Freshwater Fish. Res. Stat. Ceylon*, **17** : 187.

Choroterpes (Euthraulus) signata : Peters & Edmunds, 1970, *Pacific Ins.*, **12** : 195.

Genus *Gilliesia* Peters & Edmunds

Gilliesia Peters & Edmunds, 1970, *Pacific Ins.*, **12** : 189.

Type : *Thraulus hindustanicus* Gillies. Original designation.

Genus *Gilliesia hindustanica* (Gillies). India (W. Bengal).

Thraulus hindustanicus Gillies, 1951, *Proc. R. Ent. Soc. London*, (B) **20** : 124.

♂, ♀. des., fig. Type : ♂, Mirik, N. Bengal (BMNH).

Gilliesia hindustanica : Peters & Edmunds, 1970, *Pacific Ins.*, **12** : 190.

Thraulus hindustanicus : Kimmins, 1971, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, **25** : 315.

Genus *Hagenulus* Eaton

Hagenulus Eaton, 1882, *Ent. Monthly Mag.*, **18** : 207.

Type : *Hagenulus caligatus* Eaton. Original designation.

Genus *Hagenulus monstratus* Eaton. Burma.

Hagenulus monstratus Eaton, 1892, *Trans. Ent. Soc. London*, **1892** : 189. ♂, ♀ des., Type : ♂, Tennaserim Valley, Burma (BMNH).

Hagenulus monstratus : Traver, 1938, *J. Agr. Univ. Puerto Rico*, **22** : 6. (erroneously reports from Bermuda).

Hagenulus monstratus : Kimmins, 1960, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, **9** : 300. Lectotype designation.

Hagenulus monstratus : Peters, Gillies & Edmunds, 1964, *Proc. R. Ent. Soc. London*, (B) **33** : 118.

Hagenulus monstratus : Peters & Edmunds, 1964, *Trans. R. Ent. Soc. London*, **116** : 248.

Hagenulus monstratus : Peters & Edmunds, 1970, *Pacific Ins.*, **12** : 159.

Hagenulus monstratus : Peters, 1971, *Smithsonian Contr. Zool.*, **62** : 18. (Peters & Edmunds, 1970, and Peters, 1971, state *monstratus* does not belong to *Hagenulus*, correct generic placement not yet determined).

Genus *Indialis* Peters & Edmunds

Indialis Peters & Edmunds, 1970, *Pacific Ins.*, **12** : 208.

Type : *Indialis badia* Peters & Edmunds. Original designation.

Genus *Indialis badia* Peters & Edmunds. India (Kerala, Andhra Pradesh).

Indialis badia Peters & Edmunds, 1970, *Pacific Ins.*, **12** : 209. ♂, nym. des., fig. Type : ♂, Erumeli Koratty River, Kerala State (FAMU).

Indialis badia : Peters, 1975, *Pan-Pac. Ent.*, **51** : 159. ♂. des.

Genus *Indialis rossi* Peters. India (Kerala).

Indialis rossi Peters, 1975, *Pan-Pac. Ent.*, **51** : 160. ♂. des., fig.

Type : ♂, Kittikanam, Kerala State (CAL. ACAD.).

Genus *Isca* Gillies

Isca Gillies, 1951, *Proc. R. Ent. Soc. London*, (B) **20** : 127.

Type : *Isca purpurea* Gillies. Original designation.

Subgenus **Isca** Gillies

Isca (Isca) purpurea Gillies. India (Mirik, W. Bengal). Hong Kong.

Isca purpurea Gillies, 1951, *Proc. R. Ent. Soc. London*, (B)20 : 128. ♂, ♀. des., fig. Type : ♂, Hong Kong, 15-20 mi inland from Kowloon (BMNH).

Isca purpurea : Kimmins, 1971, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, 25 : 319.

Subgenus **Tanycola** Peters & Edmunds

Isca (Tanycola) Peters & Edmunds, 1970, *Pacific Ins.*, 12 : 219.

Type : *Isca (Tanycola) serendiba* Peters & Edmunds. Original designation.

Isca (Tanycola) serendiba Peters & Edmunds. Sri Lanka.

Isca (Tanycola) serendiba Peters & Edmunds, 1970, *Pacific Ins.*, 12 : 220. ♂, ♀. nym. des., fig. Type : ♂, Yakkala, W. Prov., Ceylon (LUND).

Genus **Kimminsula** Peters & Edmunds

Kimminsula Peters & Edmunds, 1970, *Pacific Ins.*, 12 : 192.

Type : *Potamanthus annulatus* Hagen. Original designation.

Kimminsula annulata (Hagen). Sri Lanka.

Potamanthus annulatus Hagen, 1858, *Verh. Bot. Zool. Ges. Wien*, 8 : 476. ♀. des. Type : Rainbodde, Ceylon (MCZ).

Leptophlebia annulata : Eaton, 1871, *Trans. Ent. Soc. London*, 1871 : 82. ♂. des., fig.

Leptophlebia annulata : Hagen, 1873, *Trans. Ent. Soc. London*, 1873 : 393.

Atalophlebia annulata : Eaton, 1884, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, 3 : 85. ♂. des., fig.

Atalophlebia annulata : Kimmins, 1960, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, 9 : 296.

Atalophlebia annulata : Fernando, 1965, *Bull. Freshwater Fish. Res. Sta. Ceylon*, 17 : 187.

Kimminsula annulata : Peters & Edmunds, 1970, *Pacific Ins.*, 12 : 192.

Kimminsula fasciata (Hagen). Sri Lanka.

Potamanthus fasciatus Hagen, 1858, *Verh. Bot. Zool. Ges. Wien*, 8 : 476. ♂, ♀. des. Type : Rainbodde, Ceylon (MCZ).

[non] *Ephemera fasciata* : Eaton, 1871, *Trans. Ent. Soc. London*, 1871 : 74.

Atalophlebia fasciata : Eaton, 1884, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, 3 : 84. ♂ des., fig.

Atalophlebia fasciata : Fernando, 1965, *Bull. Freshwater Fish. Res. Sta. Ceylon* 17 : 187.

Kimminsula fasciata : Peters & Edmunds, 1970, *Pacific Ins.*, 12 : 192.

Kimminsula taprobanes (Walker). Sri Lanka.

Baetis taprobanes Walker, 1853, *List. Neuropt. Ins. Brit. Mus.*, 3 : 567. ♂. des. Type : ♂, Ceylon (BMNH).

Leptophlebia taprobanes : Eaton, 1871, *Trans. Ent. Soc. London*, **1871** : 82.
♂. des., fig.

Leptophlebia taprobanes : Hagen, 1873, *Trans. Ent. Soc.*, **1873** : 393.

Atalophlebia taprobanes : Eaton, 1884, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, **3** : 85. ♂. des., fig.

Atalophlebia taprobanes : Kimmins, 1960, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, **9** : 296. ♂. fig.

Atalophlebia taprobanes : Fernando, 1965, *Bull. Freshwater Fish. Res. Sta. Ceylon*, **17** : 187.

Kimminsula taprobanes : Peters & Edmunds, 1970, *Pacific Ins.*, **12** : 192.

Genus *Megaglena* Peters & Edmunds

Megaglena Peters & Edmunds, 1970, *Pacific Ins.*, **12** : 210.

Type : *Megaglena brincki* Peters & Edmunds. Original designation

Megaglena brincki Peters & Edmunds. Sri Lanka.

Megaglena brincki Peters & Edmunds, 1970, *Pacific Ins.*, **12** : 211. ♂, ♀, nym. des., fig. Type : ♂, Maratenna, Sabaragamuwa Prov., Ceylon (LUND).

Genus *Nathanella* Demoulin

Nathanella Demoulin, 1955, *Bull. Inst. R. Sci. Nat. Belg.*, **31** (77) : 1.

Type : *Nathanella indica* Demoulin. Original designation.

Nathanella indica Demoulin. India (Tamil Nadu).

Nathanella indica Demoulin, 1955, *Bull. Inst. R. Sci. Nat. Belg.*, **31** (77) : 2.

♂. des., fig. Type : ♂, Kodaikanal, Palney Hills, S. India.

Nathanella indica : Peters & Edmunds, 1970, *Pacific Ins.*, **12** : 212.

Genus *Notophlebia* Peters & Edmunds

Notophlebia Peters & Edmunds, 1970, *Pacific Ins.*, **12** : 213.

Type : *Notophlebia hyalina* Peters & Edmunds. Original designation.

Notophlebia hyalina Peters & Edmunds. India (Tamil Nadu).

Notophlebia hyalina Peters & Edmunds, 1970, *Pacific Ins.*, **12** : 213. ♂. des., fig. Type : ♂, Kunjankhuzi, Madras State (FAMU).

Genus *Thraulodes* Ulmer

Thraulodes, Ulmer, 1920, *Archiv Naturgesch.*, **A85** (11) : 33.

Type : *Thraulus laetus* Eaton. Original designation.

TAXONOMY : Traver & Edmunds, 1967, *Misc. Publ. Ent. Soc. Amer.*, **5** : 349.

Thraulodes marhieus Dubey. India (Himachal Pradesh).

Thraulodes marhieus Dubey, 1970, *Oriental Ins.*, **4** : 302. ♀. des., fig.

Type : ♀, near Marhi, N.W. Himalaya.

[*Thraulodes* is a genus known otherwise only from the New World; this species is in all probability misplaced at the generic level].

Genus *Thraulus* Eaton

Thraulus Eaton, 1881, *Ent. Monthly Mag.*, 17 : 195.

Type : *Thraulus bellus* Eaton. Original designation.

Masharikella Peters, Gillies & Edmunds, 1964, *Proc. R. Ent. Soc. London*, (B) 33 : 118. Type : *Hagenulus fasciatus* Kimmins. Original designation.

***Thraulus semicastaneus* (Gillies).** India (Maharashtra).

Habrophlebiodes semicastanea Gillies, 1951, *Proc. R. Ent. Soc. London*, (B) 20 : 125. ♂. des., fig. Type : ♂, River Mutha near Poona (BMNH).

Masharikella semicastanea : Peters, Gillies & Edmunds, 1964, *Proc. R. Ent. Soc. London*, (B) 33 : 118.

Thraulus semicastaneus : Peters & Edmunds, 1970, *Pacific Ins.*, 12 : 203.

Masharikella semicastanea : Kimmins, 1971, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, 25 : 320.

FAMILY NEOEPHEMERIDAE

Genus *Potamanthellus* Lestage

Potamanthellus Lestage, 1931, *Mem. Soc. Ent. Belg.*, 23 : 120.

Type: *Potamanthellus horai* Lestage. Original designation.

Rhoenanthodes Lestage, 1931, *Mem. Soc. Ent. Belg.*, 23 : 136.

Type: *Rhoenanthus amabilis* Eaton. Original designation.

TAXONOMY: Edmunds, 1961, *Eatonia*, 5 : 3.

***Potamanthellus amabilis* (Eaton).** Burma. China. Vietnam.

Rhoenanthus amabilis Eaton, 1892, *Trans. Ent. Soc. London*, 1892 : 188. ♂.

des., fig. Type : ♂, Tenasserim Valley, Burma (BMNH).

Rhoenanthodes amabilis: Lestage, 1931, *Mem. Soc. Ent. Belg.*, 23 : 136. ♀. des.

Rhoenanthodes amabilis: Hafiz, 1937, *Rec. Indian Mus.*, 39 : 369.

Potamanthellus amabilis: Hsu, 1936-7, *Peking Nat. Hist. Bull.*, 11 : 137,

Potamanthellus amabilis: Kimmins, 1960, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, 9 : 306. Lectotype designation.

FAMILY OLIGONEURIIDAE

SUBFAMILY OLIGONEURIINAE

Genus *Oligoneuriella* Ulmer

Oligoneuriella Ulmer, 1924, *Konowia*, 3 : 31.

Type: *Oligoneuria rhenana* Imhoff. Original designation.

TAXONOMY: Landa, 1969, *Fauna CSSR*, 18 : 141.

***Oligoneuriella kashmirensis* (Ali).** Pakistan.

Oligoneura [sic] *kashmirensis* Ali, 1971, *Pakistan J. Sci.*, 23 : 209. nym. des., fig. Type: Punch River, Kotli, Azad Kashmir, Pakistan.

Oligoneuriella kashmirensis: Sowa & Zosidze, 1973, *Bull. Acad. Pol. Sci.*, (Cl. 2) **21** : 603.

Oligoneuriella kashmirensis: Sowa, 1973, *Bull. Acad. Pol. Sci.*, (Cl. 2) **21** : 664. key.

FAMILY PALINGENIIDAE

Genus *Anagenesia* Eaton

Palingenia (*Anagenesia*) Eaton, 1883, *Trans. Linn. Soc. London*, (Ser. 2), *Zool.*, **3** : 25.

Type: *Palingenia lata* Walker. Original designation.

Anagenesia: Ulmer, 1920, *Stettin. Ent. Z.*, **81** : 101.

TAXONOMY: Demoulin, 1965, *Nova Guinea, Zool.*, **33** : 317.

Anagenesia birmanica Navás. Burma.

Anagenesia birmanica Navás, 1932, *Mem. Pont. Acad.*, (2) **16** : 954. ♂. des., fig. Type : ♂, Shenmaga, Burma (GENOVA).

Anagenesia birmanica: Demoulin, 1965, *Nova Guinea, Zool.*, **33** : 37. ♀. des.

Anagenesia lata (Walker). India (Assam, Sibsagar). Bangla Desh. Borneo?

Palingenia lata Walker, 1853, *List Neurop. Ins. Brit. Mus.*, **3** : 550. ♂. des.

Type : ♂, Silhet (BMNH). Lectotype designated by Kimmings, 1960.

Palingenia lata: Eaton, 1871, *Trans. Ent. Soc. London*, **1871** : 63. ♂. des., fig.

Palingenia (*Anagenesia*) *lata* : Eaton, 1883, *Trans. Linn. Soc. London*, (Ser. 2), *Zool.*, **3** : 25. ♂. des., fig.

Palingenia lata: Eaton, 1892, *J. R. Asiatic Soc. Bengal*, **60** : 407. ♂. des.

Palingenia (*Anagenesia*) *lata*: Gravely, 1920, *Rec. Indian Mus.*, **18** : 140. ♂. des., fig.

Anagenesia lata: Lestage, 1923, *Ann. Soc. Ent. Belg.*, **63** : 108. key.

Anagenesia lata: Chopra, 1927, *Rec. Indian Mus.*, **29** : 108. ♂. des., fig.

Anagenesia lata: Ulmer, 1939, *Archiv Hydrobiol.*, (Supp.) **16** : 458.

Anagenesia lata: Kimmings, 1960, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, **9** : 314.

Anagenesia lata: Demoulin, 1965, *Nova Guinea, Zool.*, **33** : 320. ♂. des.

Anagenesia lotona Hafiz. Burma.

Anagenesia lotona Hafiz, 1937, *Rec. Indian Mus.*, **39** : 352. ♀. des., fig. Type : ♀, Loton, Myitkyina Dist., Upper Burma (ZSI).

Anagenesia lotona: Demoulin, 1952, *Bull. Inst. R. Sci. Nat. Belg.*, **28** (21) :

10. ♀. fig.

Anagenesia lotona: Demoulin, 1965, *Nova Guinea, Zool.*, **33** : 326. ♀. des.

Anagenesia minor (Eaton). India (Bengal, Bihar, Maharashtra). Bangla Desh. Pakistan.

Palingenia minor Eaton, 1892, *J. R. Asiatic Soc. Bengal*, **60** : 408. ♂. des.

Type : ♂, locality unknown, prob. Nattor or Karachi (ZSI?).

Anagenesia minor: Ulmer, 1920, *Stettin. Ent. Z.*, **81** : 102.

Palingenia (Anagenesia) minor: Gravely, 1920, *Rec. Indian Mus.*, **18** : 143.
♂. fig.

Anagenesia minor: Lestage, 1923, *Ann. Soc. Ent. Belg.*, **63** : 108. key.

Anagenesia minor: Chopra, 1927, *Rec. Indian Mus.*, **29** : 113. ♂, ♀. des., fig.

Anagenesia minor: Hafiz, 1937, *Rec. Indian Mus.* **39** : 353. des.

Anagenesia minor: Kimmins, 1960, *Bull. Brit. Mus. (Nat. Hist.) Ent.* **9** : 314.

Anagenesia minor: Demoulin, 1965, *Nova Guinea, Zool.*, **33** : 318. ♂, ♀. des.

Anagenesia robusta (Eaton). India (Assam).

Palingenia robusta Eaton, 1892, *J. R. Asiatic Soc. Bengal*, **60** : 407. ♂. des.
Type : ♂, Cachar, Assam (ZSI).

Palingenia (Anagenesia) robusta: Gravely, 1920, *Rec. Indian Mus.*, **18** : 140.
♂. nym. des., fig.

Anagenesia robusta: Lestage, 1923, *Ann. Soc. Ent. Belg.*, **63** : 108. key.

Anagenesia robusta: Chopra, 1927, *Rec. Indian Mus.*, **29** : 109. ♂, ♀. des., fig.

Anagenesia robusta: Kimmins, 1960, *Bull. Brit. Mus. (Nat. Hist.) Ent.*, **9** : 314.

Anagenesia robusta: Demoulin, 1965, *Nova Guinea, Zool.*, **33** : 318. ♂, ♀. des.

FAMILY POLYMITARCYIDAE

SUBFAMILY ASTHENOPODINAE

Genus Povilla Navás

Povilla Navás, 1912, *Rev. Zool. Afr.*, **1** : 402.

Type: *Povilla adusta* Navás. Original designation.

Povilla corporaali (Lestage). India (Assam). Sri Lanka. Java. Sumatra. Simalur.

Asthenopus corporaali Lestage, 1922, *Ann. Soc. Ent. Belg.*, **62** : 145. ♀. des.,
Type: Sukabumi, Java (type destroyed).

Povilla corporaali: Ulmer, 1924, *Treubia*, **6** : 34. ♀. des., fig.

Povilla corporaali: Chopra, 1927, *Rec. Indian Mus.*, **29** : 135. ♀. des., fig.

Povilla corporaali: Ulmer, 1939, *Archiv Hydrobiol.*, (Supp.) **16** : 466.

Povilla corporaali: Ulmer, 1940, *Archiv Hydrobiol.*, (Supp.) **16** : 595. nym.
des., fig.

Povilla corporaali: Gillies, 1951, *Proc. R. Ent. Soc. London (B)* **20** : 121.

Povilla corporaali: Fernando, 1965, *Bull. Freshwater Fish. Res. Sta. Ceylon*,
17 : 187.

SUBFAMILY POLYMITARCYINAE

Genus Ephoron Williamson

Ephoron Williamson, 1802, *Trans. Amer. Philos. Soc.*, **5** : 71.

Type: *Ephoron leukon* Williamson. Monotypy.

Polymitarcys Eaton, 1868, *Ent. Mon. Mag.*, **5** : 84.

Type: *Ephemera virgo* Olivier. Original designation.

Eopolymitarcys Tshernova, 1934, *Dokladi Akad. Nauk USSR*, **4** : 240.

Type : *Eopolymitaracys nigridorsum* Tshernova. Original designation.
 TAXONOMY : Eaton, 1883, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, 3 : 43.

Ephoron annandalei (Chopra). India (Bihar).

Polymitarcys annandalei Chopra, 1927, *Rec. Indian Mus.*, 29 : 130. ♂, ♀.
 des., fig. Type : Chakradharpur, Chota Nagpur (ZSI).
Ephoron annandalei : Spieth, 1940, *Canad. Ent.*, 72 : 110.

Ephoron birmanus (Navás). Burma.

Polymitarcys birmanus Navás 1933, *Mem. Pontif. Acad.*, 17 : 87. ♂. des., fig.
 Type : ♂, Bhamà, Birmania.

Ephoron indicus (Pictet). India (Maharashtra, Madhya Pradesh, State, Rewa S. India, Bihar, Assam). Sri Lanka. Burma. Tonkin. (Vietnam) Java. Sumatra. Borneo.

Palingenia indica Pictet, 1843, *Hist. Nat. Gén. Part. Ins. Név.*, p. 151. ♀.
 des., fig. Type : ♀, Indes Orientales (WIEN).

Palingenia indica : Walker, 1853, *List. Neuropt. Ins. Brit. Mus.*, 3 : 549.

Polymitarcys indicus : Eaton, 1871, *Trans. Ent. Soc. London*, 1871 : 61.

Polymitarcys indicus : Eaton, 1883, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, 3 : 47. ♀. des.

Polymitarcys australis : Hagen, 1888, *Stettin. Ent. Z.*, 49 : 231. ♀. des.
 Type : ♀, Telang, Südost-Borneo (MCZ).

Polymitarcys indicus : Ulmer, 1913, *Notes Leyden Mus.*, 35 : 102. ♀. des., fig.

Anagenesia greeni Banks, 1914, *Proc. Acad. Nat. Sci. Philadelphia*, 66 : 612.
 des. Type : Kandy, Ceylon.

Polymitarcys indicus : Lestage, 1921, *Ann. Soc. Ent. Belg.*, 61 : 211. ♀. des.

Anagenesia greeni : Lestage, 1923, *Ann. Soc. Ent. Belg.*, 63 : 109. key.

Polymitarcys indicus : Lestage, 1924, *Fauna Ent. Indochin. Fran.*, 1924 : 79.
 ♂, ♀. des.

Polymitarcys indicus : Ulmer, 1924, *Treubia*, 6 : 32.

Polymitarcys indicus : Chopra, 1927, *Rec. Indian Mus.*, 29 : 124. ♂, ♀. des., fig.

Polymitarcys indicus : Hafiz, 1937, *Rec. Indian Mus.*, 39 : 354. ♂, ♀. des.

Polymitarcys indicus : Ulmer, 1939, *Archiv Hydrobiol.*, (Supp.) 16 : 464.

Ephoron indicus : Spieth, 1940, *Canad. Ent.*, 72 : 110.

Polymitarcys indicus : Gillies, 1951, *Proc. R. Ent. Soc. London*, (B) 20 : 121.

Ephoron indicus : Fernando, 1965, *Bull. Freshwater Fish. Res. Sta. Ceylon*
 17 : 187.

FAMILY POTAMANTHIDAE

Genus *Potamanthus* Pictet

Potamanthus Pictet, 1843, *Hist. Nat. Gén. Part. Ins. Nèvropt*, p. 111, 197.
 Type : *Ephemera lutea* Linnaeus. Subsequent designation by Eaton, 1871.

Eucharidis Joly & Joly, 1876, *Rev. Sci. Nat. Montpellier*, **5** : 10, figs. 13-16, 30-31.

Type : *Eucharidis reaumurii* Joly & Joly. Monotypy.

TAXONOMY : Eaton, 1871, *Trans. Ent. Soc. London*, **1871** : 36.

Eaton, 1884, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, **3** : 78.

Potamanthus subcostalis Navás. India (Maharashtra).

Potamanthus subcostalis Navás, 1931, *Rev. Acad. Cien. Zaragoza*, **15** : 17.

♀. des., fig. Type : Khandala, Bombay.

Genus Rhoenanthus Eaton

Rhoenanthus Eaton, 1881, *Ent. Monthly Mag.*, **17** : 192.

Type : *Rhoenanthus speciosus* Eaton. Original designation.

TAXONOMY : Eaton, 1884, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, **3** : 81.

Rhoenanthus posticus Banks. Sri Lanka.

Rhoenanthus posticus Banks, 1914, *Proc. Acad. Nat. Sci. Philadelphia*, **66** : 613. ♂. des. Type : Kandy, Ceylon.

Rhoenanthus posticus : Lestage, 1931, *Mem. Soc. Ent. Belg.*, **23** : 131. ♂. des., key.

Rhoenanthus posticus : Hafiz, 1937, *Rec. Indian Mus.*, **29** : 369.

Rheonanthus [sic] *posticus* : Fernando, 1965, *Bull. Freshwater Fish. Res. Sta. Ceylon*, **17** : 187.

FAMILY PROSOPISTOMATIDAE

Genus Prosopistoma Latreille

Prosopistoma Latreille, 1833, *Ann. Mus. Hist. Nat., Paris*, (3^e Sér.) **2** : 33.

Type : *Prosopistoma variegatum* Latreille. Subsequent designation by Eaton, 1884.

Chelysentomon Joly & Joly, 1872, *Mém. Acad. Sci. Inscr. B.—Lett. Toulouse*, (7^e Sér.) **4** : 438.

Type : *Prosopistoma punctifrons* Latreille. Original designation.

Taxonomy : Eaton, 1884, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, **3** : 150.

Hubbard, 1977, *Proc. 2nd Intern. Conf. Ephemeroptera*, Kraków, in press.

Prosopistoma indicum Peters. India (Kerala).

Prosopistoma indicum Peters, 1967, *Tijdschr. Ent.*, **110** : 219. nym. des., fig., key. Type : nym., 35 mi E of Kottayam, Kerala (FAMU).

Prosopistoma lieftincki Peters. Sri Lanka.

Prosopistoma lieftincki Peters, 1967, *Tijdschr. Ent.*, **110** : 217. nym. des., fig., key. Type : nym., Rangala, 12 mi ENE of Kandy, Central Province, Ceylon (LUND).

FAMILY SIPHLONURIDAE

SUBFAMILY ISONYCHIINAE

Genus *Isonychia* Eaton

Isonychia Eaton, 1871, *Trans. Ent. Soc. London*, 1871 : 33, 134.

Type : *Isonychia manca* Eaton. Original designation.

Jolia Eaton, 1881, *Ent. Monthly Mag.*, 17 : 192.

Type : *Palingenia roeselii* Joly. Original designation.

Chirotonetes Eaton, 1881, *Ent. Monthly Mag.*, 18 : 21.

Type : *Isonychia manca* Eaton. Objective synonymy.

Eatonia Ali, 1970, *Pakistan J. Sci.*, 22 : 121. NEW SYNONYMY.

Name preoccupied by Hall, 1857; Smith, 1875; Cambridge, 1898; Meunier, 1905.

Type : *Eatonia khyberensis* Ali. Monotypy.

Isonychia khyberensis (Ali). NEW COMBINATION. Pakistan.

Eatonia khyberensis Ali, 1970, *Pakistan J. Sci.*, 22 : 121. ♂, ♀. des., fig.

Type : Peshawar Univ., Pakistan.

SUBFAMILY SIPHLONURINAE

Genus *Ameletus* Eaton

Ameletus Eaton, 1885, *Trans. Linn. Soc. London*, (Ser. 2) *Zool.*, 3 : 210.

Type : *Ameletus subnotatus* Eaton. Original designation.

Chimura Navás, 1915, *Ent. Mitteil.*, 4 : 149.

Type : *Chimura aetherea* Navás. Original designation.

Paleoameletus Lestage, 1940, *Bull. Ann. Soc. Ent. Belg.*, 80 : 123.

Type : *Ameletus primitivus* Traver. Original designation.

Ameletus primitivus Traver. India (Himalaya).

Ameletus primitivus Traver, 1939, *Ann. Mag. Nat. Hist.*, (11) 4 : 43. ♀, nym.

des. fig. Type : ♀, Kyam (TRAVER).

Paleoameletus primitivus : Lestage, 1940, *Bull. Ann. Soc. Ent. Belg.*, 80 : 123.

♂, ♀. des.

FAMILY TRICORYTHIDAE

SUBFAMILY TRICORYTHINAE

Genus *Neurocaenis* Navás

Neurocaenis Navás, 1936, *Rev. Zool. Bot. Afr.*, 28 : 365.

Type : *Neurocaenis fuscata* Navás. Original designation.

Neurocaenis jacobsoni (Ulmer). Sri Lanka. Java. Sumatra. Philippines.

Tricorythus jacobsoni Ulmer, 1913, *Notes Leyden Mus.*, 35 : 105, ♂. des.

fig. Type : ♂, Wonosobo, Java (HAMBURG).

Tricorythus jacobsoni : Ulmer, *Treubi*, 6:50. ♂, ♀. des. fig.

- Tricorythus jacobsoni* : Ulmer, 1939, *Archiv Hydrobiol.*, (Supp.) **16** : 521.
Tricorythus jacobsoni : Ulmer, 1940, *Archiv Hydrobiol.*, (Supp.) **16** : 638.
 nym. des., fig.
Neurocaenis jacobsoni : Demoulin, 1954, *Bull. Ann. Soc. Ent. Belg.*, **90** : 270.
Tricorythus jacobsoni : Weidner, 1964, *Mitt. Hamburg Zool. Mus. Inst.*, **61** : 136.

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ALPHABETICAL REGISTER OF GENERA AND SPECIES

Acentrella	4	australis, Polymitarcys	29
Acerella	13	Austrocloeon	7
acuticostalis, Baetis	4	badia, Indialis	23
Aethphemera	18	Baetiella	4
Afromera	15	— ladakae	4
Afronurus	18	Baetis	4
— curtus	18	— acuticostalis	4
— solangensis	18	— bifurcatus	5
amabilis, Potamanthellus	26	— chandra	5
amabilis, Rhoenanthodes	26	— consuetus	5
amabilis, Rhoenanthus	26	— dipsicus	5
Ameletus	31	— feminalis	5
— primitivus	31	— festivus	5
Anagenesia	27	— fluitans	5
— birmanica	27	— himalayana	5
— greeni	29	— lahaulensis	5
— lata	27	— longistylus	6
— lotona	27	— macani	6
— minor	27	— macanis	6
— robusta	28	— maacani	6
annandalei, Ephemerida	15	— meeheani	6
annandalei, Ephoron	29	— meeheanis	6
annandalei, Polymitarcys	29	— palmyrae	6
annulata, Atalophlebia	24	— punjabensis	6
annulata, Kimminsula	24	— septemmenes	6
annulata, Leptophlebia	24	— seragruis	6
annulatus, Potamanthus	24	— simplex	6
annulifera, Ecdyonurus	19	— solangensis	6
annulifera, Ecdyurus	19	— solidus	7
annulifera, Heptagenia	19	— solitarius	7
annulifera, Palingenia	19	— taprobanes	24
apicatum, Cloeon	8	— thurbonis	7
assamensis, Cinygmina	18	— tigroides	7
Asthenopus corporaali	28	basiri, Rhithrogena	21
Atalophlebia	21	bengalense, Cloeon	8
— annulata	24	bengalensis, Ecdyonurus	19
— chialhnia	21	bicolor, Cloeon	8
— fasciata	24	bifurcatus, Baetis	4
— femoralis	21	bimaculatum, Chloeo	10
— taprobanes	25	bimaculatum, Cloeon	10

bimaculatum, <i>Procloeon</i>	10	— <i>marginalis</i>	9
<i>birmanica</i> , <i>Anagenesia</i>	27	— <i>pulchella</i>	9
<i>birmanus</i> , <i>Ephoron</i>	29	— <i>pulchellum</i>	9
<i>birmanus</i> , <i>Polymitarcys</i>	29	— <i>siccum</i>	9
<i>Brachyphlebia</i>	4	— <i>taeniatum</i>	10
<i>brincki</i> , <i>Megaglena</i>	25	— <i>taeniolatum</i>	10
<i>brunnea</i> , <i>Ephemera</i>	15	— <i>variegatum</i>	10
<i>Caenis</i>	11	— <i>viridis</i>	9
— <i>kimminsi</i>	12	<i>Cloeopsis</i>	7
— <i>nigrostriata</i>	12	<i>coheri</i> , <i>Ephemerella</i>	13
— <i>perpusilla</i>	12	<i>censors</i> , <i>Ephemera</i>	16
— <i>picea</i>	12	<i>consuetus</i> , <i>Baetis</i>	5
— <i>piscina</i>	12	<i>consuetus</i> , <i>Cloe</i>	5
— <i>srinagari</i>	12	<i>corporaali</i> , <i>Asthenopus</i>	28
<i>campestre</i> , <i>Centroptilum</i>	7	<i>corporaali</i> , <i>Povilla</i>	28
<i>Centroptilum</i>	7	<i>Crinitella</i>	13
— <i>campestre</i>	7	<i>curtus</i> , <i>Afronurus</i>	18
<i>chandra</i> , <i>Baetis</i>	5	<i>debilis</i> , <i>Baetis</i>	11
<i>Chelysentomon</i>	30	<i>debilis</i> , <i>Cloeon</i>	11
<i>chialchnia</i> , <i>Atalophlebia</i>	21	<i>debilis</i> , <i>Procloeon</i>	11
<i>Chimura</i>	31	<i>dentata</i> , <i>Teloganodes</i>	14
<i>Chloeon bimaculatum</i>	10	<i>diffusa</i> , <i>Ephemera</i>	16
<i>Chloeon marginata</i>	9	<i>dipsicus</i> , <i>Baetis</i>	5
<i>Choroterpes</i>	21	<i>dipterum</i> , <i>Cloeon</i>	8
— (<i>Euthraulus</i>)	22	<i>dodecus</i> , <i>Ichthybotus</i>	21
— <i>exigua</i>	22	<i>Drunella</i>	13
— <i>exiguus</i>	22	<i>Eatonella</i>	33
— <i>parvula</i>	22	<i>eatoni</i> , <i>Ecdyonurus</i>	19
— <i>qadrica</i>	22	<i>Eatonia</i>	31
— <i>qadricus</i>	22	— <i>khyberensis</i>	31
— <i>quadrii</i>	22	<i>Eatonigenia</i>	15
— <i>signata</i>	22	— <i>indica</i>	15
<i>Cinygmina</i>	18	— <i>trirama</i>	15
— <i>assamensis</i>	18	<i>Ecdyonurus</i>	19
<i>Cinygmoides</i>	19	— <i>annulifer</i>	19
<i>Cloe</i>	7	— <i>bengalensis</i>	19
— <i>consuetus</i>	5	— <i>eatoni</i>	19
— <i>marginalis</i>	9	— <i>indicus</i>	19
— <i>signata</i>	22	— <i>islamabadensis</i>	19
— <i>solidus</i>	7	— <i>islamabadicus</i>	19
— <i>tristis</i>	14	— <i>islamabadensis</i>	19
<i>Cloeon</i>	7	— <i>subfuscus</i>	19
— <i>apicatum</i>	8	<i>Ecdyurus</i>	19
— <i>bengalense</i>	8	— <i>annulifer</i>	19
— <i>bicolor</i>	8	<i>Eopolymitarcys</i>	28
— <i>bimaculatum</i>	10	<i>Epeorus</i>	20
— <i>debilis</i>	11	— <i>lahaulensis</i>	20
— <i>dipterum</i>	8	— <i>psi</i>	20
— <i>gillicaⁿ</i>	8	<i>Ephemera</i>	15
— <i>gilliesi</i>	8	— (<i>Aethephemera</i>)	18
— <i>inscriptum</i>	8	— <i>annandalei</i>	15
— <i>karachiensis</i>	8	— <i>brunnea</i>	15
— <i>kashmiri</i>	8	— <i>censors</i>	16
— <i>kimminsi</i>	9	— <i>diffusa</i>	16
— <i>marginale</i>	9	— <i>expectans</i>	16

— <i>exspectans</i>	16	<i>fulvata</i> , <i>Ephemera</i>	16
— <i>fasciata</i>	17	<i>gillican</i> , <i>Cloeon</i>	8
— <i>fulvata</i>	16	<i>gilliesi</i> , <i>Cloeon</i>	8
— <i>immaculata</i>	16	<i>gilliesi</i> , <i>Ephemerella</i>	14
— <i>nadinae</i>	18	<i>Gilliesia</i>	23
— <i>pramodi</i>	17	— <i>hindustanica</i>	23
— <i>pulcherrima</i>	17	<i>greeni</i> , <i>Anagenesia</i>	29
— <i>remensa</i>	17	<i>Habrophlebiodes semicastanea</i>	26
— <i>soanensis</i>	17	<i>Hagenulus</i>	23
— <i>soanesis</i>	17	— <i>monstratus</i>	23
— <i>soanica</i>	17	<i>harveyi</i> , <i>Procloeon</i>	11
— <i>striatus</i>	15	<i>hazaraensis</i> , <i>Heptagenia</i>	20
— <i>supposita</i>	17	<i>Heptagenia</i>	19
— <i>vedana</i>	16	— <i>annulifera</i>	19
— <i>vedans</i>	16	—(<i>Epeorus</i>)	19
<i>Ephemerella</i>	12	— <i>hazaraensis</i>	20
— (<i>Acerella</i>)	13	— <i>nubila</i>	20
— <i>coheri</i>	13	— <i>solangensis</i>	20
— (<i>Crinitella</i>)	13	<i>Hexagenia indica</i>	15
— (<i>Drunella</i>)	13	<i>himalayana</i> , <i>Baetis</i>	5
— (<i>Eatonella</i>)	13	<i>hindustanica</i> , <i>Gilliesia</i>	23
— <i>gilliesi</i>	14	<i>hindustanicus</i> , <i>Thraulus</i>	23
— <i>indica</i>	14	<i>hutchinsoni</i> , <i>Ororotsia</i>	20
— <i>nasiri</i>	13	<i>hyalina</i> , <i>Notophlebia</i>	25
— <i>nepalica</i>	14	<i>Ichthybotus</i>	21
— <i>swatensis</i>	13	— <i>dodecus</i>	21
— (<i>Torleya</i>)	14	<i>immaculata</i> , <i>Ephemera</i>	16
— <i>traverae</i>	14	<i>Indialis</i>	23
— <i>uenoi</i>	13	— <i>badia</i>	23
— <i>undatella</i>	13	— <i>rossi</i>	23
— <i>wahensis</i>	13	<i>indica</i> , <i>Eatonigenia</i>	15
<i>Ephoron</i>	28	<i>indica</i> , <i>Ephemerella</i>	14
— <i>annandalei</i>	29	<i>indica</i> , <i>Hexagenia</i>	15
— <i>birmanus</i>	29	<i>indica</i> , <i>Nathanella</i>	25
— <i>indicus</i>	29	<i>indica</i> , <i>Palingenia</i>	29
<i>Eucharidis</i>	22	<i>indicum</i> , <i>Prosopistoma</i>	30
<i>Euthraulus</i>	30	<i>indicus</i> , <i>Ecdyonurus</i>	19
— <i>parvulus</i>	22	<i>indicus</i> , <i>Ephoron</i>	29
<i>Euthyplocia</i>	22	<i>indicus</i> , <i>Polymitarcys</i>	29
— <i>punensis</i>	18	<i>inopinum</i> , <i>Pseudocloeon</i>	11
<i>exigua</i> , <i>Choroterpes</i>	18	<i>inscriptum</i> , <i>Cloeon</i>	8
<i>exiguus</i> , <i>Choroterpes</i>	22	<i>Isca</i>	23
<i>expectans</i> , <i>Ephemera</i>	16	— <i>purpurea</i>	24
<i>exspectans</i> , <i>Ephemera</i>	16	— <i>serendiba</i>	24
<i>exspectans</i> , <i>Potamanthus</i>	16	—(<i>Tanycola</i>)	24
<i>fasciata</i> , <i>Atalophlebia</i>	24	<i>islamabadensis</i> , <i>Ecdyonurus</i>	19
<i>fasciata</i> , <i>Ephemera</i>	17	<i>islamabadicus</i> , <i>Ecdyonurus</i>	19
<i>fasciata</i> , <i>Kimminsula</i>	24	<i>islambadensis</i> , <i>Ecdyonurus</i>	19
<i>fasciatus</i> , <i>Potamanthus</i>	24	<i>Isonychia</i>	31
<i>feminalis</i> , <i>Baetis</i>	5	— <i>khyberensis</i>	31
<i>femoralis</i> , <i>Atalophlebia</i>	21	<i>jacobsoni</i> , <i>Neurocaensis</i>	31
<i>femoralis</i> , <i>Leptophlebia</i>	21	<i>jacobsoni</i> , <i>Tricorythus</i>	31
<i>femoralis</i> , <i>Potamanthus</i>	21	<i>Jolia</i>	31
<i>festivus</i> , <i>Baetis</i>	5	<i>Kageronia</i>	20
<i>fluitans</i> , <i>Baetis</i>	5	<i>karachiensis</i> , <i>Cloeon</i>	8

kashmirensis, Oligoneura	26	nubila, Heptagenia	20
kashmirensis, Oligoneuriella	26	Oligoneura kashmirensis	62
kashmiri, Cloeon	8	Oligoneuriella	26
khyberensis, Eatonia	31	—kashmirensis	26
khyberensis, Isonychia	31	Ordella	11
kimminsii, Caenis	12	Ororotsia	20
kimminsii, Cloeon	9	—hutchinsoni	20
Kimminsula	24	Oxycypha	11
—annulata	24	Paleoameletus	31
—fasciata	24	—primitivus	31
—taprobanes	24	Palingenia (Anagenesia)	27
ladakae, Baetiella	4	—annulifera	19
lahaulensis, Baetis	5	—indica	29
lahaulensis, Epeorus	20	—lata	27
lata, Anagenesia	27	—minor	27
lata, Palingenia	27	—robusta	28
Leptophlebia annulata	24	palmyrae, Baetis	6
—femoralis	21	parvula, Choroterpes	22
—signata	22	parvulus, Euthraulus	22
—taprobanes	25	parvulus, Thraululus	22
—tristis	14	perpusilla, Caenis	12
lieftincki, Prosopistoma	30	picea, Caenis	12
longistylus, Baetis	6	piscina, Caenis	12
lotona, Anagenesia	27	Polymitarcys	28
macani, Baetis	6	—annandalei	29
macanis Beatis	6	—australis	29
maeani, Baetis	6	—birmanus	29
major, Teloganodes	14	—indicus	29
marginale, Cloeon	9	posticus, Rheonanthus	30
marginalis, Cloe	9	posticus, Rhœnanthus	30
marginalis Cloeon	9	Potamanthellus	26
marginata, Chloeon	9	—amabilis	26
marhieus, Thraulodes	25	Potamanthus	29
Masharikella	26	—annulatus	24
—semicastanea	26	—exspectans	16
megheanis, Baetis	6	—fasciatus	24
meecheani, Baetis	6	—femoralis	21
meeheanis, Baetis	6	—subcostalis	30
Megaglena	25	Povilla	28
—brincki	25	—corporaali	28
minor, Anagenesia	27	pramodi, Ephemera	17
minor, Palingenia	27	primitivus, Ameletus	31
monstratus, Hagenulus	23	primitivus, Paleoameletus	31
nadinæ, Ephemera	18	Procloeon	10
nasiri, Ephemerella	13	—bimaculatum	10
Nathanella	25	—debilis	11
—indica	25	—harveyi	11
Neocloeon	7	Prosopistoma	30
nepalica, Ephemerella	14	—indicum	30
Neurocaenis	31	—lieftincki	30
—jacobsoni	31	Pseudocloeon	11
nigrostriata, Caenis	12	—inopinum	11
Nirvius	15	—rubellum	11
Notophlebia	25	psi, Epeorus	20
—hyalina	25	pulchella, Cloeon	9

pulchellum, <i>Cloeon</i>	9	<i>srinagari</i> , <i>Caenis</i>	12
pulcherrima, <i>Ephemera</i>	17	<i>striatus</i> , <i>Ephemera</i>	15
punensis, <i>Euthyploca</i>	18	<i>subcostalis</i> , <i>Potamanthus</i>	30
punjabensis, <i>Baetis</i>	6	<i>subfuscus</i> , <i>Ecdyonurus</i>	19
purpurea, <i>Isca</i>	24	<i>supposita</i> , <i>Ephemera</i>	17
quadrica, <i>Choroterpes</i>	22	<i>swatensis</i> , <i>Ephemerella</i>	13
quadrii, <i>Choroterpes</i>	22	<i>taeniatum</i> , <i>Cloeon</i>	10
quadrii, <i>Choroterpes</i>	22	<i>taeniolatum</i> , <i>Cloeon</i>	10
remensa, <i>Ephemera</i>	17	<i>Tanycola</i>	24
Rheonanthus posticus	30	<i>taprobanes</i> , <i>Atalophlebia</i>	25
Rhithrogena	20	<i>taprobanes</i> , <i>Baetis</i>	24
—basiri	21	<i>taprobanes</i> , <i>Kimminsula</i>	24
Rhoenanthodes	26	<i>taprobanes</i> , <i>Leptophlebia</i>	25
—amabilis	26	<i>Teloganodes</i>	14
Rhoenanthus	30	—dentata	14
—amabilis	26	—major	14
—posticus	30	—tristis	14
robusta, <i>Anagenesia</i>	28	<i>Thraulodes</i>	25
robusta, <i>Palingenia</i>	28	—marhieus	25
rossi, <i>Indialis</i>	23	<i>Thraululus</i>	22
rubellum, <i>Pseudocloeon</i>	11	—parvulus	22
scanesis, <i>Ephemera</i>	17	<i>Thraulus</i>	26
semicastanea, <i>Habrophlebiodes</i>	26	—hindustanicus	23
semicastanea, <i>Masharikella</i>	26	—semicastaneus	26
semicastaneus, <i>Thraulus</i>	26	—signatus	22
septemmens, <i>Baetis</i>	6	<i>thurbonis</i> , <i>Baetis</i>	7
seragruis, <i>Baetis</i>	6	<i>tigroides</i> , <i>Baetis</i>	7
serendiba, <i>Isca</i>	24	<i>Torleya</i>	14
siccum, <i>Cloeon</i>	9	<i>traversae</i> , <i>Ephemerella</i>	14
signata, <i>Choroterpes</i>	22	<i>Tricorythus jacobsoni</i>	31
signata, <i>Cloe</i>	22	<i>trirama</i> , <i>Eatonigenia</i>	15
signata, <i>Leptophlebia</i>	22	<i>tristis</i> , <i>Cloe</i>	14
signatus, <i>Thraulus</i>	22	<i>tristis</i> , <i>Leptophlebia</i>	14
simplex, <i>Baetis</i>	6	<i>tristis</i> , <i>Teloganodes</i>	14
soanensis, <i>Ephemera</i>	17	<i>uenoi</i> , <i>Ephemerella</i>	13
soanica, <i>Ephemera</i>	17	<i>undatella</i> , <i>Ephemerella</i>	13
solangensis, <i>Afronurus</i>	18	<i>variegatum</i> , <i>Cloeon</i>	10
solangensis, <i>Baetis</i>	6	<i>vedana</i> , <i>Ephemera</i>	16
solangensis, <i>Heptagenia</i>	20	<i>vedans</i> , <i>Ephemera</i>	16
solidus, <i>Baetis</i>	7	<i>viridis</i> , <i>Cloeon</i>	9
solidus, <i>Cloe</i>	7	<i>wahensis</i> , <i>Ephemerella</i>	13
solitarius, <i>Baetis</i>	7		