

# Calopterygoidea of the World:

A synonymic list of extant damselfly species of the superfamily

Calopterygoidea (*sensu lato*) (Odonata: Zygoptera)

(First edition – 1 January 2016)

**Matti Hämäläinen**

Research Associate of the Naturalis Biodiversity Center (Leiden, the Netherlands)

matti.hamalainen@helsinki.fi

libellago@gmail.com



*Neurobasis australis* Selys, 1897

Artwork by A.G. Orr (2006)

Privately published by the author

Espoo, Finland

2016

## Contents

Abstract .....	2
Introduction .....	3
Acknowledgements .....	5
References .....	5
Checklist .....	7
Taxa placed in traditional ‘calopterygoid’ families, excluding ‘the amphipterygids’	
– Calopterygidae .....	7
– Chlorocyphidae .....	17
– Dicteriadidae .....	23
– Euphaeidae .....	24
– Polythoridae .....	27
Taxa formerly placed in Amphipterygidae ( <i>s. l.</i> )	
– Amphipterygidae .....	29
– Devadattidae .....	29
– Lestoideidae .....	29
– Pentaplebiidae .....	30
– Philogangidae .....	30
– Rimanelidae .....	30
Taxa formerly placed in Megapodagrionidae ( <i>s. l.</i> )	
– Argiolestidae .....	31
– Heteragrionidae .....	34
– Hypolestidae .....	35
– Megapodagrionidae .....	36
– Philogeniidae .....	36
– Philosinidae .....	37
– Pseudolestidae .....	38
– Thaumtoneuridae .....	38
– <i>Incertae sedis</i> .....	38

## Abstract

A list of all available (on 1 January 2016) genus- and species-group names of the extant Calopterygoidea (*sensu lato*) of the world, including all synonymic names and homonyms, is presented. The list includes a total of 152 genus-group names, of which 113 are presently in use, the remaining being either synonyms or preoccupied names. A total of 1147 available species-group names is listed, of which 265 are synonymic names (incl. homonyms). Altogether 831 taxa are listed as valid species and 51 taxa as subspecies. Of the 831 valid species, 503 belong to the traditional calopterygoid families (‘Caloptera’ - clusters 1 and 2 in this list) and 328 to the ‘Megapod’ families (cluster 3 in this list).

## Introduction

Recently, molecular studies have necessitated many radical changes in the higher classification, traditionally based largely on wing venation, of the order Odonata (dragonflies and damselflies). Since the ‘megapodagrionid’ damselflies do not belong to the monophyletic superfamilies Lestoidea and Coenagrionoidea, they have been for the present transferred to the superfamily Calopterygoidea by Dijkstra & al. (2013), although Calopterygoidea in the broadened sense may prove paraphyletic necessitating further reclassification. Dijkstra & al. (2014) split the former families Megapodagrionidae and Amphipterygidae into several distinct families.

My aim is to present an updated list of all species and subspecies of the Calopterygoidea of the world, including all available synonymic names and correct citations of authorship and year. The list follows the new family grouping proposed by Dijkstra & al. (2014). Eight groups (with 14 genera) from the former family Megapodagrionidae (*sensu lato*) remain unplaced, being ranked as ‘*incertae sedis*’. Doubtless further molecular studies will resolve their status, and probably indicate a need for new families in some cases.

The list includes several groups in which the taxonomy is still poorly known and in need of revision. These ideally should include the results of molecular analysis, preferably as applied synthetically with traditional taxonomic methods. One of these poorly known groups is the notoriously difficult palaeartic *Calopteryx splendens*-complex. There is no general agreement yet whether there is only one, or two or more good species in this group. All available names are listed here, but the taxonomic validity of many of the subspecies of *C. splendens* still remains open. The continental Asian species of the calopterygid genus *Mnais* are also still poorly known, although fortunately, in this group the number of named taxa is rather small. As shown by the molecular studies by Dijkstra & al. (2014), the generic classification of the Oriental and Australasian members of the family Chlorocyphidae will inevitably undergo radical changes. There are also many questions to be resolved at the species level. With one or two exceptions these are not discussed in the annotations of this list.

In compiling this list I have used many literature sources; only a small selection is included in the reference list, which just cites the printed publications mentioned in this introductory text and in the notes within the checklist. Two sources, providing reference information on the original publications where each taxon was described, were especially valuable, namely:

– *Catalogue of the family-group, genus-group and species-group names of the Odonata of the world (third edition)* by Charles A. Bridges (1994), which is available at three websites

<http://archive.org/details/catalogueoffamil00bridg>

<http://www.biodiversitylibrary.org/bibliography/15291#/summary>

[http://openlibrary.org/books/OL24779634M/Catalogue\\_of\\_the\\_family-group\\_genus-group\\_and\\_species-group\\_names\\_of\\_the\\_Odonata\\_of\\_the\\_world](http://openlibrary.org/books/OL24779634M/Catalogue_of_the_family-group_genus-group_and_species-group_names_of_the_Odonata_of_the_world)

– Jan van Tol’s Odonata.Info - database, at

<http://www.odonata.info> (This website is currently unavailable due to maintenance).

The original names and combinations of all taxa were checked by myself from the original descriptions. In establishing the present taxonomic status of the taxa, much more literature had to be consulted. As regards to the taxonomic status of the New World species (which amount about one third of full species treated here) I have followed the opinions given in the accurate and updated ‘*A synonymic list of the New World Odonata*’ by Rosser W. Garrison & Natalia von Ellenrieder (2015), which is available at

<http://www.odonatacentral.org/views/pdfs/NWOL.pdf>

As regards to the taxonomic status Old World species in the ‘megapod’ families (Cluster 3 in the present

list), the available checklists and many publications, including the recent list of species in family Argiolestidae by Kalkman and Theischinger (2013), were used. For the African species of Calopterygidae and Chlorocyphidae several recent publications by K-D. B. Dijkstra proved especially useful; I have also received unpublished information from him. Regarding the status of several Palearctic *Calopteryx* taxa I have followed both published and unpublished opinions of Henri J. Dumont and Asmus Schröter. As regards to the taxonomic status of the Oriental and Australasian species of the traditional calopterygoid families, I have also made independent investigations. A few synonymies (or possible synonymies) and changes in taxonomic status, still waiting to be confirmed and formally published, are presented in this checklist and provided with brief notes.

In this list the families are grouped into three clusters within which order is alphabetical at all hierarchical levels. These groupings are strictly for convenience and do not indicate any implied phylogenetic relationships among families.

In this list only a few families are divided into subfamilies. In Calopterygidae (following the reasoning given in Dijkstra & al. 2013, 2014) two subfamilies, Calopteryginae and Hetaerininae, are recognized. Argiolestidae is divided into two subfamilies: Argiolestinae and Podolestinae, following Kalkman & Theischinger (2013). In Lestoideidae two subfamilies are recognized (Dijkstra & al. 2014). In Chlorocyphidae the African genera are presented separately (in a subfamily Chlorocyphinae), but the Asian and Australasian genera are not yet placed to subfamilies due to reasons given by Dijkstra & al. (2014).

I have tried to keep the structure of this checklist as simple as possible.

- Within each family (or subfamily in those cases where subfamilies are recognized) the genera are listed in alphabetic order.
- Within each genus the species are listed in alphabetic order.
- Subspecific names are indicated by an m-dash in front of the trinomial name. The nominate subspecies is given first, the others in alphabetic order.
- The original name is given in square brackets after the present name in all cases where the original combination, taxonomic status or spelling differs from the presently used one.
- Synonyms are listed in chronological order using the original genus combination and spelling. Uncertain synonymies are preceded by a question mark and the species name is given in the presently used binomial combination.
- The original names are given as trinomials when it is clear from the name or text that a subspecific name was introduced; the original terms ‘ssp.’, ‘race’, or ‘var.’ are not included in the original trinomial name. For more details, see below under ‘Notes on Selysian binomials’.
- Type species of the genus is marked with an asterisk after the relevant name in the species list. In the case of synonymic genus-group names, the name of the type species preceded by an asterisk is given in square brackets after the genus name.
- Infrasubspecific names and names considered as ‘*nomina nuda*’ are not included. A few of these names are discussed in the separate notes; these include mainly names which appear in other recent world catalogues as available names.

**Notes on Selysian binomials.** In his ‘Synopsis’ (1853–1886) Edmond de Selys Longchamps used binomial names, in which the genus-group name in fact represents the subgenus-name in his classification. This poses a problem as regards to the use of brackets. For instance, Selys originally introduced the binomial ‘*Sapho bicolor*’ for a species, which in his system belonged to a new subgenus *Sapho* in his new genus *Echo*. I follow the practice used by most authors, and list this species as ‘*Sapho bicolor* Selys, 1853’ and not as ‘*Sapho bicolor* (Selys, 1853)’. Selys introduced many species-group taxa as ‘Race’ or as a possible race: ‘?Race’ or ‘Race de ... ?’. For instance *Euphaea subcostalis* Selys, 1879 was first introduced as ‘Race d’ *E. tricolor*?’ Therefore in the present list the original species name is given in the form ‘[*Euphaea (?tricolor) subcostalis*]’. In names authored by de Selys Longchamps, the author name is given in an abbreviated way ‘Selys’ following the traditional practice used by nearly all odonatologists.

This list includes a total of 152 genus-group names, of which 113 are presently in use, the remaining being either synonyms or preoccupied names. A total of 1147 available species-group names is listed, of which 265 are synonymic names (incl. homonyms). Altogether 831 taxa are listed as valid species and 51 taxa as subspecies, but undoubtedly many of the latter (especially in the *Calopteryx splendens*-complex) will eventually be downgraded to synonyms and some of them (mainly in Chlorocyphidae) may be upgraded to full species. Of the 831 valid species, 503 belong to the traditional calopterygoid families ('Caloptera' - clusters 1 and 2 in this list) and 328 to the 'Megapod' families (cluster 3 in this list).

### Acknowledgements

I am grateful to Dr Rosser Garrison, Dr Jan van Tol, Dr Albert Orr, Prof. Henri Dumont, Dr Klaas-Douwe Dijkstra, Dr Vincent Kalkman and Asmus Schröter, who have seen and commented on the draft version of the manuscript or parts of it. In some special matters I have received help also from Dr Heinrich Fliedner, Dr Akihiko Sasamoto, Dr K. A. Subramanian, Dr Hao-miao Zhang and Dr Xin Yu. Many other colleagues have provided various help for my taxonomic studies on these insects during the last 30 years. Dr Albert Orr allowed me to use his artwork to ornament this list. Dr Sami Karjalainen helped in technical matters.

### References

- Asahina, S. 1976. A revisional study of the genus *Mnais* (Odonata, Calopterygidae). VIII. A proposed taxonomy of Japanese *Mnais*. *Tombo - Acta Odonatologica* 19: 2–16.
- Bridges, C.A. 1994. *Catalogue of the family-group, genus-group and species-group names of the Odonata of the world (third edition)*. Privately published, Urbana, Illinois.
- Dijkstra, K.-D.B. 2007. The name-bearing types of Odonata held in the Natural History Museum of Zimbabwe, with systematic notes on Afrotropical taxa. Part 2: Zygoptera and descriptions of new species. *International Journal of Odonatology* 10: 137–170.
- Dijkstra, K.-D.B., G. Bechly, S.M. Bybee, R.A. Dow, H.J. Dumont, G. Fleck, R.W. Garrison, M. Hämäläinen, V.J. Kalkman, H. Karube, M.L. May, A.G. Orr, D.R. Paulson, A.C. Rehn, G. Theischinger, J.W.H. Trueman, J. van Tol, N. von Ellenrieder & J. Ware. 2013. The classification and diversity of dragonflies and damselflies (Odonata). In: Zhang, Z.-Q. (Editor). *Animal biodiversity: An outline of higher-level classification and survey of taxonomic richness*. (Addenda 2013). *Zootaxa* 3703: 36–45.
- Dijkstra, K.-D.B., V.J. Kalkman, R.A. Dow, F.R. Stokvis & J. van Tol. 2014. Redefining the damselfly families: a comprehensive molecular phylogeny of Zygoptera (Odonata). *Systematic Entomology* 39(1): 68–96. [The unpaginated online version appeared on 26 August 2013 and the printed version in January 2014. Since the former must be considered as an unpublished preprint, the correct year for the new taxa introduced is 2014.]
- Dumont, H.J. 1977. A review of the dragonfly fauna of Turkey and adjacent Mediterranean islands (Insecta Odonata). *Bulletin et Annales de la Société royale belge d'Entomologie* 113: 119–171.
- Dumont, H.J., A. Demirsoy & D. Verschuren. 1987. Breaking the *Calopteryx*-bottleneck: taxonomy and range of *Calopteryx splendens waterstoni* Schneider, 1984 and of *C. splendens tschaldirica* Barteneff, 1909 (Zygoptera: Calopterygidae). *Odonatologica* 16: 239–247.
- He, S.-x. 2007. *Photo atlas of the usual China dragonflies*. Zhejiang University Press. (In Chinese).
- Heidari, H. & H.J. Dumont. 2002. An annotated check-list of the Odonata of Iran. *Zoology in the Middle East* 26: 133–150.
- Hämäläinen, M. 1991. The Philippine genus *Risioenemis* Cowley (Zygoptera: Platycnemididae). 1. Subgenus *Risioenemis*. *Odonatologica* 20: 151–194.

- Hämäläinen, M. 1997. Forgotten names in the nomenclature of European *Calopteryx* species (Odonata: Calopterygidae). *Opuscula zoologica fluminensia* 158: 1–5.
- Hämäläinen, M. 2013. Description of *Bayadera kinnara* spec. nov. from Burma, with taxonomic notes on its congeners (Odonata: Euphaeidae). *Tombo – Acta Odonatologica Japonica* 55: 45–49.
- Kalkman, V.J. & G. Theischinger. 2013. Generic revision of Argiolestidae (Odonata), with four new genera. *International Journal of Odonatology* 16: 1–52.
- Karjalainen, S. & M. Hämäläinen. 2013. *Neidonkorennot – Solisevien vetten lentävät jalokivet / Demoiselle damselflies – Winged jewels of silvery streams*. Caloptera Publishing, Helsinki. (Bilingual, Finnish and English).
- Lohmann, H. (1992). Amphiadriatic faunal elements in the genera *Calopteryx* Leach and *Cordulegaster* Leach in southern Italy (Zygoptera: Calopterygidae; Anisoptera: Cordulegastridae). *Notulae odonatologicae* 3(9): 152-153.
- Maibach, A. 1987. Révision systématique du genre *Calopteryx* Leach pour l'Europe occidentale (Zygoptera: Calopterygidae). 3. Révision systématique, étude bibliographique, désignation des types et clé de détermination. *Odonatologica* 16: 145-174.
- Mitra, A. & P. Thinley. 2006. A report on Odonata diversity of Bumdeling Wildlife Sanctuary, Trashi Yangtse, Eastern Bhutan. A report submitted to the Ministry of Agriculture, Thimphu. February, 2006. 58 pp.
- Pinhey, E. 1967. African Clorocyphidae (Odonata). *Journal of the Entomological Society of Southern Africa* 29: 161–197.
- Poulton, E.B. 1929. The epigamic display of a male dragonfly, *Libellago caligata*, Selys, observed by Dr. D.G.H. Carpenter in Toro, Uganda. *The Proceedings of the Entomological Society of London* 3: 38–40.
- Sadeghi, S. & H.J. Dumont. 2014. Variation in the shape of the wings and taxonomy of Eurasian populations of the *Calopteryx splendens* complex (Odonata: Calopterygidae). *European Journal of Entomology* 111: 575–583.
- Sadeghi, S., T. Kyndt & H.J. Dumont. 2010. Genetic diversity, population structure and taxonomy of *Calopteryx splendens* (Odonata: Calopterygidae): An AFLP analysis. *European Journal of Entomology* 107: 137–146.
- Schmidt, E. 2006. Ein dunkelfügliges Weibchen von *Calopteryx splendens* bei Wesel/Niederrhein mit Diskussion der östlichen ssp. *ancilla* (Selys, 1853). *Beiträge zur Entomologie* 56: 422–432.
- Schneider, W. 1986. *Systematik und Zoogeographie der Odonata der Levante unter besonderer Berücksichtigung der Zygoptera*. Dissertation, Fachbereich Biologie der Johannes Gutenberg-Universität in Mainz.
- Schröter, A., M. Seehausen, B. Kunz, A. Günther, T. Schneider & R. Jödicke. 2015. Update of the Odonata fauna of Georgia, southern Caucasus ecoregion. *Odonatologica* 44: 279-342.
- St. Quentin D. 1965. Zur Odonatenfauna Anatoliens und angrenzenden Gebiete. *Annalen des naturhistorischen Museums zu Wien* 68: 531-552.
- Zhang, H-m., M. Hämäläinen & X-l.Tong. 2010. Description of *Indocypha catopta* sp.nov. from Guizhou, China (Odonata: Chlorocyphidae). *International Journal of Odonatology* 13: 231-240, pl. III excl.

## Checklist

Superfamily **Calopterygoidea** Selys, 1850Cluster 1: Taxa placed in traditional 'calopterygoid' families, excluding 'the amphipterygids'Family **Calopterygidae** Selys, 1850Subfamily **Calopteryginae** Selys, 1850**Archineura** Kirby, 1894

Syn. *Leucopteryx* Fraser, 1933 (preoccupied name) [\* *hetaerinoidea*]

*Archineura hetaerinoidea* (Fraser, 1933) [*Leucopteryx hetaerinoidea*]

*Archineura incarnata* (Karsch, 1892) [*Echo incarnata*] \*

Syn. *Archineura basilactea* Kirby, 1894

*Archineura maxima* (Martin, 1904) [*Echo maxima*]

**Atrocalopteryx** Dumont, Vanfleteren, De Jonckheere & Weekers, 2005

*Atrocalopteryx atrata* (Selys, 1853) [*Calopteryx atrata*] \*

Syn. *Calopteryx grandaeva* Selys, 1853

Syn. *Calopteryx smaragdina* Selys, 1853

Syn. *Calopteryx longipennis* Selys, 1854

Syn. *Vestalis tristis* Navás, 1932

*Atrocalopteryx atrocyana* (Fraser 1935) [*Agrion atrocyana*]

*Atrocalopteryx auco* Hämäläinen, 2014

*Atrocalopteryx coomani* (Fraser, 1935) [*Agrion coomani*]

*Atrocalopteryx fasciata* Yang, Hämäläinen & Zhang, 2014

*Atrocalopteryx laosica* (Fraser, 1933) [*Calopteryx laosica*]

*Atrocalopteryx melli* (Ris, 1912) [*Calopteryx melli*]

– *Atrocalopteryx melli melli* (Ris, 1912) [*Calopteryx melli*]

– *Atrocalopteryx melli orohainani* Guan, Han & Dumont, 2012

*Atrocalopteryx oberthueri* (McLachlan, 1894) [*Calopteryx oberthüri*]

Syn. *Agrion grahami* Needham, 1930

**Caliphaea** Hagen in Selys, 1859

Syn. *Notholestes* MacLachlan, 1887 [\* *elwesi*]

*Caliphaea angka* Hämäläinen, 2003

*Caliphaea confusa* Hagen in Selys, 1859 \*

Syn. *Notholestes elwesi* MacLachlan, 1887

*Caliphaea consimilis* MacLachlan, 1894

*Caliphaea nitens* Navás, 1934 **Note 1**

*Caliphaea thailandica* Asahina, 1976

-----  
**Note 1.** He (2007) described and illustrated "*Mnais yahangensis* sp. nov." from China. However, since the holotype (or syntypes) were not fixed (Article 16.4), this name is not available for zoological nomenclature, neither are any other new names in this book. From the description, photographs and provenance, this 'new species' evidently refers to *Caliphaea nitens*.

**Calopteryx** Leach, 1815

- Syn. *Agrion* Fabricius, 1775 [\* *virgo*]  
 Syn. *Sylphis* Hagen in Selys, 1853 [\* *elegans*]  
 Syn. *Anaciagrion* Kennedy, 1920 [\* *cornelia*]

*Calopteryx aequabilis* Say, 1840 [*Calepteryx aequabilis*]

- Syn. *Calopteryx hudsonica* Hagen, 1877  
 Syn. *Calopteryx aequabilis yakima* Hagen, 1889  
 Syn. *Agrion aequabile coloradicum* Cockerell, 1913  
 Syn. *Agrion aequabile californicum* Kennedy, 1917

*Calopteryx amata* Hagen, 1889*Calopteryx angustipennis* (Selys, 1853) [*Sylphis angustipennis*]

- Syn. *Sylphis elegans* Hagen in Selys, 1853

*Calopteryx cornelia* Selys, 1853*Calopteryx dimidiata* Burmeister, 1839

- Syn. *Calopteryx apicalis* Burmeister, 1839  
 Syn. *Calopteryx cognata* Rambur, 1842

*Calopteryx exul* Selys, 1853*Calopteryx haemorrhoidalis* (Vander Linden 1825) [*Agrion haemorrhoidalis*]

- Syn. *Calopteryx (haemorrhoidalis) papyreti* Selys, 1854  
 Syn. *Calopteryx haemorrhoidalis occasi* Conci & Nielsen, 1956  
 Syn. *Calopteryx haemorrhoidalis asturica* Ocharan, 1983  
 Syn. *Calopteryx haemorrhoidalis almogravensis* Hartung, 1996

*Calopteryx hyalina* Martin, 1909 [*Calopteryx splendens hyalina*]*Calopteryx japonica* Selys, 1869

- *Calopteryx japonica japonica* Selys, 1869  
 – *Calopteryx japonica altaica* Belyshev, 1955 [*Calopteryx vigro* (Sic!) *altaica*]

*Calopteryx maculata* (Palisot de Beauvois, 1807) [*Agrion maculata*]

- Syn. *Agrion virginica* Westwood in Drury, 1837  
 Syn. *Calopteryx holosericea* Burmeister, 1839  
 Syn. *Calopteryx materna* Say, 1840 [*Calepteryx materna*]  
 Syn. *Calopteryx opaca* Say, 1840 [*Calepteryx opaca*]  
 Syn. *Calopteryx papilionacea* Rambur, 1842  
 Syn. *Calopteryx maculata floridana* Huggins, 1927

*Calopteryx orientalis* Selys, 1887 [*Calopteryx (?splendens) orientalis*] **Note 2**

- Syn. *Calopteryx transcaspica* Bartenev, 1911  
 Syn. *Calopteryx splendens shachrudicus* Bartenev, 1916  
 Syn. *Calopteryx orientalis risi* Schmidt, 1954

*Calopteryx samarcandica* Bartenev, 1911 **Note 3**

- Syn. *Calopteryx unicolor* Bartenev, 1912  
 Syn. *Calopteryx maracandica* Bartenev, 1913

-----  
**Note 2.** According to Heidari & Dumont (2002) the taxa *transcaspica*, *shachrudicus* and *risi* represent hybrid populations between the narrow-banded *C. orientalis* and broad-banded *C. splendens intermedia*.

**Note 3.** The taxonomic status of *Calopteryx samarcandica* is uncertain. According to Heidari & Dumont (2002) and Henri J. Dumont (*in litt.*) it may belong to the *C. virgo* complex.



- Calopteryx splendens* (Harris, 1780) [*Libellula splendens*] **Note 4**
- *Calopteryx splendens splendens* (Harris, 1780) [*Libellula splendens*]  
     Syn. *Libellula ludovicea* Fourcroy, 1785  
     Syn. *Agrion[n] cellaris* Selys, 1831  
     Syn. *Agrion[n] virescens* Selys, 1831  
     Syn. *Agrion parthenias* Burmeister, 1839
  - *Calopteryx splendens amasina* Bartenev, 1912 [*Calopteryx amasina*] **Note 5**
  - *Calopteryx splendens ancilla* Hagen in Selys, 1853 **Note 6**  
     Syn. *Agrion parthenias* Charpentier, 1840 (homonym) **Note 7**  
     Syn. *Calopteryx splendens tuempeli* Scholz, 1908  
     Syn. *Calopteryx splendens johanseni* Belyshev, 1955
  - *Calopteryx splendens balcanica* Fudakowski, 1930
  - *Calopteryx splendens caprai* Conci in Conci & Nielsen, 1956 **Note 8**
  - *Calopteryx splendens cretensis* Pongracz, 1911
  - *Calopteryx splendens intermedia* Selys, 1887 **Note 9**  
     Syn. *Calopteryx intermedia persica* Bartenev, 1911  
     Syn. *Calopteryx intermedia cecilia* Bartenev, 1912  
     Syn. *Calopteryx splendens cartvelica* Bartenev, 1930  
     Syn. *Calopteryx splendens pseudosyriaca* Buchholz, 1955

-----

**Note 4.** There is no general agreement of the taxonomic status of various taxa in the widespread *C. splendens*-complex. In different publications many of the taxa are ranked either as good species or subspecies of *C. splendens*. In this list the taxa *hyalina*, *orientalis*, *syriaca* and *xanthostoma* are ranked as good species following the opinion of Henri J. Dumont (*in litt.*, 21 September 2013). The numerous putative subspecies of *C. splendens* are often identifiable only by the extent of the male wing band and by their geographic range. However, recent studies (f.i. Sadeghi & al., 2010) have shown that the genetic differences in various populations do not correspond with observed wing band variation. So, it is uncertain to what extent the wing bands can be used in the delineation of subspecies. Sadeghi & Dumont (2014) provides a hypothesis how the various *splendens* 'forms' have been developed. The taxonomic and nomenclatoric conclusions based on this paper and other recently published studies remain to be made. All available species-group names in the *C. splendens*-group are listed below, but the taxonomic status of some taxa still remains more or less open. The present list must be considered preliminary.

**Note 5.** The status of *amasina* as a separate subspecies is doubtful and its relationship with ssp. *mingrelica* and ssp. *ancilla* is in need of re-evaluation (Asmus Schröter, *in litt.*, 25 October 2015). The first doubt of the subspecific status of *amasina* was presented by St. Quentin (1965). Dumont (1977) listed *amasina* as a synonym of *C. splendens mingrelica*.

**Note 6.** *Calopteryx splendens ancilla*. The available subspecific species-group name *ancilla* has often incorrectly been used as the name for the andromorph female form of *C. splendens* [see Schmidt (2006) and Hämäläinen in Karjalainen & Hämäläinen (2013, p. 116-123)]. An old infrasubspecific name for this female form is: *fortuita* Walker, 1853 (see Hämäläinen, 1997). The name '*Calopteryx splendens faivreii* Lacroix, 1915', used as a subspecies name by various authors, is not available. It was originally introduced as '*Calopteryx splendens*, Harris; Var. ♀ *Faivreii*, nov.' for an andromorph female form from France. Therefore *faivreii* must be ranked as an infrasubspecific name without status under the Code.

**Note 7.** The species name *Agrion parthenias* Charpentier, 1840 represents a different subspecies from *Agrion parthenias* Burmeister, 1839, but as a homonym (of *parthenias* Burmeister, 1839) '*parthenias* Charpentier, 1840' is not available as the oldest name of this eastern subspecies; see Schmidt (2006).

**Note 8.** The status of *caprai* as a distinct subspecies is questionable and in need of re-evaluation. Ssp. *caprai* was introduced at a time when the taxonomic status of *ancilla* as a subspecies had been 'forgotten'; *ancilla* was even not discussed in the taxonomic revision by Maibach (1987). *Calopteryx splendens caprai* was synonymized with *C. splendens ancilla* by Lohmann (1992), but this has been ignored by later authors. According to Asmus Schröter (*in litt.*, 25 October 2015) the Swiss specimens of '*caprai*' are virtually identical to '*ancilla*' specimens from Belarus and Poland.

**Note 9.** According to Heidari & Dumont (2002) the taxa *persica* and *cecilia* represent hybrid populations between the broad-banded *C. splendens intermedia* and narrow-banded *C. orientalis*. The taxon *cartvelica* was synonymized with *C. splendens intermedia* by Schröter & al. (2015). According to Schneider (1986) the taxon *pseudosyriaca* represents hybrid populations between and *C. splendens intermedia* and *C. hyalina*.

- *Calopteryx splendens mingrelica* Selys, 1869 **Note 10**  
Syn. *Calopteryx splendens ciscaucasica* Bartenev, 1925
- *Calopteryx splendens njuja* Kosterin & Sivtseva, 2009
- *Calopteryx splendens taurica* Selys, 1853 [*Calopteryx (?splendens) taurica*]
- *Calopteryx splendens tschaldirica* Bartenev, 1909 **Note 11**  
Syn. *Agrion splendens erevanense* Akramowski, 1948
- *Calopteryx splendens waterstoni* Schneider, 1984 [*Calopteryx waterstoni*]
- Calopteryx syriaca* Rambur, 1842
- Calopteryx virgo* (Linnaeus, 1758) [*Libellula virgo*] \* **Note 12**
  - *Calopteryx virgo virgo* (Linnaeus, 1758) [*Libellula virgo*]  
Syn. *Libellula splendeo* Harris, 1780  
Syn. *Agrion nicaeensis* Risso, 1826  
Syn. *Agrion[n] cyaneus* Selys, 1831  
Syn. *Agrion[n] oeneus* Selys, 1831  
Syn. *Calepteryx anceps* Stephens, 1835  
Syn. *Calepteryx ludoviciana* Stephens, 1835  
Syn. *Agrion vesta* Charpentier, 1840  
Syn. *Calopteryx inornata* Selys, 1840  
Syn. *Calopteryx virgo britannica* Conci, 1952  
Syn. *Calopteryx virgo padana* Conci in Conci & Nielsen, 1956
  - *Calopteryx virgo festiva* (Brullé, 1832) [*Agrion festiva*] **Note 13**  
Syn. *Agrion colchicus* Von Eichwald, 1837
  - *Calopteryx virgo meridionalis* Selys, 1873  
Syn. *Calopteryx virgo occitanica* Walker, 1853 **Note 14**
- Calopteryx xanthostoma* (Charpentier, 1825) [*Agrion xanthostoma*]  
Syn. *Agrion splendens pfeifferi* Götz, 1923

-----

**Note 10.** *Calopteryx splendens mingrelica* is the oldest available name for Caucasian *Calopteryx* forms, and from nomenclatorial point of view this name has a priority when a taxonomic evaluation of the ‘hybrid’ populations of the *splendens*-group in Caucasus and in adjacent areas in Turkey is made. According to Asmus Schröter (*in litt.*, 25 October 2015) the taxon *ciscaucasica* is best treated as a synonym of *C. splendens mingrelica*.

**Note 11.** *Calopteryx splendens tschaldirica* is ranked as valid subspecies by Dumont & al. (1987) and Schröter & al. (2015). According to Asmus Schröter (*in litt.*, 25 October 2015) the taxon *erevanense* is best treated as a synonym of *C. splendens tschaldirica*.

**Note 12.** A number of infrasubspecific names have been introduced in the species *Calopteryx virgo* (Linnaeus, 1758), such as *violacea* Dziedzielewicz, 1902; *fusca* Valle, 1927; *pseudoneurobasis* St. Quentin, 1958; *pseudosplendens* St. Quentin, 1958.

**Note 13.** In some publications the trinomial ‘*Calopteryx virgo feminalis* Bartenev, 1910’ has recently been listed as a subspecies occurring in Northeastern Turkey and in Caucasus. However, since the name *feminalis* was originally given for a female form, Schröter & al. (2015) considered it as an infrasubspecific name of a female form of *C. virgo festiva*.

**Note 14.** *Calopteryx virgo occitanica* Walker, 1853. Hämäläinen (1997) pointed out the existence of a forgotten species-group name *occitanica*, which actually would be the first available name for the subspecies known as *C. virgo meridionalis*. However, he did not propose the change of the traditional name. Presently *occitanica* is ranked as senior synonym.

**Echo** Selys, 1853Syn. *Climacobasis* Laidlaw, 1902 [\* *lugens*]*Echo candens* Zhang, Hämäläinen & Cai, 2015*Echo margarita* Selys, 1853 \*Syn. *Echo margarita tripartita* Selys, 1879*Echo modesta* Laidlaw, 1902Syn. *Climacobasis lugens* Laidlaw, 1902*Echo perornata* Yu & Hämäläinen, 2012*Echo uniformis* Selys, 1879 [*Echo? uniformis*]Syn. *Echo iricolor* Krüger, 1898**Iridictyon** Needham & Fisher, 1940*Iridictyon myersi* Needham & Fisher, 1940 \**Iridictyon trebbau* Rácenis, 1968**Matrona** Selys, 1853(Subgenus **Matrona** Selys, 1853) [\* *basilaris*]*Matrona annina* Zhang & Hämäläinen, 2012*Matrona basilaris* Selys, 1853 \*Syn. *Matrona kricheldorffi* Karsch, 1892*Matrona cyanoptera* Hämäläinen & Yeh, 2000*Matrona japonica* Förster, 1897 [*Neurobasis (Matrona) basilaris japonica*]Syn. *Calopteryx okinawana* Matsumura, 1931*Matrona mazu* Yu, Xue & Hämäläinen in Yu, Xue, Hämäläinen, Liu & Bu, 2015*Matrona nigripectus* Selys, 1879(Subgenus **Divortia** Yu, Xue & Hämäläinen in Yu, Xue, Hämäläinen, Liu & Bu, 2015) [\* *oreades*]*Matrona corephaea* Hämäläinen, Yu & Zhang, 2011*Matrona oreades* Hämäläinen, Yu & Zhang, 2011*Matrona taoi* Phan & Hämäläinen, 2011**Matronoides** Förster, 1897*Matronoides cyaneipennis* Förster, 1897 \***Mnais** Selys, 1853 **Note 15***Mnais andersoni* McLachlan in Selys, 1873Syn. *Mnais earnshawi* Williamson, 1904*Mnais costalis* Selys, 1869 **Note 16**Syn. *Mnais strigata nawai* Yamamoto, 1956*Mnais gregoryi* Fraser, 1924Syn. *Mnais maclachlani* Fraser, 1924Syn. *Mnais semiopaca* May, 1935

-----

**Note 15.** The taxonomy of the continental Asian species of this genus is still largely unsettled. A new species, *Mnais leigonshanus* Zhou, 2007, described in an unpublished Master's thesis at Guizhou University (Guiyang, China) is not available for zoological nomenclature. This seems to belong to the *tenuis*-group. For an other unavailable name, *Mnais yahangensis* He, 2007, see Note 1.

**Note 16.** Several new infrasubspecific names were introduced in *Mnais costalis* Selys, 1869 by Asahina (1976) for different male and female colour forms of '*M. pruinosa costalis*' and '*M. pruinosa nawai*': *ogumai*, *sahoi*, *kadowakii*, *takedoi*, *edai*.

*Mnais icteroptera* Fraser, 1929 **Note 17**

*Mnais incolor* Martin, 1921

*Mnais mneme* Ris, 1916

Syn. *Mnais earnshawi thoracicus* May, 1935

*Mnais pruinosa* Selys, 1853 \* **Note 18**

Syn. *Mnais strigata* Hagen in Selys, 1853

Syn. *Sapho (Mnais) nigra* Selys, 1854

*Mnais tenuis* Oguma, 1913 **Note 19**

?Syn. *Mnais auripennis* Needham, 1930

?Syn. *Mnais decolorata* Bartenev, 1913

?Syn. *Mnais pieli* Navás, 1936

*Mnais yunosukei* (Asahina, 1990) [*Vestalis yunosukei*]

**Neurobasis** Selys, 1853

(Subgenus **Neurobasis** Selys, 1853) [\* *chinensis*]

*Neurobasis anumariae* Hämäläinen, 1989

*Neurobasis australis* Selys, 1897 [*Neurobasis chinensis australis*]

Syn. *Neurobasis (chinensis) australis paradisearum* Förster, 1898

Syn. *Neurobasis leopoldi* Fraser, 1932

– *Neurobasis australis australis* Selys, 1897 [*Neurobasis chinensis australis*]

– *Neurobasis australis misoolensis* Lieftinck, 1955

*Neurobasis awamena* Michalski, 2006

*Neurobasis chinensis* (Linnaeus, 1758) [*Libellula chinensis*] \*

Syn. *Agrion nobilitata* Fabricius, 1777

Syn. *Calopteryx disparilis* Rambur, 1842

*Neurobasis daviesi* Hämäläinen, 1993

*Neurobasis florida* (Hagen in Walker, 1853) [*Calopteryx sinensis* (Sic!) *florida*]

*Neurobasis ianthinipennis* Lieftinck, 1949

*Neurobasis kaupi* Brauer, 1867

Syn. *Neurobasis kaupi pavo* Lieftinck, 1955

*Neurobasis kimminsi* Lieftinck, 1955

*Neurobasis longipes* Hagen, 1887

*Neurobasis luzoniensis* Selys, 1879 [*Neurobasis (chinensis) kaupi luzoniensis*]

*Neurobasis subpicta* Hämäläinen, 1990 [*Neurobasis luzoniensis subpicta*]

(Subgenus **Sinobasis** Hämäläinen & Orr in Orr & Hämäläinen, 2007) [\* *anderssoni*]

*Neurobasis anderssoni* Sjöstedt, 1926

**Noguchiphaea** Asahina, 1976

*Noguchiphaea mattii* Do, 2008

*Noguchiphaea yoshikoeae* Asahina, 1976 \*

-----  
**Note 17.** The taxonomic status of *Mnais icteroptera* Fraser, 1929 is uncertain.

**Note 18.** The infrasubspecific names, *esakii* and *shirozui*, were introduced in *Mnais pruinosa* Selys, 1853 by Asahina (1976).

**Note 19.** *Mnais tenuis*. The taxonomic status of the continental Asian taxa listed as possible synonyms of *M. tenuis* Oguma, 1913 is still uncertain.

**Phaon** Selys, 1853

Syn. *Prophaon* Fraser, 1941 (\* *camereunica* [Sic!]; misspelling of *camerunensis*)

*Phaon camerunensis* Sjöstedt, 1900

Syn. *Phaon fraseri* Pinhey, 1962

*Phaon iridipennis* (Burmeister, 1839) [*Calopteryx iridipennis*] \*

Syn. *Phaon iridipennis fuliginosus* Hagen in Selys, 1879

Syn. *Sapho (Phaon) iridipennis occidentalis* Förster, 1906

*Phaon rasoherinae* Fraser, 1949

**Psolodesmus** McLachlan, 1870

*Psolodesmus mandarinus* McLachlan, 1870 \* **Note 20**

?Syn. *Psolodesmus dorothea* Williamson, 1904

*Psolodesmus kuroiuae* Oguma, 1913 [*Psolodesmus dorothea kuroiuae*]

**Sapho** Selys, 1853

*Sapho bicolor* Selys, 1853

Syn. *Sapho superba* Sjöstedt, 1917

*Sapho ciliata* (Fabricius, 1781) [*Agrion ciliata*] \*

*Sapho fumosa* Longfield, 1932

Syn. *Sapho infumosa* (Fraser, 1951) [*Umma infumosa*] **Note 21**

*Sapho gloriosa* McLachlan in Selys, 1873 **Note 22**

*Sapho orichalcea* McLachlan, 1869

Syn. *Sapho venusta* Karsch, 1889

*Sapho puella* (Sjöstedt, 1917) [*Umma puella*]

**Umma** Kirby, 1890

Syn. *Cleis* Selys, 1853 (preoccupied name) [\* *cincta*]

*Umma cincta* (Hagen in Selys, 1853) [*Cleis cincta*] \*

*Umma declivium* Förster, 1906

*Umma electa* Longfield, 1933

Syn. *Umma distincta* Longfield, 1933

*Umma femina* Longfield, 1947

*Umma gumma* Dijkstra, Mézière & Kipping in Dijkstra, Kipping & Mézière, 2015

*Umma longistigma* (Selys, 1869) [*Sapho longistigma*]

*Umma mesostigma* (Selys, 1879) [*Cleis mesostigma*]

Syn. *Umma fuscomarginalis* Sjöstedt, 1900

?Syn. *Umma saphirina* Förster, 1916 **Note 23**

Syn. *Umma splendida* Navás, 1922

*Umma mesumbei* Vick, 1996

*Umma purpurea* Pinhey, 1961

-----  
**Note 20.** The taxon *dorothea* is usually ranked as a subspecies of *P. mandarinus*. However, it is uncertain whether the Taiwanese populations of *mandarinus* can be classified to distinct subspecies. On the other hand the taxon *kuroiuae* undoubtedly represents a distinct species.

**Note 21.** According to K-D.B. Dijkstra (*in litt.*, 12 October 2015; and <http://www.iucnredlist.org/details/169196/0>) *Sapho infumosa* is most probably a synonym of *Sapho fumosa*.

**Note 22.** It is uncertain whether *Sapho gloriosa* and *S. orichalcea* are distinct species. The taxonomy of this group remains unsolved (K-D.B. Dijkstra (*in litt.*, 12 October 2015)).

**Note 23.** According to K-D.B. Dijkstra (*in litt.*, 12 October 2015) *Umma saphirina* is most probably synonym of *U. mesostigma*.

**Vestalis** Selys, 1853Syn. *Vestinus* Kennedy, 1920 [\* *gracilis*]*Vestalis amabilis* Lieftinck, 1965*Vestalis amaryllis* Lieftinck, 1965*Vestalis amethystina* Lieftinck, 1965*Vestalis amnicola* Lieftinck, 1965*Vestalis amoena* Hagen in Selys, 1853*Vestalis anacolosa* Lieftinck, 1965*Vestalis anne* Hämäläinen, 1985*Vestalis apicalis* Selys, 1873*Vestalis atrophæa* Lieftinck, 1965*Vestalis beryllæ* Laidlaw, 1915*Vestalis gracilis* (Rambur, 1842) [*Calopteryx gracilis*]*Vestalis luctuosa* (Burmeister, 1839) [*Calopteryx luctuosa*] \*Syn. *Calopteryx formosa* Rambur, 1842*Vestalis lugens* Albarda in Selys, 1879*Vestalis melania* Selys, 1873*Vestalis nigrescens* Fraser, 1929 **Note 24**Syn. *Neurobasis apicalis* Kirby, 1891 (secondary homonym)*Vestalis submontana* Fraser, 1934 [*Vestalis apicalis submontana*]Syn. *Vestalis apicalis amaena* Fraser, 1929 (homonym)Syn. *Vestalis gracilis amaena* Fraser, 1929 (homonym)Syn. *Vestalis gracilis montana* Fraser, 1934**Vestalaria** May, 1935*Vestalaria miao* (Wilson & Reels, 2001) [*Vestalis miao*]*Vestalaria smaragdina* (Selys, 1879) [*Vestalis smaragdina*] \**Vestalaria velata* (Ris, 1912) [*Vestalis smaragdina velata*]Syn. *Vestalis virens* Needham, 1930*Vestalaria venusta* (Hämäläinen, 2004) [*Vestalis venusta*]*Vestalaria vinnula* Hämäläinen, 2006Subfamily **Hetaerinae** Fraser in Tillyard & Fraser, 1939**Bryoplathanon** Garrison, 2006*Bryoplathanon globifer* (Hagen in Selys, 1853) [*Lais globifer*] \***Hetaerina** Hagen in Selys, 1853*Hetaerina amazonica* Sjöstedt, 1918*Hetaerina americana* (Fabricius, 1798) [*Agrion americana*]Syn. *Lestes basalis* Say, 1840Syn. *Hetaerina basalis* Hagen in Selys, 1859 (secondary homonym)Syn. *Hetaerina californica* Hagen in Selys, 1859Syn. *Hetaerina pseudamericana* Walsh, 1864Syn. *Hetaerina scelerata* Walsh, 1864Syn. *Hetaerina texana* Walsh, 1864-----  
**Note 24.** *Vestalis nigrescens* Fraser, 1929 is ranked here as a good species, not as subspecies of *V. apicalis* Selys, 1873.

- Hetaerina auripennis* (Burmeister, 1839) [*Calopteryx auripennis*]  
 Syn. *Hetaerina divina* Hagen in Selys, 1854  
 Syn. *Hetaerina purpurea* Selys, 1854
- Hetaerina aurora* Ris, 1918
- Hetaerina brightwelli* (Kirby, 1823) [*Agrion brightwelli*]
- Hetaerina caja* (Drury, 1773) [*Libellula caia*] \*  
 – *Hetaerina caja caja* (Drury, 1773) [*Libellula caia*]  
 – *Hetaerina caja dominula* Hagen in Selys, 1853 [*Hetaerina dominula*]
- Hetaerina capitalis* Selys, 1873  
 ?Syn. *Hetaerina maxima* McLachlan, 1879  
 Syn. *Hetaerina tolteca* Calvert, 1901  
 Syn. *Hetaerina capitalis colombiana* Navás, 1923  
 ?Syn. *Hetaerina smaragdalis* De Marmels, 1985
- Hetaerina charca* Calvert, 1909
- Hetaerina cruentata* (Rambur, 1842) [*Calopteryx cruentata*]  
 Syn. *Calopteryx luteola* Rambur, 1842  
 Syn. *Hetaerina cruentata brasiliensis* Selys, 1853  
 Syn. *Hetaerina cruentata lineata* Hagen in Selys, 1853
- Hetaerina curvicauda* Garrison, 1990
- Hetaerina duplex* Selys, 1869
- Hetaerina erythrokalamus* Garrison, 1990
- Hetaerina flavipennis* Garrison, 1990
- Hetaerina fuscoguttata* Selys, 1879
- Hetaerina gallardi* Machet, 1989
- Hetaerina hebe* Selys, 1853  
 Syn. *Hetaerina sanguinolenta* Hagen in Selys, 1853
- Hetaerina indepressa* Garrison, 1990
- Hetaerina infecta* Calvert, 1901
- Hetaerina laesa* Hagen in Selys, 1853  
 Syn. *Hetaerina klugi* Schmidt, 1942  
 Syn. *Hetaerina papavarina* Fraser, 1946
- Hetaerina longipes* Hagen in Selys, 1853  
 Syn. *Hetaerina carnifex* Hagen in Selys, 1853  
 Syn. *Hetaerina carnifex fulgens* Selys, 1853
- Hetaerina majuscula* Selys, 1853
- Hetaerina medinai* Rácenis, 1968
- Hetaerina mendezi* Jurzitza, 1982
- Hetaerina miniata* Selys, 1879
- Hetaerina moribunda* Hagen in Selys, 1853
- Hetaerina mortua* Hagen in Selys, 1853
- Hetaerina occisa* Hagen in Selys, 1853  
 Syn. *Hetaerina macropus* Selys, 1853  
 Syn. *Hetaerina occisa albistigma* Hagen in Selys, 1853  
 Syn. *Hetaerina heterosticta* Selys, 1854  
 Syn. *Hetaerina occisa asticta* Selys, 1873  
 Syn. *Hetaerina occisa sublimbata* Selys, 1873
- Hetaerina pilula* Calvert, 1901
- Hetaerina proxima* Selys, 1853
- Hetaerina rosea* Selys, 1853  
 Syn. *Hetaerina donna* Selys, 1873
- Hetaerina rudis* Calvert, 1901

*Hetaerina sanguinea* Selys, 1853

*Hetaerina sempronia* Hagen in Selys, 1853

*Hetaerina simplex* Selys, 1853

Syn. *Hetaerina perplex* Selys, 1869

*Hetaerina titia* (Drury, 1773) [*Libellula titia*]

Syn. *Calopteryx tricolor* Burmeister, 1839

Syn. *Hetaerina septentrionalis* Selys, 1853

Syn. *Hetaerina tricolor limbata* Selys, 1853

Syn. *Hetaerina rupinsulensis* Walsh, 1862

Syn. *Hetaerina rupamnensis* Walsh, 1864

Syn. *Hetaerina* (?*titia*) *bipartita* Selys, 1873

*Hetaerina vulnerata* Hagen in Selys, 1853

*Hetaerina westfalli* Rácenis, 1968

**Mnesarete** Cowley, 1934

Syn. *Lais* Hagen in Selys 1853 (preoccupied name) [\* *hyalina*]

*Mnesarete aenea* (Selys, 1853) [*Lais aenea*]

*Mnesarete astrape* De Marmels, 1989

*Mnesarete borchgravii* (Selys, 1869) [*Hetaerina borchgravii*]

*Mnesarete cupraea* (Selys, 1853) [*Lais cupraea*]

Syn. *Mnesarete scintilla* Rácenis, 1968

*Mnesarete devillei* (Selys, 1880) [*Lais devillei*]

*Mnesarete drepane* Garrison, 2006

*Mnesarete ephippium* Garrison, 2006

*Mnesarete fulgida* (Selys, 1879) [*Lais* (?*aenea*) *fulgida*]

*Mnesarete fuscibasis* (Calvert, 1909) [*Hetaerina fuscibasis*]

*Mnesarete grisea* (Ris, 1918) [*Lais grisea*]

*Mnesarete guttifera* (Selys, 1873) [*Lais guttifera*]

*Mnesarete hauxwelli* (Selys, 1869) [*Lais hauxwelli*]

*Mnesarete hyalina* (Hagen in Selys, 1853) [*Lais hyalina*] \*

*Mnesarete lencionii* Garrison, 2006

*Mnesarete loutoni* Garrison, 2006

*Mnesarete machadoi* Garrison, 2006

*Mnesarete marginata* (Selys, 1879) [*Lais marginata*]

*Mnesarete mariana* Machado, 1996

*Mnesarete metallica* (Selys, 1869) [*Lais metallica*]

Syn. *Mnesarete* (Sic!) *hincksi* Fraser, 1946

*Mnesarete pruinosa* (Hagen in Selys, 1853) [*Lais pruinosa*]

*Mnesarete pudica* (Hagen in Selys, 1853) [*Lais pudica*]

– *Mnesarete pudica pudica* (Hagen in Selys, 1853) [*Lais pudica*]

– *Mnesarete pudica phryne* Costa 1986

*Mnesarete rhopalon* Garrison, 2006

*Mnesarete smaragdina* (Selys, 1869) [*Lais smaragdina*]

*Mnesarete williamsoni* Garrison, 2006

**Ormenophlebia** Garrison, 2006

*Ormenophlebia imperatrix* (McLachlan, 1878) [*Lais imperatrix*] \*

*Ormenophlebia regina* (Ris, 1918) [*Lais regina*]

*Ormenophlebia rollinati* (Martin, 1897) [*Lais rollinati*]

*Ormenophlebia saltuum* (Ris, 1918) [*Lais saltuum*]



Family **Chlorocyphidae** Cowley, 1937'African genera' (subfamily **Chlorocyphinae**)**Africocypha** Pinhey, 1961*Africocypha centripunctata* (Gambles, 1975) [*Chlorocypha centripunctata*]*Africocypha lacuselephantum* (Karsch, 1899) [*Libellago lacus elephantum* (Sic!)]Syn. *Chlorocypha* (*Africocypha*) *greyi* Pinhey, 1961 \*Syn. *Chlorocypha* (*Africocypha*) *ntaali* Pinhey, 1961*Africocypha varicolor* Dijkstra, Mézière & Günther in Dijkstra, Kipping & Mézière, 2015**Chlorocypha** Fraser, 1928Syn. *Libellago* Selys, 1853 (preoccupied name) [\* *dispar*]*Chlorocypha aphrodite* (Le Roi, 1915) [*Libellago aphrodite*]*Chlorocypha aurora* Dijkstra, Kipping & Schütte in Dijkstra, Kipping & Mézière, 2015*Chlorocypha cancellata* (Selys, 1879) [*Libellago cancellata*]– *Chlorocypha cancellata cancellata* (Selys, 1879) [*Libellago cancellata*]Syn. *Libellago hintzi* Grünberg, 1914– *Chlorocypha cancellata insulana* Pinhey, 1971*Chlorocypha consueta* (Karsch, 1899) [*Libellago consueta*]*Chlorocypha crocea* Longfield, 1947 [*Chlorocypha croceus*] **Note 25**– *Chlorocypha crocea crocea* Longfield, 1947 [*Chlorocypha croceus*]– *Chlorocypha crocea bamptoni* Pinhey, 1975 [*Chlorocypha croceus bamptoni*]*Chlorocypha curta* (Hagen in Selys, 1853) [*Libellago curta*]Syn. *Libellago decorata* Karsch, 1893Syn. *Chlorocypha curta bicolor* Fraser, 1941*Chlorocypha cyanifrons* (Selys, 1873) [*Libellago cyanifrons*]Syn. *Libellago glaucifrons* Sjöstedt, 1900Syn. *Chlorocypha dispar cordosa* Fraser, 1947*Chlorocypha dahli* Fraser, 1956 [*Chlorocypha dhali* (Sic!)]*Chlorocypha dispar* (Palisot de Beauvois, 1807) [*Agrion dispar*] \**Chlorocypha fabamacula* Pinhey, 1961*Chlorocypha flammea* Dijkstra & Clausnitzer in Dijkstra, Kipping & Mézière, 2015*Chlorocypha frigida* Pinhey, 1961*Chlorocypha ghesquierei* Fraser, 1959*Chlorocypha glauca* (Selys, 1879) [*Libellago glauca*]*Chlorocypha granata* Dijkstra in Dijkstra, Kipping & Mézière, 2015*Chlorocypha helenae* Legrand, 1984*Chlorocypha jejuna* (Baumann, 1898) [*Libellago jejuna*]*Chlorocypha luminosa* (Karsch, 1893) [*Libellago luminosa*]Syn. *Chlorocypha sharpae* Pinhey, 1972*Chlorocypha maxima* Dijkstra, Kipping & Mézière, 2015*Chlorocypha neptunus* (Sjöstedt, 1900) [*Libellago neptunus*]*Chlorocypha pyriformosa* Fraser, 1947 [*Chlorocypha dispar pyriformosa*]Syn. *Chlorocypha dispar ovulosa* Fraser, 1947Syn. *Libellago dispar fraseri* Schmidt, 1951Syn. *Chlorocypha mutans* Legrand & Couturier, 1985*Chlorocypha radix* Longfield, 1959 [*Chlorocypha glauca radix*]Syn. *Chlorocypha pavonis* Lieftinck, 1973

-----  
**Note 25.** According to K-D.B. Dijkstra (*in litt.*, 12 October 2015) the taxon *bamptoni* probably represents a good species.

*Chlorocypha rubida* (Hagen in Selys, 1853) [*Libellago rubida*]

*Chlorocypha rubriventris* Pinhey, 1975

*Chlorocypha schmidti* Pinhey, 1967

*Chlorocypha selysi* (Karsch, 1899) [*Libellago selysi*]

Syn. *Libellago camerunensis* Sjöstedt, 1900

Syn. *Chlorocypha selysi nigeriensis* Gambles, 1975

*Chlorocypha seydeli* Fraser, 1958

*Chlorocypha trifaria* (Karsch, 1899) [*Libellago trifaria*]

Syn. *Chlorocypha straeleni* Fraser, 1949

*Chlorocypha victoriae* (Förster, 1914) [*Libellago rubida victoriae*]

*Chlorocypha wittei* Fraser, 1955

***Platycypha*** Fraser, 1949

*Platycypha amboniensis* (Martin, 1915) [*Libellago amboniensis*]

*Platycypha angolensis* Longfield, 1959 [*Platycypha caligata angolensis*] **Note 26**

*Platycypha auripes* (Förster, 1906) [*Libellago auripes*]

Syn. *Platycypha greenwayi* Pinhey, 1950

*Platycypha caligata* (Selys, 1853) [*Libellago caligata*] \* **Note 27**

Syn. *Libellago ambigua* Gerstäcker, 1869

Syn. *Libellago caligata hartmanni* Förster, 1897

Syn. *Libellago sulphuripes* Poulton, 1929 **Note 28**

*Platycypha eliseva* Dijkstra, 2008

*Platycypha fitzsimonsi* (Pinhey, 1950) [*Chlorocypha fitzsimonsi*]

*Platycypha inyangae* Pinhey, 1958 [*Platycypha fitzsimonsi inyangae*]

*Platycypha lacustris* (Förster, 1914) [*Libellago caligata lacustris*]

– *Platycypha lacustris lacustris* (Förster, 1914) [*Libellago caligata lacustris*]

Syn. *Chlorocypha armageddoni* Fraser, 1940

– *Platycypha lacustris chingolae* Pinhey, 1962

*Platycypha picta* (Pinhey, 1962) [*Chlorocypha picta*]

*Platycypha pinheyi* Fraser, 1950

*Platycypha rufitibia* (Pinhey, 1961) [*Chlorocypha (Chlorocypha) rufitibia*]

– *Platycypha rufitibia rufitibia* (Pinhey, 1961) [*Chlorocypha (Chlorocypha) rufitibia*]

– *Platycypha rufitibia lucalaensis* (Pinhey, 1967) [*Chlorocypha rufitibia lucalaensis*]

***Stenocypha*** Dijkstra, 2013

*Stenocypha gracilis* (Karsch, 1899) [*Libellago gracilis*] \*

Syn. *Libellago grandis* Sjöstedt, 1900

Syn. *Libellago collarti* Navás, 1929 **Note 29**

Syn. *Chlorocypha muniensis* Compte Sart, 1967

*Stenocypha hasta* (Pinhey, 1960) [*Chlorocypha hasta*]

*Stenocypha jacksoni* (Pinhey, 1952) [*Chlorocypha jacksoni*]

-----  
**Note 26.** According to K-D.B. Dijkstra (*in litt.*, 12 October 2015) the taxon *Platycypha angolensis* represents a good species.

**Note 27.** The taxon *Platycypha caligata* ‘morph’ *lacus* Pinhey, 1982 is an infrasubspecific name. According to Dijkstra (2007) this form may represent a new species.

**Note 28.** In nomenclatoric terms Poulton (1929) made René Martin’s manuscript name *sulphuripes* available, although he correctly thought that it might represent an immature specimen of *caligata*.

**Note 29.** The synonymy of *Libellula collarti* is according to K-D.B. Dijkstra (*in litt.*, 10 October 2013).

*Stenocypha molindica* (Fraser, 1948) [*Chlorocypha molindica*] **Note 30**  
*Stenocypha tenuis* (Longfield, 1936) [*Chlorocypha tenuis*]  
 Syn. *Chlorocypha basilewskyi* Fraser, 1955

**'Oriental and Australasian genera'**

***Aristocypha*** Laidlaw, 1950

*Aristocypha aino* Hämäläinen, Reels & Zhang, 2008  
*Aristocypha baibarana* (Matsumura, 1931) [*Rhynocypha* (Sic!) *baibarana*]  
*Aristocypha chaoi* (Wilson, 2004) [*Rhynocypha chaoi*]  
*Aristocypha cuneata* (Selys, 1853) [*Rhynocypha cuneata*]  
 Syn. *Rhynocypha (quadrimaculata) adamantina* Förster, 1903  
 Syn. *Rhynocypha bifenestrata* Fraser, 1922  
*Aristocypha fenestrella* (Rambur, 1842) [*Rhynocypha fenestrella*]  
*Aristocypha fulgipennis* (Guérin, 1831) [*Agrion fulgipennis*]  
*Aristocypha hilaryae* (Fraser, 1927) [*Rhynocypha hilaryae*]  
 – *Aristocypha hilaryae hilaryae* (Fraser, 1927) [*Rhynocypha hilaryae*]  
 – *Aristocypha hilaryae miaoa* (Lahiri & Sinha, 1991) [*Rhynocypha hilaryae miaoa*]  
*Aristocypha immaculata* (Selys, 1879) [*Rhynocypha immaculata*]  
*Aristocypha iridea* (Selys, 1891) [*Rhynocypha iridea*]  
 ?Syn. *Rhynocypha iridea kerri* Fraser, 1933  
*Aristocypha quadrimaculata* (Selys, 1853) [*Rhynocypha quadrimaculata*] \*  
 Syn. *Rhynocypha quadrimaculata hemihyalina* Fraser, 1922  
*Aristocypha spuria* (Selys, 1879) [*Rhynocypha quadrimaculata spuria*]  
*Aristocypha trifasciata* (Selys, 1853) [*Rhynocypha trifasciata*]  
 Syn. *Rhynocypha bifasciata* Selys, 1879

***Calocypha*** Fraser, 1928

*Calocypha laidlawi* (Fraser, 1924) [*Rhynocypha laidlawi*] \*

***Cyrano*** Needham & Gyger, 1939 **Note 31**

*Cyrano angustior* Hämäläinen, 1989  
*Cyrano unicolor* (Hagen in Selys, 1869) [*Rhynocypha unicolor*] \*  
 Syn. *Libellago asiatica* Selys, 1879

***Disparocypha*** Ris, 1916

*Disparocypha biedermanni* Ris, 1916 \*

-----  
**Note 30.** There are two names linked to *Stenocypha molindica* (Fraser, 1948): *Libellago graueri* Pinhey, 1963 and *Libellago longfieldi* Pinhey, 1967. The former name (based on Schmidt's manuscript name) is a *nomen nudum*. The latter name (based on Fraser's manuscript name) was published with descriptive notes and information on the type specimens. However, it is not an available name, since it was introduced as a synonymic name under *Chlorocypha molindica*; see Pinhey (1967).

**Note 31.** The genus name *Neocypha* Cowley in Tillyard & Fraser, 1939 (with *Libellago asiatica* as the type species) is a *nomen nudum*.

**Heliocypha** Fraser, 1949

- Heliocypha angusta* (Hagen in Selys, 1853) [*Rhinocypha angusta*]  
 – *Heliocypha angusta angusta* (Hagen in Selys, 1853) [*Rhinocypha angusta*]  
     Syn. *Rhinocypha* (?*bisignata*) *apicalis* Krüger, 1898  
 – *Heliocypha angusta oceanis* (Lieftinck, 1947) [*Rhinocypha angusta oceanis*]
- Heliocypha biforata* (Selys, 1859) [*Rhinocypha biforata*]  
     Syn. *Rhinocypha biforata delimbata* Selys, 1879  
     Syn. *Rhinocypha beelsoni* Fraser, 1922  
     Syn. *Rhinocypha biforata abbreviata* Fraser, 1928
- Heliocypha biseriata* (Selys, 1859) [*Rhinocypha biseriata*]  
     Syn. *Rhinocypha biseriata anambae* Laidlaw, 1933
- Heliocypha bisignata* (Hagen in Selys, 1853) [*Rhinocypha bisignata*] \*
- Heliocypha fenestrata* (Burmeister, 1839) [*Calopteryx fenestrata*]  
 – *Heliocypha fenestrata fenestrata* (Burmeister, 1839) [*Calopteryx fenestrata*]  
     Syn. *Rhinocypha infumata* Rambur, 1842  
     Syn. *Rhinocypha vitrella* Rambur, 1842  
 – *Heliocypha fenestrata cornelii* (Lieftinck, 1947) [*Rhinocypha fenestrata cornelii*]
- Heliocypha mariae* (Lieftinck, 1930) [*Rhinocypha mariae*]
- Heliocypha nubecula* (Lieftinck, 1948) [*Rhinocypha nubecula*]
- Heliocypha perforata* (Percheron, 1835) [*Agrion perforatus*]  
 – *Heliocypha perforata perforata* (Percheron, 1835) [*Agrion perforatus*]  
     Syn. *Rhinocypha whiteheadi* Kirby, 1900  
     Syn. *Rhynocypha* (Sic!) *14-maculata* Oguma, 1913  
     Syn. *Rhinocypha maculata* Matsumura, 1931  
     Syn. *Rhinocypha albistigma* Matsumura, 1931 (homonym) **Note 32**  
     Syn. *Heliocypha yunnanensis* Zhou & Zhou, 2004 **Note 33**  
 – *Heliocypha perforata limbata* (Selys, 1879) [*Rhinocypha perforata limbata*]  
     Syn. *Rhinocypha inas* Laidlaw, 1902  
 – *Heliocypha perforata beatifica* (Fraser, 1927) [*Rhinocypha perforata beatifica*]

**Heterocypha** Laidlaw, 1950

- Heterocypha vitrinella* (Fraser, 1935) [*Rhinocypha vitrinella*] \*

**Indocypha** Fraser, 1949

- Indocypha catopta* Zhang, Hämäläinen & Tong, 2010
- Indocypha katharina* (Needham, 1930)  
     Syn. *Indocypha chishuiensis* Zhou & Zhou, 2006
- Indocypha neglecta* Hämäläinen, 2014
- Indocypha silbergliedi* Asahina, 1988
- Indocypha svenhedini* (Sjöstedt, 1932) [*Rhinocypha sven-hedini*]
- Indocypha vittata* (Selys, 1891) [*Libellago asiatica vittata*] \*  
     Syn. *Indocypha leucoura* Asahina, 1985

-----  
**Note 32.** *Rhinocypha albistigma* Matsumura, 1931 is homonym of *Rhinocypha albistigma* Selys, 1873.

**Note 33.** *Heliocypha yunnanensis* Zhou & Zhou, 2004 is an obvious synonym of *H. p. perforata*.

**Libellago** Selys, 1840Syn. *Micromerus* Rambur, 1842 [\* *lineatus*]*Libellago adami* Fraser, 1939 **Note 34**Syn. *Libellago miae* Lieftinck, 1940*Libellago andamanensis* (Fraser, 1924) [*Micromerus andamanensis*]*Libellago asclepiades* (Ris, 1916) [*Micromerus asclepiades*]*Libellago aurantiaca* (Selys, 1859) [*Micromerus aurantiacus*]Syn. *Micromerus annandali* Laidlaw, 1903*Libellago balus* Hämäläinen, 2002*Libellago blanda* (Hagen in Selys, 1853) [*Micromerus blandus*]*Libellago celebensis* Van Tol, 2007– *Libellago celebensis celebensis* Van Tol, 2007– *Libellago celebensis anoa* Van Tol, 2007– *Libellago celebensis dorsonigra* Van Tol, 2007– *Libellago celebensis orientalis* Van Tol, 2007*Libellago corbeti* Van der Poorten, 2009*Libellago daviesi* Van Tol, 2007*Libellago dorsocyana* Lieftinck, 1937*Libellago finalis* (Hagen in Selys, 1869) [*Micromerus finalis*]*Libellago greeni* (Laidlaw, 1924) [*Micromerus greeni*]*Libellago hyalina* (Selys, 1859) [*Micromerus hyalinus*]Syn. *Libellago malayana* St. Quentin, 1966*Libellago indica* (Fraser, 1928) [*Micromerus lineatus indica*]*Libellago lineata* (Burmeister, 1839) [*Calopteryx lineata*] \*Syn. *Micromerus uxor* Rambur, 1842Syn. *Micromerus obscurus* Kirby, 1886Syn. *Micromerus signatus* Krüger, 1898*Libellago manganitu* Van Tol, 2007*Libellago naias* Lieftinck, 1932*Libellago orri* Dow & Hämäläinen, 2008*Libellago phaethon* (Laidlaw, 1931) [*Micromerus phaethon*]*Libellago rufescens* (Selys, 1873) [*Micromerus rufescens*]*Libellago semiopaca* (Selys, 1873) [*Micromerus semiopacus*]Syn. *Micromerus martinae* Karsch, 1891Syn. *Micromerus affinis* Laidlaw, 1902Syn. *Libellago mima* Lieftinck, 1932*Libellago stictica* (Selys, 1859) [*Micromerus (?stigmatizans) sticticus*]*Libellago stigmatizans* (Selys, 1859) [*Micromerus stigmatizans*]*Libellago sumatrana* (Albarda in Selys, 1879) [*Micromerus sumatranus*]*Libellago xanthocyana* (Selys, 1869) [*Micromerus xanthocyanus*]**Melanocypha** Fraser, 1949*Melanocypha snellemani* (Albarda in Selys, 1879) [*Micromerus snellemani*] \*– *Melanocypha snellemani snellemani* (Albarda in Selys, 1879) [*Micromerus snellemani*]– *Melanocypha snellemani javana* Laidlaw, 1950**Pachycypha** Lieftinck, 1950*Pachycypha aurea* Lieftinck, 1950 \*

-----

**Note 34.** The name *Micromerus lineatus ceylanicus* Laidlaw, 1924 (*nomen nudum*) obviously refers to *Libellago adami*.

**Paracypha** Fraser, 1949*Paracypha unimaculata* (Selys, 1853) [*Rhinocypha unimaculata*] \***Rhinocypha** Rambur, 1842*Rhinocypha anisoptera* Selys, 1879 [*Rhynocypha* (Sic!) *anisoptera*]*Rhinocypha arguta* Hämäläinen & Divasiri, 1997*Rhinocypha aurofulgens* Laidlaw, 1931*Rhinocypha aurulenta* Förster, 1903*Rhinocypha colorata* Hagen in Selys, 1869*Rhinocypha cucullata* Selys, 1873*Rhinocypha dorsosanguinea* Lieftinck, 1961*Rhinocypha drusilla* Needham, 1930 **Note 35**?Syn. *Rhinocypha maolanensis* (Zhou & Bao, 2002) [*Indocypha maolanensis*]*Rhinocypha frontalis* Selys, 1873*Rhinocypha hageni* Krüger, 1898*Rhinocypha heterostigma* Rambur, 1842Syn. *Rhinocypha heterostigma io* Fraser, 1926*Rhinocypha huai* (Zhou & Zhou, 2006) [*Heliocypha huai*]*Rhinocypha humeralis* Selys, 1873Syn. *Rhinocypha eximia* McLachlan in Selys, 1873*Rhinocypha ignipennis* Selys, 1879*Rhinocypha latimacula* Lieftinck, 1974*Rhinocypha liberata* Lieftinck, 1949*Rhinocypha monochroa* Selys, 1873*Rhinocypha moultoni* Laidlaw, 1915*Rhinocypha ogasawarensis* Oguma, 1913 [*Rhynocypha* (Sic!) *ogasawarensis*]*Rhinocypha orea* Hämäläinen & Karube, 2001*Rhinocypha pagenstecheri* Förster, 1897– *Rhinocypha pagenstecheri pagenstecheri* Förster, 1897Syn. *Libellago lombockensis* McLachlan, 1898– *Rhinocypha pagenstecheri pusilla* Lieftinck, 1953– *Rhinocypha pagenstecheri timorana* Lieftinck, 1936*Rhinocypha pallidifrons* Ris, 1927*Rhinocypha pelops* Laidlaw, 1936*Rhinocypha phantasma* Lieftinck, 1935*Rhinocypha sanguinolenta* Lieftinck, 1961*Rhinocypha seducta* Hämäläinen & Karube, 2001*Rhinocypha selysi* Krüger, 1898*Rhinocypha semitincta* Selys, 1869 **Note 36**Syn. *Rhinocypha albistigma* Selys, 1873*Rhinocypha spinifer* Laidlaw, 1931*Rhinocypha stygia* Förster, 1897Syn. *Rhinocypha cognata* Kimmins, 1936*Rhinocypha sumbana* Förster, 1897 [*Rhinocypha pagenstecheri sumbana*]Syn. *Rhinocypha braueri* Krüger, 1898*Rhinocypha taiwana* Wang & Chang in Wang, Cherng, Chang & Jiang, 2013

-----

**Note 35.** Zhang & al. (2010) transferred *Indocypha maolanensis* Zhou & Bao, 2002 to the genus *Rhinocypha*. It is a probable synonym of *R. drusilla* Needham, 1930 (M. Hämäläinen & H-m. Zhang, *in litt.*).

**Note 36.** *Rhinocypha semitincta* Selys, 1869 may be best ranked as good species rather than subspecies of *R. tincta*. Similarly some of the subspecies of *tincta* listed below might eventually be best raised to the species level (M. Hämäläinen & A.G. Orr, *in litt.*).

*Rhinocypha tincta* Rambur, 1842 \*

- *Rhinocypha tincta tincta* Rambur, 1842
- *Rhinocypha tincta adusta* Lieftinck, 1949
- *Rhinocypha tincta amanda* Lieftinck, 1938
- *Rhinocypha tincta dentiplaga* Lieftinck, 1938
- *Rhinocypha tincta retrograda* Lieftinck, 1938
- *Rhinocypha tincta sagitta* Lieftinck, 1938

*Rhinocypha trimaculata* Selys, 1853

*Rhinocypha turconii* Selys, 1891

*Rhinocypha uenoi* Asahina, 1964

*Rhinocypha ustulata* Brauer, 1867

Syn. *Rhinocypha terminata* Selys, 1869

*Rhinocypha viola* Orr, 2002

*Rhinocypha watsoni* Van Tol & Rozendaal, 1995

*Rhinocypha xanthe* Ris, 1927

**Rhinoneura** Laidlaw, 1915

*Rhinoneura caerulea* Kimmins, 1936

*Rhinoneura villosipes* Laidlaw, 1915 \*

**Sclerocypha** Fraser, 1949

*Sclerocypha bisignata* (McLachlan, 1870) [*Micromerus bisignatus*] \*

**Sundacypha** Laidlaw, 1950

*Sundacypha petiolata* (Selys, 1859) [*Rhinocypha petiolata*] \*

Syn. *Rhinocypha karschi* Krüger, 1898

Syn. *Micromerus rubropictus* Martin, 1902

*Sundacypha striata* Orr, 1999

**Watuwila** Van Tol, 1998

*Watuwila vervoorti* Van Tol, 1998 \*

#### Family **Dicteriadiidae** Montgomery, 1959

**Dicterias** Selys, 1853

*Dicterias atrosanguinea* Selys, 1853 \*

Syn. *Dicterias procera* Hagen in Selys, 1859 [*Dicteria sprocera* (Sic!)]

**Heliocharis** Selys, 1853

Syn. *Cyanocharis* Needham, 1903 [\* *valga*]

Syn. *Neocharis* Förster, 1906 (preoccupied name) [\* *cothurnata*]

Syn. *Charitopteryx* Cowley, 1934 [\* *cothurnata*]

*Heliocharis amazona* Selys, 1853 \*

Syn. *Heliocharis brasiliensis* Hagen in Selys, 1859

Syn. *Heliocharis libera* Selys, 1869

Syn. *Cyanocharis valga* Needham, 1903

Syn. *Neocharis cothurnata* Förster, 1906

Syn. *Dicterias umbra* Ris, 1918

Syn. *Dicterias peruviana* Navás, 1920

Syn. *Heliocharis paraensis* Costa & Santos, 1991

Family **Euphaeidae** Yakobson & Bianchi, 1905**Anisopleura** Selys, 1853*Anisopleura bipugio* Hämäläinen & Karube, 2013*Anisopleura comes* Hagen, 1880*Anisopleura furcata* Selys, 1891*Anisopleura lestoides* Selys, 1853 \*Syn. *Anisopleura kusumi* Sahni, 1965*Anisopleura pelecyphora* Zhang, Hämäläinen & Cai, 2014*Anisopleura qingyuanensis* Zhou, 1982*Anisopleura subplatystyla* Fraser, 1927 **Note 37**Syn. *Anisopleura lieftincki* Prasad & Ghosh, 1984*Anisopleura trulla* Hämäläinen, 2003*Anisopleura vallei* St. Quentin, 1937*Anisopleura yunnanensis* Zhu & Zhou, 1999*Anisopleura zhengi* Yang, 1996**Bayadera** Selys, 1853 **Note 38***Bayadera bidentata* Needham, 1930*Bayadera brevicauda* Fraser, 1928*Bayadera continentalis* Asahina, 1973 [*Bayadera brevicauda continentalis*]*Bayadera fasciata* Sjöstedt, 1932*Bayadera forcipata* Needham, 1930*Bayadera hatvan* Hämäläinen & Kompier, 2015*Bayadera hyalina* Selys, 1879*Bayadera indica* (Selys, 1853) [*Epallage indica*] \**Bayadera ishigakiana* Asahina, 1964 [*Bayadera brevicauda ishigakiana*]*Bayadera kali* Cowley, 1936*Bayadera kinnara* Hämäläinen, 2013*Bayadera kirbyi* Wilson & Reels, 2001*Bayadera longicauda* Fraser, 1928*Bayadera melanopteryx* Ris, 1912Syn. *Bayadera melania* Navás, 1934*Bayadera nephelopennis* Davies & Yang, 1996*Bayadera serrata* Davies & Yang, 1996*Bayadera strigata* Davies & Yang, 1996**Cryptophaea** Hämäläinen, 2003*Cryptophaea saukra* Hämäläinen, 2003 \**Cryptophaea vietnamensis* (Van Tol & Rozendaal, 1995) [*Bayadera vietnamensis*]*Cryptophaea yunnanensis* (Davies & Yang, 1996) [*Schmidtphaea yunnanensis*]**Cyclophaea** Ris, 1930*Cyclophaea cyanifrons* Ris, 1930 \*

-----

**Note 37.** A species '*Anisopleura bella* Mitra & Thinley, 2006' was published in a printed report submitted to the Ministry of Agriculture of Bhutan (Mitra & Thinley 2006). In this report an 'interim name' *Anisopleura bella* was introduced. The publication does not fulfil the requirements of Article 8.1 of the Code, therefore the name is not available for zoological nomenclature.

**Note 38.** A new species, *Bayadera unimaculata* Zhou, 2007, described in an unpublished Master's thesis at Guizhou University (Guiyang, China) is not available for the zoological nomenclature. It is probably same as *B. continentalis*.



**Dysphaea** Selys, 1853*Dysphaea basitincta* Martin, 1904*Dysphaea dimidiata* Selys, 1853 \*Syn. *Dysphaea (dimidiata) limbata* Selys, 1859Syn. *Dysphaea (?dimidiata) semilimbata* Selys, 1873*Dysphaea ethela* Fraser, 1924*Dysphaea gloriosa* Fraser, 1938*Dysphaea haomiao* Hämäläinen, 2012*Dysphaea lugens* Selys, 1873 [*Dysphaea (?dimidiata) lugens*]*Dysphaea ulu* Hämäläinen, Dow & Stokvis, 2015*Dysphaea vanida* Hämäläinen, Dow & Stokvis, 2015*Dysphaea walli* Fraser, 1927**Epallage** Charpentier, 1840*Epallage fatime* (Charpentier, 1840) [*Agrion fatime*] \*Syn. *Epallage fatime anatolica* Selys, 1869Syn. *Epallage alma* Selys, 1879Syn. *Epallage fatime amasina* Selys, 1879**Euphaea** Selys, 1840Syn. *Allophaea* Fraser, 1929 [\* *ochracea*]Syn. *Mesophaea* Fraser 1929 (preoccupied name) [\* *decorata*]Syn. *Anisophaea* Fraser, 1934 [\* *decorata*]Syn. *Indophaea* Fraser, 1929 [\* *dispar*]Syn. *Pseudophaea* Kirby, 1890 [\* *variegata*]*Euphaea ameeke* Van Tol & Norma-Rashid, 1995*Euphaea amphicyana* Ris, 1930*Euphaea aspasia* Selys, 1853*Euphaea basalis* (Laidlaw, 1915) [*Pseudophaea basalis*]*Euphaea bocki* McLachlan, 1880*Euphaea cardinalis* (Fraser, 1924) [*Pseudophaea cardinalis*]*Euphaea cora* Ris, 1930*Euphaea decorata* Hagen in Selys, 1853*Euphaea dispar* Rambur, 1842*Euphaea formosa* Hagen in Selys, 1869Syn. *Euphaea compar* McLachlan 1870*Euphaea fraseri* (Laidlaw, 1920) [*Pseudophaea fraseri*]Syn. *Pseudophaea fraseri wynaadensis* Fraser 1922*Euphaea guerini* Rambur, 1842*Euphaea hirta* Hämäläinen & Karube, 2001*Euphaea impar* Selys, 1859Syn. *Euphaea inaequipar* Selys, 1859*Euphaea inouei* Asahina, 1977 [*Euphaea guerini inouei*] **Note 39**

-----  
**Note 39.** *Euphaea inouei* Asahina, 1977. Based on morphological and unpublished molecular evidence this taxon is here ranked as a good species, rather than subspecies of *E. masoni*.

*Euphaea lara* Krüger, 1898

– *Euphaea lara lara* Krüger, 1898

?Syn. *Euphaea lara balica* McLachlan, 1898 **Note 40**

– *Euphaea lara lombockensis* McLachlan, 1898

*Euphaea masoni* Selys, 1879

*Euphaea modigliani* Selys, 1898

*Euphaea ochracea* Selys, 1859

?Syn. *Euphaea brunnea* Selys, 1879 **Note 41**

*Euphaea opaca* Selys, 1853

*Euphaea ornata* (Campion, 1924) [*Pseudophaea ornata*]

*Euphaea pahyapi* Hämäläinen, 1985

Syn. *Euphaea khaochongensis* Asahina, 1985

*Euphaea refulgens* Hagen in Selys, 1853

Syn. *Euphaea* (?*refugens* [Sic!]) *semperi* Selys, 1879

*Euphaea splendens* Hagen in Selys, 1853

Syn. *Pseudophaea carissima* Kirby, 1893

Syn. *Pseudophaea carissima viridissima* Kirby, 1893

*Euphaea subcostalis* Selys, 1873 [*Euphaea* (?*tricolor*) *subcostalis*]

Syn. *Euphaea laidlawi* Kimmins, 1936

*Euphaea subnodalis* (Laidlaw, 1915) [*Pseudophaea subnodalis*]

*Euphaea superba* Kimmins, 1936

*Euphaea tricolor* Selys, 1859

*Euphaea variegata* Rambur, 1842 \*

Syn. *Euphaea intermedia* Krüger, 1898

*Euphaea yayeyamana* Oguma, 1913

**Heterophaea** Cowley, 1934

Syn. *Paraphaea* Martin, 1902 (preoccupied name) [\* *barbata*]

*Heterophaea barbata* (Martin, 1902) [*Paraphaea barbata*] \*

Syn. *Paraphaea ruficollis* Ris, 1930

**Schmidtphaea** Asahina, 1978

*Schmidtphaea schmidi* Asahina, 1978 \*

Syn. *Bayadera chittaranjani* Lahiri, 2003 **Note 42**

-----

**Note 40.** *Euphaea lara balica* McLachlan, 1898 is a dubious taxon reported to originate from Bali. However, the occurrence of the species *lara* in Bali has been doubted by later authors.

**Note 41.** The status of *Euphaea brunnea* Selys, 1879 is uncertain, and studies on the geographic variability of *ochracea* are needed to determine whether *brunnea* might qualify as a subspecies of *ochracea*.

**Note 42.** Hämäläinen (2013) transferred the taxon *chittaranjani* to the genus *Schmidtphaea* and doubted it being a synonym. Here it is listed as a junior synonym of *schmidi*.

Family **Polythoridae** Munz, 1919**Chalcopteryx** Selys, 1853*Chalcopteryx machadoi* Costa, 2005*Chalcopteryx radians* Ris, 1914*Chalcopteryx rutilans* (Rambur, 1842) [*Rhinocypha rutilans*] \*Syn. *Chalcopteryx rutilans confluens* Schmidt, 1942*Chalcopteryx scintillans* McLachlan, 1870*Chalcopteryx seabrai* Santos & Machado, 1961**Chalcothore** De Marmels, 1985*Chalcothore montgomeryi* (Rácenis, 1968) [*Euthore montgomeryi*] \***Cora** Selys, 1853Syn. *Josocora* Kennedy, 1940 [\* *jocosa*]Syn. *Kalocora* Kennedy, 1940 [\* *aurea*]*Cora aurea* Ris, 1918*Cora chiribiquete* Zloty & Pritchard, 2001*Cora chirripa* Calvert, 1907– *Cora chirripa chirripa* Calvert, 1907– *Cora chirripa donnellyi* Bick & Bick, 1990*Cora confusa* Kennedy, 1940*Cora cyane* Selys, 1853 \*Syn. *Cora incana* Hagen in Selys, 1869*Cora dorada* Bick & Bick, 1991*Cora dualis* McLachlan, 1878*Cora inca* Selys, 1873Syn. *Cora brasiliensis* Montgomery, 1967*Cora irene* Ris, 1918*Cora jocosa* McLachlan, 1881*Cora klenei* Karsch, 1891*Cora lugubris* Navás, 1934*Cora marina* Selys, 1868Syn. *Cora alcyone* Selys, 1873*Cora modesta* Selys, 1869Syn. *Cora terminalis bogotensis* Förster, 1914*Cora munda* McLachlan, 1878*Cora notoxantha* Ris, 1918*Cora obscura* Ris, 1918*Cora parda* Bick & Bick, 1991*Cora semiopaca* Selys, 1879*Cora skinneri* Calvert, 1907[*Cora subfumata* Förster, 1914 [*Cora semiopaca subfumata*] (*nomen dubium*)]*Cora terminalis* McLachlan, 1878*Cora xanthostoma* Ris, 1918**Euthore** Selys, 1869*Euthore fasciata* (Hagen in Selys, 1853) [*Thore fasciata*] \*– *Euthore fasciata fasciata* (Hagen in Selys, 1853) [*Thore fasciata*]– *Euthore fasciata plagiata* Selys, 1873 [*Euthore (?fasciata) plagiata*]*Euthore fassli* Ris, 1914

*Euthore fastigiata* (Selys, 1859) [*Thore fastigiata*]  
 – *Euthore fastigiata fastigiata* (Selys, 1859) [*Thore fastigiata*]  
 – *Euthore fastigiata meridana* Selys, 1879 [*Euthore meridana*]  
*Euthore hyalina* (Selys, 1853) [*Thore hyalina*]  
*Euthore inlactea* Calvert, 1909 [*Euthore fasciata inlactea*]  
*Euthore leroii* Ris, 1918  
*Euthore mirabilis* McLachlan, 1878

**Miocora** Calvert, 1917  
*Miocora pellucida* Kennedy, 1940  
*Miocora peraltica* Calvert, 1917 \*  
 Syn. *Miocora subapicalis* Kennedy, 1940

**Polythore** Calvert, 1917  
 Syn. *Thore* Selys, 1853 (preoccupied name) [\* *gigantea*]

*Polythore aurora* (Selys, 1879) [*Thore aurora*]  
*Polythore batesi* (Selys, 1869) [*Thore batesi*]  
*Polythore beata* (McLachlan, 1869) [*Thore beata*]  
 Syn. *Thore (?batesi) inaequalis* Selys, 1869  
*Polythore boliviana* (McLachlan, 1878) [*Thore boliviana*]  
*Polythore concinna* (McLachlan, 1881) [*Thore concinna*]  
 Syn. *Sapho pulchella* Kirby, 1889  
*Polythore derivata* (McLachlan, 1881) [*Thore derivata*]  
 Syn. *Polythore derivata adjuncta* Fraser, 1946  
 Syn. *Polythore derivata ambigua* Fraser, 1946  
 Syn. *Polythore derivata originata* Fraser, 1946  
*Polythore gigantea* (Selys, 1853) [*Thore gigantea*] \*  
*Polythore koepcke* Börzsöny, 2013  
*Polythore lamerceda* Bick & Bick, 1985  
*Polythore manua* Bick & Bick, 1990  
*Polythore mutata* (McLachlan, 1881) [*Thore mutata*]  
*Polythore neopicta* Bick & Bick, 1990  
*Polythore ornata* (Selys, 1879) [*Thore ornata*]  
 Syn. *Thore montana* Förster, 1914  
 Syn. *Thore pozuzina* Förster, 1914  
*Polythore picta* (Rambur, 1842) [*Euphaea picta*]  
 Syn. *Thore saundersii* Selys, 1853  
 Syn. *Thore saundersii picturata* Selys, 1873  
*Polythore procera* (Selys, 1869) [*Thore (?gigantea) procera*]  
*Polythore spaeteri* Burmeister & Börzsöny, 2003  
*Polythore terminata* Fraser, 1946 [*Polythore derivata terminata*]  
*Polythore victoria* (McLachlan, 1869) [*Thore victoria*]  
*Polythore vittata* (Selys, 1869) [*Thore (?picta) vittata*]  
 Syn. *Thore albovittata* Selys, 1873  
 Syn. *Thore picta aequatorialis* Selys, 1873  
 Syn. *Thore acostai* Navás, 1924  
 Syn. *Thore tincta* Navas, 1924  
*Polythore williamsoni* (Förster, 1903) [*Thore williamsoni*]

**Stenocora** Kennedy, 1940  
*Stenocora percornuta* Kennedy, 1940 \*



Cluster 2: Taxa formerly placed in the family Amphipterygidae (*sensu lato*)

Family **Amphipterygidae** Tillyard, 1917

**Amphipteryx** Selys, 1853

*Amphipteryx agrioides* Selys, 1853 \*

Syn. *Amphipteryx longicaudatus* Gonzáles-Soriano, 1991

*Amphipteryx chiapensis* Gonzáles-Soriano, 2010

*Amphipteryx jaroli* Jocque & Argueta, 2014

*Amphipteryx meridionale* Gonzáles-Soriano, 2010 [*Amphipteryx meridionalis*]

*Amphipteryx nataliae* Gonzáles-Soriano, 2010

Family **Devadattidae** Dijkstra, Kalkman, Dow, Stokvis & van Tol, 2014

**Devadatta** Kirby, 1890

Syn. *Tetraneura* Selys, 1859 (preoccupied name) [\* *argyoides*]

*Devadatta aran* Dow, Hämäläinen & Stokvis, 2015

*Devadatta argyoides* (Selys, 1859) [*Tetranevra argyoides*] \*

– *Devadatta argyoides argyoides* (Selys, 1859)

– *Devadatta argyoides tiomanensis* Laidlaw, 1934

*Devadatta basilanensis* Laidlaw, 1934 [*Devadatta podolestoides basilanensis*]

Syn. *Devadatta filipina* Needham & Gyger, 1939

*Devadatta clavicauda* Dow, Hämäläinen & Stokvis, 2015

*Devadatta cyanocephala* Hämäläinen, Sasamoto & Karube, 2006

*Devadatta ducatrix* Lieftinck, 1969

*Devadatta glaucinotata* Sasamoto, 2003

*Devadatta kompieri* Phan, Sasamoto & Hayashi, 2015

*Devadatta multinervosa* Fraser, 1933

*Devadatta podolestoides* Laidlaw, 1934

*Devadatta somoh* Dow, Hämäläinen & Stokvis, 2015

*Devadatta tanduk* Dow, Hämäläinen & Stokvis, 2015

*Devadatta yokoi* Phan, Sasamoto & Hayashi, 2015

Family **Lestoideidae** Munz, 1919

Subfamily **Diphlebiinae** Heymer, 1975

**Diphlebia** Selys, 1869

Syn. *Dineura* Selys, 1859 [*Dinevra*] (preoccupied name) [\* *lestoides*]

*Diphlebia coerulescens* Tillyard, 1913 [*Diphlebia euphoeoides coerulescens*]

*Diphlebia euphoeoides* Tillyard, 1907

Syn. *Diphlebia reinholdi* Förster, 1910

*Diphlebia hybridoides* Tillyard, 1912

*Diphlebia lestoides* (Selys, 1853) [*Amphipteryx lestoides*] \*

– *Diphlebia lestoides lestoides* (Selys, 1853) [*Amphipteryx lestoides*]

– *Diphlebia lestoides tillyardi* Fraser, 1956

*Diphlebia nymphoides* Tillyard, 1912

Subfamily **Lestoideinae** Munz, 1919

**Lestoidea** Tillyard, 1913

*Lestoidea barbarae* Watson, 1967

*Lestoidea brevicauda* Theischinger, 1996

*Lestoidea conjuncta* Tillyard, 1913 \*

*Lestoidea lewisiana* Theischinger, 1996

Family **Pentaplebiidae** Novelo-Gutiérrez, 1995

**Pentaplebia** Förster, 1909

*Pentaplebia gamblesi* Parr, 1977

*Pentaplebia mangana* Dijkstra, Lambret & Mézière in Dijkstra, Kipping & Mézière, 2015

*Pentaplebia stahli* Förster, 1909 \*

Family **Philogangidae** Kennedy, 1920

**Philoganga** Kirby, 1890

Syn. *Anisoneura* Selys, 1859 (preoccupied name) [\* *montana*]

*Philoganga loringae* Fraser, 1927

*Philoganga montana* (Hagen in Selys, 1859) [*Anisonevra montana*] \*

*Philoganga robusta* Navas, 1936

– *Philoganga robusta robusta* Navas, 1936

– *Philoganga robusta infantua* Yang & Li, 1994

*Philoganga vetusta* Ris, 1912

Family **Rimanellidae** Davies & Tobin, 1984

**Rimanella** Needham, 1934

Syn. *Rima* Needham, 1933 (preoccupied name) [\* *arcana*]

*Rimanella arcana* (Needham, 1933) [*Rima arcana*] \*



Cluster 3: Taxa formerly placed in the family Megapodagrionidae (*sensu lato*)

Family **Argiolestidae** Fraser, 1957

Subfamily **Argiolestinae** Fraser, 1957

**Archiargiolestes** Kennedy, 1925

*Archiargiolestes parvulus* (Watson, 1977) [*Argiolestes parvulus*]

*Archiargiolestes pusillissimus* Kennedy, 1925 \*

*Archiargiolestes pusillus* (Tillyard, 1908) [*Argiolestes minimus pusillus*]

**Argiolestes** Selys, 1862

*Argiolestes alfurus* Lieftinck, 1956

*Argiolestes amphistylus* Lieftinck, 1949

*Argiolestes australis* (Guérin, 1832) [*Agrion australis*] \*

*Argiolestes celebensis* Kalkman, 2007

*Argiolestes foja* Kalkman, Richards & Polhemus, 2010

*Argiolestes macrostylis* Ris, 1913

*Argiolestes muller* Kalkman, Richards & Polhemus, 2010

*Argiolestes obiensis* Lieftinck, 1956

*Argiolestes pallidistylus* Selys, 1878 [*Argiolestes pallistyla*]

*Argiolestes roon* Kalkman, Richards & Polhemus, 2010

*Argiolestes tuberculiferus* Michalski & Opiel, 2010

*Argiolestes zane* Kalninš, 2014

**Austroargiolestes** Kennedy, 1925

Syn. *Risiolestes* Fraser, 1926 [\* *icteromelas*]

*Austroargiolestes alpinus* (Tillyard, 1913) [*Argiolestes alpinus*]

*Austroargiolestes amabilis* (Förster, 1899) [*Argiolestes amabilis*]

*Austroargiolestes aureus* (Tillyard, 1906) [*Argiolestes aureus*]

*Austroargiolestes brookhousei* Theischinger & O'Farrell, 1986

*Austroargiolestes calcaris* (Fraser, 1958) [*Argiolestes calcaris*]

*Austroargiolestes christine* Theischinger & O'Farrell, 1986

*Austroargiolestes chrysoides* (Tillyard, 1913) [*Argiolestes chrysoides*]

*Austroargiolestes elke* Theischinger & O'Farrell, 1986

*Austroargiolestes icteromelas* (Selys, 1862) [*Argiolestes icteromelas*] \*

– *Austroargiolestes icteromelas icteromelas* (Selys, 1862) [*Argiolestes icteromelas*]

Syn. *Argiolestes icteromelas nobilis* Tillyard, 1913

– *Austroargiolestes icteromelas nigrolabiatus* Theischinger & O'Farrell, 1986

Syn. *Argiolestes calcaris tenuis* Fraser, 1959 (homonym)

*Austroargiolestes isabellae* Theischinger & O'Farrell, 1986

**Caledargiolestes** Kennedy, 1925

*Caledargiolestes janiceae* Lieftinck, 1975

*Caledargiolestes uniseries* (Ris, 1915) [*Argiolestes uniseries*] \*

**Caledopteryx** Kennedy, 1925*Caledopteryx maculata* Winstanley & Davies, 1982*Caledopteryx sarasini* (Ris, 1915) [*Argiolestes sarasini*] \***Celebargiolestes** Kennedy, 1925*Celebargiolestes cinctus* (Selys, 1886) [*Argiolestes cincta*] \*Syn. *Argiolestes karnyi* Fraser, 1926**Eoargiolestes** Kalkman & Theischinger, 2013*Eoargiolestes ochraceus* (Montrousier in Perroud & Montrousier, 1864) [*Sympecma ochracea*] \*Syn. *Argiolestes rouxi* Ris, 1915**Griseargiolestes** Theischinger, 1998*Griseargiolestes albescens* (Tillyard, 1913) [*Argiolestes griseus albescens*]*Griseargiolestes bucki* Theischinger, 1998*Griseargiolestes eboracus* (Tillyard, 1913) [*Argiolestes griseus eboracus*]*Griseargiolestes fontanus* (Tillyard, 1913) [*Argiolestes fontanus*]*Griseargiolestes griseus* (Hagen in Selys, 1862) [*Argiolestes grisea*] \*– *Griseargiolestes griseus griseus* (Hagen in Selys, 1862) [*Argiolestes grisea*]– *Griseoargiolestes griseus subgriseus* (Fraser, 1959) [*Argiolestes griseus subgriseus*]– *Griseoargiolestes griseus tenuis* (Tillyard, 1913) [*Argiolestes griseus tenuis*]*Griseargiolestes intermedius* (Tillyard, 1913) [*Argiolestes griseus intermedius*]*Griseargiolestes metallicus* (Sjöstedt, 1917) [*Argiolestes metallicus*]**Luzonargiolestes** Kalkman & Theischinger, 2013*Luzonargiolestes baltazarae* (Gapud & Recuenco-Adorada, 2001) [*Argiolestes baltazarae*]*Luzonargiolestes realensis* (Gapud & Recuenco, 1993) [*Argiolestes realensis*] \***Metagrion** Calvert, 1913*Metagrion aurantiacum* (Ris, 1898) [*Argiolestes aurantiaca*]*Metagrion coartans* (Lieftinck, 1956) [*Argiolestes coartans*]*Metagrion connectens* (Lieftinck, 1956) [*Argiolestes connectens*]*Metagrion convergens* (Lieftinck, 1949) [*Argiolestes convergens*]*Metagrion fontinale* (Lieftinck, 1956) [*Argiolestes fontinalis*]*Metagrion fornicatum* (Theischinger & Richards, 2007) [*Argiolestes fornicatus*]*Metagrion indentatum* (Theischinger & Richards, 2006) [*Argiolestes indentatus*]*Metagrion lamprostomum* (Lieftinck, 1949) [*Argiolestes lamprostomus*]*Metagrion montivagans* (Förster, 1900) [*Wahnesia montivagans*]*Metagrion ochrostomum* (Lieftinck, 1949) [*Argiolestes ochrostomus*]*Metagrion ornatum* (Selys, 1878) [*Argiolestes ornata*]Syn. *Argiolestes obscura* Selys, 1878*Metagrion pectitum* (Lieftinck, 1949) [*Argiolestes pectitus*]*Metagrion postnodale* (Selys, 1878) [*Argiolestes postnodalis*] \**Metagrion sponsus* (Lieftinck, 1956) [*Argiolestes sponsus*]*Metagrion subornatum* (Lieftinck, 1935) [*Argiolestes ornatus subornatus*]*Metagrion trigonale* (Theischinger & Richards, 2008) [*Argiolestes trigonalis*]*Metagrion triste* (Lieftinck, 1935) [*Argiolestes tristis*]*Metagrion verrucatum* (Michalski & Oppel, 2010) [*Argiolestes verrucatus*]**Miniargiolestes** Theischinger, 1998*Miniargiolestes minimus* (Tillyard, 1908) [*Argiolestes minimus*] \*



**Podopteryx** Selys, 1871*Podopteryx casuarina* Lieftinck, 1949*Podopteryx roseonotata* Selys, 1871 [*Podopteryx roseo-notata*] \**Podopteryx selysi* (Förster, 1899) [*Argiolestes selysi*]**Pyrrhargiolestes** Kalkman & Theischinger, 2013*Pyrrhargiolestes angulatus* (Theischinger & Richards, 2007) [*Argiolestes angulatus*]*Pyrrhargiolestes aulicus* (Lieftinck, 1949) [*Argiolestes aulicus*]*Pyrrhargiolestes kula* (Englund & Polhemus, 2007) [*Argiolestes kula*]*Pyrrhargiolestes lamington* Kalkman & Theischinger, 2013*Pyrrhargiolestes sidonia* (Martin, 1909) [*Argiolestes sidonia*] \**Pyrrhargiolestes tenuispinus* (Lieftinck, 1938) [*Argiolestes tenuispinus*]*Pyrrhargiolestes yela* Kalkman & Theischinger, 2013**Solomonargiolestes** Kalkman & Theischinger, 2013*Solomonargiolestes bougainville* (Kalkman, 2008) [*Argiolestes bougainville*] \**Solomonargiolestes malaita* (Kalkman, 2008) [*Argiolestes malaita*]**Trineuragrion** Ris, 1915*Trineuragrion percostale* Ris, 1915 \***Wahnesia** Förster, 1900*Wahnesia annulipes* (Lieftinck, 1956) [*Argiolestes annulipes*]*Wahnesia armeniaca* (Lieftinck, 1956) [*Argiolestes armeniacus*]*Wahnesia ephippiata* (Lieftinck, 1956) [*Argiolestes ephippiatus*]*Wahnesia esuriens* (Lieftinck, 1956) [*Argiolestes esuriens*]*Wahnesia gizo* (Kalkman, 2008) [*Argiolestes gizo*]*Wahnesia kirbyi* Förster, 1900 \**Wahnesia luteipes* (Lieftinck, 1956) [*Argiolestes luteipes*]*Wahnesia microstigma* (Lieftinck, 1956) [*Argiolestes microstigma*]*Wahnesia prothoracalis* (Lieftinck, 1956) [*Argiolestes prothoracalis*]*Wahnesia saltator* (Lieftinck, 1956) [*Argiolestes saltator*]*Wahnesia saltuaria* (Lieftinck, 1956) [*Argiolestes saltuarius*]*Wahnesia simplex* (Lieftinck, 1949) [*Argiolestes simplex*]Subfamily **Podolestinae** Kalkman & Theischinger, 2013**Allolestes** Selys, 1869*Allolestes maclachlanii* Selys, 1869 \*Syn. *Allolestes nigra* Martin, 1896**Nesolestes** Selys, 1891*Nesolestes albicauda* Fraser, 1952*Nesolestes albicolor* Fraser, 1955*Nesolestes alboterminatus* Selys, 1891 [*Nesolestes alboterminata*] \**Nesolestes angydna* Schmidt, 1951*Nesolestes drocera* Fraser, 1951*Nesolestes elisabethae* Lieftinck, 1965*Nesolestes forficuloides* Fraser, 1955*Nesolestes mariae* Aguesse, 1968*Nesolestes martini* Schmidt, 1951

*Nesolestes pauliani* Fraser, 1951  
*Nesolestes pulverulans* Lieftinck, 1965  
*Nesolestes radama* Lieftinck, 1965  
*Nesolestes ranavalona* Schmidt, 1951  
*Nesolestes robustus* Aguesse, 1968  
*Nesolestes rubristigma* Martin, 1902  
*Nesolestes tuberculicollis* Fraser, 1949

**Neurolestes** Selys, 1882 [*Nevrolestes*]  
*Neurolestes nigeriensis* (Gambles, 1970) [*Nesolestes nigeriensis*]  
*Neurolestes trinervis* Selys, 1885 [*Nevrolestes trinervis*] \*

**Podolestes** Selys, 1862  
*Podolestes atomarius* Lieftinck, 1950  
*Podolestes buwaldai* Lieftinck, 1940  
*Podolestes chrysopus* Selys, 1889  
*Podolestes coomansi* Lieftinck, 1940  
*Podolestes furcifer* Lieftinck, 1950  
*Podolestes harrissoni* Lieftinck, 1953  
*Podolestes orientalis* Selys, 1862 \*  
*Podolestes pandanus* Wilson & Reels, 2001

Family **Heteragrionidae** Ráčenis, 1959

**Heteragrion** Selys, 1862 **Note 39**  
*Heteragrion aequatoriale* Selys, 1886  
*Heteragrion albifrons* Ris, 1918  
*Heteragrion alienum* Williamson, 1919  
*Heteragrion angustipenne* Selys, 1886 [*Heteragrion (?aequatoriale) angustipenne*]  
*Heteragrion archon* De Marmels, 2008  
*Heteragrion atrolineatum* Donnelly, 1992  
*Heteragrion aurantiacum* Selys, 1862  
                     Syn. *Heteragrion (aurantiacum) amazonicum* Selys, 1886  
*Heteragrion azulum* Dunkle, 1989  
*Heteragrion bariai* De Marmels, 1989  
*Heteragrion beschkii* Hagen in Selys, 1862  
*Heteragrion bickorum* Daigle, 2005  
*Heteragrion breweri* De Marmels, 1989  
*Heteragrion brianmayi* Lencioni, 2013  
*Heteragrion calendulum* Williamson, 1919  
*Heteragrion chlorotaeniatum* De Marmels, 1989  
*Heteragrion chrysops* Hagen in Selys, 1862  
*Heteragrion cinnamomeum* Selys, 1862 [*Heteragrion (?aurantiacum) cinnamomeum*]  
                     Syn. *Heteragrion macilentum* Hagen in Selys, 1862  
*Heteragrion consors* Hagen in Selys, 1862  
*Heteragrion cooki* Daigle & Tennessen, 2000  
*Heteragrion cyane* Machado & De Souza, 2014  
*Heteragrion dorsale* Selys, 1862

-----  
**Note 43.** The synonymic genus name *Leptogaster* Selys in Hagen, 1861 is a *nomen nudum*.

- Heteragrion eboratum* Donnelly, 1965  
*Heteragrion erythrogastrum* Selys, 1886  
*Heteragrion flavidorsum* Calvert, 1909  
   Syn. *Heteragrion speciosum* Sjöstedt, 1918  
*Heteragrion flavovittatum* Selys, 1862 \*  
*Heteragrion freddiemercuryi* Lencioni, 2013  
*Heteragrion gracile* Machado, 2006  
*Heteragrion ictericum* Williamson, 1919  
*Heteragrion icterops* Selys, 1862  
   ?Syn. *Heteragrion romani* Sjöstedt, 1918  
*Heteragrion inca* Calvert, 1909  
*Heteragrion johndeaconi* Lencioni, 2013  
*Heteragrion luizfelipei* Machado, 2006  
*Heteragrion majus* Selys, 1886  
*Heteragrion makiritare* De Marmels, 2004  
*Heteragrion mantiqueirae* Machado, 2006  
*Heteragrion melanurum* Williamson, 1919  
*Heteragrion mitratum* Williamson, 1919  
   – *Heteragrion mitratum mitratum* Williamson, 1919  
   – *Heteragrion mitratum atroterminatum* Donnelly, 1992  
*Heteragrion muryense* Costa & Santos, 2000  
*Heteragrion obsoletum* Selys, 1886  
*Heteragrion ochraceum* Hagen in Selys, 1862  
*Heteragrion ovatum* Selys, 1862  
*Heteragrion palmichale* Hartung, 2002  
*Heteragrion pemon* De Marmels, 1987  
*Heteragrion peregrinum* Williamson, 1919  
*Heteragrion petiense* Machado, 1988  
*Heteragrion rogertaylori* Lencioni, 2013  
*Heteragrion rubrifulvum* Donnelly, 1992  
*Heteragrion silvarum* Sjöstedt, 1918  
*Heteragrion simulatum* Williamson, 1919  
*Heteragrion thais* Machado, 2015  
*Heteragrion tiradentense* Machado & Bedé, 2006  
*Heteragrion triangulare* Hagen in Selys, 1862  
*Heteragrion tricellulare* Calvert, 1901  
*Heteragrion valgum* Donnelly, 1992

- Oxystigma** Selys, 1862  
*Oxystigma caeruleans* De Marmels, 1987  
*Oxystigma cyanofrons* Williamson, 1919  
*Oxystigma petiolatum* (Selys, 1862) [*Heteragrion petiolatum*] \*  
   Syn. *Oxystigma williamsoni* Geijskes, 1976

Family **Hypolestidae** Fraser, 1938

- Hypolestes** Gundlach, 1888  
   Syn. *Ortholestes* Calvert, 1891 [\* *clara*]

- Hypolestes clara* (Calvert, 1891) [*Ortholestes clara*]  
*Hypolestes hatuey* Torres-Cambas in Torres-Cambas, Lorenzo-Caballa, Ferreira & Cordero-Rivera, 2015

*Hypolestes trinitatis* (Gundlach, 1888) [*Lestes (Hypolestes)trinitatis*] \*  
Syn. *Ortholestes abbotti* Calvert, 1894

Family **Megapodagrionidae** Calvert, 1913

**Allopodagrion** Förster, 1910

*Allopodagrion brachyurum* De Marmels, 2001

*Allopodagrion contortum* (Hagen in Selys, 1862) [*Podagrion contortum*] \*

*Allopodagrion erinys* (Ris, 1913) [*Megapodagrion erinys*]

**Megapodagrion** Selys, 1885

Syn. *Podagrion* Selys, 1862 (preoccupied name) [\* *megalopus*]

*Megapodagrion megalopus* (Selys, 1862) [*Podagrion megalopus*] \*

Syn. *Megapodagrion arachne* Rácenis, 1959

**Teinopodagrion** De Marmels, 2001

*Teinopodagrion angulatum* De Marmels, 2001

*Teinopodagrion caquetanum* De Marmels, 2001

*Teinopodagrion chinchaysuyum* De Marmels, 2001

*Teinopodagrion croizati* De Marmels, 2002

*Teinopodagrion curtum* (Selys, 1886) [*Megadagrion curtue* (Sic!)]

*Teinopodagrion decipiens* De Marmels, 2001

*Teinopodagrion depressum* De Marmels, 2001

*Teinopodagrion epidrium* De Marmels, 2001

*Teinopodagrion eretes* De Marmels, 2001

*Teinopodagrion lepidum* (Rácenis, 1959) [*Megapodagrion (Allopodagrion) lepidum*]

*Teinopodagrion macropus* (Selys, 1862) [*Podagrion macropus*] \*

*Teinopodagrion mercenarium* (Hagen, 1869) [*Podagrion mercenarium*]

*Teinopodagrion meridionale* De Marmels, 2001

*Teinopodagrion muzanum* (Navás, 1934) [*Argia muzana*]

*Teinopodagrion nebulosum* (Selys, 1886) [*Megapodagrion nebulosum*]

*Teinopodagrion oscillans* (Selys, 1862) [*Podagrion oscillans*]

*Teinopodagrion schiessi* De Marmels, 2001

*Teinopodagrion setigerum* (Selys, 1886) [*Megapodagrion setigerum*]

*Teinopodagrion temporale* (Selys, 1862) [*Podagrion temporale*]

*Teinopodagrion turikum* De Marmels, 2001

*Teinopodagrion vallenatum* De Marmels, 2001

*Teinopodagrion venale* (Hagen in Selys, 1862) [*Podagrion venale*]

*Teinopodagrion vilorianum* De Marmels, 2001

*Teinopodagrion waynu* De Marmels, 2001

*Teinopodagrion yunka* De Marmels, 2001

Family **Philogeniidae** Rácenis, 1959

**Archaeopodagrion** Kennedy, 1939

*Archaeopodagrion armatum* Tennessen & Johnson, 2009

*Archaeopodagrion bicorne* Kennedy, 1939 \*

*Archaeopodagrion bilobatum* Kennedy, 1946 [*Archaeopodagrion bilobata*]

**Philogenia** Selys, 1862Syn. *Agnophilogenia* Kennedy, 1941 [\* *A. monotis*]

- Philogenia augusti* Calvert, 1924  
*Philogenia berenice* Higgins, 1901  
*Philogenia boliviana* Bick & Bick, 1988  
*Philogenia buenavista* Bick & Bick, 1988  
*Philogenia carrillica* Calvert, 1907  
*Philogenia cassandra* Hagen *in* Selys, 1862  
*Philogenia championi* Calvert, 1901  
*Philogenia compressa* Dunkle, 1990  
*Philogenia cristalina* Calvert, 1924  
*Philogenia ebona* Dunkle, 1986  
*Philogenia elisabeta* Calvert, 1924  
*Philogenia expansa* Calvert, 1924  
*Philogenia ferox* Rácenis, 1959  
*Philogenia helena* Hagen, 1869  
*Philogenia iquita* Dunkle, 1990  
*Philogenia lankesteri* Calvert, 1924  
*Philogenia leonora* Westfall & Cumming, 1956  
*Philogenia macuma* Dunkle, 1986  
*Philogenia mangosisa* Bick & Bick, 1988  
   ?Syn. *Philogenia marinasilva* Machado, 2010  
*Philogenia margarita* Selys, 1862 \*  
*Philogenia minteri* Dunkle, 1986  
*Philogenia monotis* (Kennedy, 1941) [*Agnophilogenia monotis*]  
*Philogenia nemesioi* Machado, 2013  
*Philogenia peacocki* Brooks, 1989  
*Philogenia peruviana* Bick & Bick, 1988  
*Philogenia polyxena* Calvert, 1924  
*Philogenia raphaella* Selys, 1886  
*Philogenia redundca* Cook, 1989  
*Philogenia schmidtii* Ris, 1918  
*Philogenia silvarum* Ris, 1918  
*Philogenia strigilis* Donnelly, 1989  
*Philogenia sucra* Dunkle, 1986  
*Philogenia terraba* Calvert, 1907  
*Philogenia tinalandia* Bick & Bick, 1988  
*Philogenia umbrosa* Ris, 1918  
*Philogenia zeteki* Westfall & Cumming, 1956

Family **Philosinidae** Kennedy, 1925**Philosina** Ris, 1917 **Note 44**

- Philosina alba* Wilson, 1999  
*Philosina buchi* Ris, 1917 \*  
 -----

**Note 44.** He (2007) described and illustrated "*Philosina longquanensis* sp. nov." from China. However, since the holotype (or syntypes) were not fixed (see Article 16.4), this name is not available for zoological nomenclature. It is concluded from the description and photographs that it refers to female of a *Rhipidolestes* species.

**Rhinagrion** Calvert, 1913Syn. *Amphilestes* Selys, 1862 (preoccupied name) [\* *macrocephala*]*Rhinagrion borneense* (Selys, 1886) [*Amphilestes* (?*macrocephala*) *borneensis*]*Rhinagrion elopuræ* (McLachlan in Selys, 1886) [*Amphilestes elopuræ*]*Rhinagrion hainanense* Wilson & Reels, 2001Syn. *Rhinagrion yokoi* Sasamoto, 2003*Rhinagrion macrocephalum* (Selys, 1862) [*Amphilestes macrocephala*] \**Rhinagrion mima* (Karsch, 1891) [*Amphilestes mima*]*Rhinagrion philippinum* (Selys, 1882) [*Amphilestes philippina*]*Rhinagrion reinhardi* Kalkman & Villanueva, 2011*Rhinagrion schneideri* Kalkman & Villanueva, 2011*Rhinagrion tricolor* (Krüger, 1898) [*Amphilestes tricolor*]*Rhinagrion viridatum* Fraser, 1938 [*Rhinagrion viridata*]Family **Pseudolestidae** Fraser, 1957**Pseudolestes** Kirby, 1900*Pseudolestes mirabilis* Kirby, 1900 \*Family **Thaumatoneuridae** Fraser, 1938**Paraphlebia** Selys in Hagen, 1861*Paraphlebia duodecima* Calvert, 1901*Paraphlebia hyalina* Brauer, 1871*Paraphlebia quinta* Calvert, 1901Syn. *Paraphlebia abrogata* Calvert, 1907*Paraphlebia zoe* Selys in Hagen, 1861 \***Thaumatoneura** McLachlan, 1897*Thaumatoneura inopinata* McLachlan, 1897 \*Syn. *Thaumatoneura pellucida* Calvert, 1904***Incertae sedis*** - genera formerly placed in Megapodagrionidae,  
but not yet classified into families**"Group 1"****Agriomorpha** May, 1933*Agriomorpha fusca* May, 1933 \**Agriomorpha xinglongensis* (Wilson & Reels, 2001) [*Burmargiolestes xinglongensis*]**Bornargiolestes** Kimmins, 1936*Bornargiolestes fuscus* Dow, 2014*Bornargiolestes nigra* Kimmins, 1936 \**Bornargiolestes relsi* Dow, 2014

**Burmargiolestes** Kennedy, 1925*Burmargiolestes laidlawi* Lieftinck, 1960*Burmargiolestes melanothorax* (Selys, 1891) [*Argiolestes melanothorax*] \*  
Syn. *Burmargiolestes flaviceps* Fraser, 1933**Rhipidolestes** Ris, 1912Syn. *Calilestes* Fraser, 1926 [\* *pallidistigma*]Syn. *Taolestes* Needham, 1929 [\* *nectans*]Syn. *Lestomima* May, 1933 [\* *flavostigma*]*Rhipidolestes aculeatus* Ris, 1912 [*Rhipidolestes aculeata*] \* **Note 45***Rhipidolestes alleni* Wilson, 2000*Rhipidolestes amamiensis* Ishida, 2005– *Rhipidolestes amamiensis amamiensis* Ishida, 2005– *Rhipidolestes amamiensis tokunoshimensis* Ishida, 2005*Rhipidolestes apicatus* Navás, 1934*Rhipidolestes asatoi* Asahina, 1994*Rhipidolestes bastiaani* Zhu & Yang, 1998*Rhipidolestes bidens* Schmidt, 1931*Rhipidolestes chaoi* Wilson, 2004*Rhipidolestes cyanoflavus* Wilson, 2000*Rhipidolestes fascia* Zhou, 2003*Rhipidolestes hiraoui* Yamamoto, 1955*Rhipidolestes janetae* Wilson, 1997*Rhipidolestes jucundus* Lieftinck, 1948*Rhipidolestes laui* Wilson & Reels, 2003*Rhipidolestes lii* Zhou, 2003*Rhipidolestes malaisei* Lieftinck, 1948*Rhipidolestes nectans* (Needham, 1929) [*Taolestes nectans*]*Rhipidolestes okinawanus* Asahina, 1951 [*Rhipidolestes okinawana*] **Note 46**Syn. *Argia apicalis* Matsumura, 1913 (homonym)*Rhipidolestes owadai* Asahina, 1997*Rhipidolestes pallidistigma* (Fraser, 1926) [*Calilestes pallidistigma*]*Rhipidolestes rubripes* (Navás, 1936) [*Taolestes rubripes*]*Rhipidolestes shozoi* Ishida, 2005*Rhipidolestes truncatidens* Schmidt, 1931Syn. *Lestomima flavostigma* May, 1933*Rhipidolestes yakusimensis* Asahina, 1951 [*Rhipidolestes aculeatus yakusimensis*]Syn. *Rhipidolestes aculeatus kyushuensis* Asahina, 1993 **Note 47***Rhipidolestes yangbingi* Davies, 1998

-----  
**Note 45.** The infrasubspecific names [*Rhipidolestes aculeatus*] forma *montanus* Asahina, 1993 and [*Rhipidolestes aculeatus*] forma *sakishimanus* Asahina, 1993 are not available names.

**Note 46.** The infrasubspecific names [*Rhipidolestes okinawanus*] forma *tokashikiensis* Asahina, 1994, [*Rhipidolestes okinawanus*] forma *tokunoshimensis* Asahina, 1994 and [*Rhipidolestes okinawanus*] forma *amamiensis* Asahina, 1994 are not available names.

**Note 47.** The name *kyushuensis* Asahina, 1993 was first published as a subspecies of *Rhipidolestes aculeatus*. Therefore it is an available name, although the author later downgraded its status to a 'form' of *Rhipidolestes aculeatus yakusimensis* Asahina, 1951.

**"Group 2"*****Amanipodagrion*** Pinhey, 1962*Amanipodagrion gilliesi* Pinhey, 1962 \***"Group 3"*****Dimeragrion*** Calvert, 1913*Dimeragrion clavijoi* De Marmels, 1999*Dimeragrion mesembrinum* De Marmels, 1989*Dimeragrion percubitale* Calvert, 1913 \**Dimeragrion secundum* Needham, 1933*Dimeragrion unturanense* De Marmels, 1992***Heteropodagrion*** Selys, 1885Syn. *Neuragrion* Karsch, 1891 [\* *mysticum*]*Heteropodagrion croizati* Perez-Gutierrez & Montes-Fontalvo, 2011*Heteropodagrion nigripes* Daigle, 2014*Heteropodagrion sanguinipes* Selys, 1885 \*Syn. *Neuragrion mysticum* Karsch, 1891*Heteropodagrion superbum* Ris, 1918*Heteropodagrion varipes* Daigle, 2014***Mesagrion*** Selys, 1885*Mesagrion leucorrhinum* Selys, 1885 \***"Group 4"*****Mesopodagrion*** McLachlan, 1896*Mesopodagrion tibetanum* McLachlan, 1896 \*– *Mesopodagrion tibetanum tibetanum* McLachlan, 1896– *Mesopodagrion tibetanum australe* Yu & Bu, 2009*Mesopodagrion yachowense* Chao, 1953**"Group 5"*****Priscagrion*** Zhou & Wilson, 2001*Priscagrion kiautai* Zhou & Wilson, 2001 \**Priscagrion pinheyi* Zhou & Wilson, 2001***Sinocnemis*** Wilson & Zhou, 2000*Sinocnemis dumonti* Wilson & Zhou, 2000*Sinocnemis henanese* Wang, 2003*Sinocnemis yangbingi* Wilson & Zhou, 2000 \***"Group 6"*****Protolestes*** Förster, 1899*Protolestes fickei* Förster, 1899 \**Protolestes furcatus* Aguesse, 1967



*Protolestes kerckhoffae* Schmidt in Fraser, 1949  
*Protolestes leonora* Schmidt in Fraser, 1949  
*Protolestes milloti* Fraser, 1949  
*Protolestes proselytus* Lieftinck, 1965  
*Protolestes rufescens* Aguesse, 1967  
*Protolestes simonae* Aguesse, 1967 [*Protolestes simonei*]

"Group 7" (family-group name 'Tatocnemidinae Rácenis, 1959' is available)

**Tatocnemis** Kirby, 1889

Syn. *Nesocnemis* Selys, 1891 (\* *sinuatipennis*) **Note 48**

*Tatocnemis crenulatipennis* Fraser, 1952  
*Tatocnemis denticularis* Aguesse, 1968  
*Tatocnemis emarginatipennis* Fraser, 1960  
*Tatocnemis malgassica* Kirby, 1889 \*  
*Tatocnemis mellisi* Schmidt, 1951  
*Tatocnemis micromalgassica* Aguesse, 1968  
*Tatocnemis olsufieffi* Schmidt, 1951  
*Tatocnemis robinsoni* Schmidt, 1951  
*Tatocnemis sinuatipennis* (Selys, 1891) [*Nesocnemis sinuatipennis*]  
*Tatocnemis virginiae* Legrand, 1992

"Group 8"

**Sciotropis** Rácenis, 1959

*Sciotropis cyclanthorum* Rácenis, 1959 \*  
*Sciotropis lattkei* De Marmels, 1994

-----  
**Note 48.** *Nesocnemis* Selys, 1891 is a homonym of *Nesocnemis* Selys, 1891 (a replacement name for the platycnemidid genus *Prionocnemis* Selys, 1886. The earlier 'Nesocnemis Selys, 1891' is a senior synonym of *Risioctnemis* Cowley, 1934; see Hämäläinen (1991).



*Rhinocypha liberata* Lieftinck, 1949  
 Artwork by A.G. Orr (2013)