

COMMENTED CHECKLIST OF THE ODONATA OF SURINAM

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A list is given of 283 spp. and sspp., referable to 87 genera of 15 families. Some additional taxa are evidenced but remain unidentified. Notes are supplied on some spp.; *Hetaerina cruentata* (Ramb.), *Argia extranea* (Hag.), *Phyllocycla signata* (Hag.), *Phyllogomphoides audax* (Hag.), *Dythemis sterilis* Hag., *D. velox* Hag., *Erythrodiplax attenuata* (Kirby), *E. ochracea* (Burm.), *E. aequatorialis* Ris and *Perithemis waltheri* Ris are deleted from the national list.

INTRODUCTION

In his recent World List, TSUDA (2000) catalogued 196 species that were so far published from Surinam. The below list covers all the 282 species currently known to occur in that country. Most of these were evidenced during 1938-1965 by the late Dr D.C. Geijskes; merely ca 60 species were documented in the older literature. By 1953, when I became involved in field exploration of the Surinamese odonate fauna (1953-1965), his collection included ca 240 species.

Save for the Gomphidae, the listing is mainly based on the identifications by Geijskes, while liberal use has also been made of the Internet presentation by Dr D.R. Paulson. The lay-out of the checklist follows as much as possible that of DE MARMELS (1990) for the Venezuelan Odonata.

CHECKLIST OF DRAGONFLIES RECORDED FROM SURINAM

[up to March 2001]

The Checklist includes 94 Zygoptera species (in 31 genera, 11 families) and 189 Anisoptera species (in 56 genera, 4 families). The asterisked (*) taxa are commented upon on pp. 5-6.

* Author deceased 21 August 2001.

- Calopterygidae**
- HETAERINA* Selys, 1853
 - dominula* Selys, 1853
 - laesa* Hagen in Selys, 1853
 - majuscula* Selys, 1853
 - moribunda* Selys, 1853
 - mortua* Hagen in Selys, 1853
 - MNESARETE* Cowley, 1934
 - cuprea* (Selys, 1853)
- Megapodagrionidae**
- DIMERAGRION* Calvert, 1913
 - percubitale* Calvert, 1913
 - HETERAGRION* Selys, 1862
 - ictericum* Williamson, 1919
 - melanurum* Williamson, 1919
 - simulatum* Williamson, 1919
 - OXYSTIGMA* Williamson, 1919
 - cyanofrons* Williamson, 1919
 - williamsoni* Geijskes, 1976
- Rimaniellidae**
- RIMANELLA* Needham, 1934
 - arcana* (Needham, 1933)
 - Dicteriastidae*
 - DICTERIAS* Selys, 1853
 - cothurnata* (Förster, 1906)
- Heliocharitidae**
- HELIOCHARIS*
 - amazona* Selys, 1853
- Polythoridae**
- POLYTHORE* Calvert, 1917
 - picta* (Rambur, 1842)
- Lestidae**
- LESTES* Leach, 1815
 - basidens* Belle, 1997
 - curvatus* Belle, 1997
- * *falcifer* Sjöstedt, 1918
- mediorufus* Calvert, 1909
- * *sublatus* Hagen in Selys, 1862
- tenuatus* Rambur, 1842
- trichonus* Belle, 1997
- Perilestidae**
- PERILESTES* Hagen in Selys, 1862
 - attenuatus* Selys, 1886
 - kahli* Wlmsn & Wlmsn, 1924
 - solutus* Wlmsn & Wlmsn, 1924
- PERISSOLESTES** Kennedy, 1941
- guianensis* Wlmsn & Wlmsn, 1924
 - 1 unidentified species
- Protoneuriidae**
- EPIPLEONEURA* Williamson, 1915
 - capilliformis* (Selys, 1886)
- fuscaenea* Williamson, 1915
- lamina* Williamson, 1915
- pereirai* Machado, 1985
- spatulata* Racenis, 1960
- EPIPOTONEURA* Williamson, 1915
- nehalennia* Williamson, 1915
- NEONEURA* Selys, 1860
- * *bilinearis* (Selys, 1860)
- gaida* Racenis, 1953 → sign w/w
- joana* Williamson, 1917
- marianna* Williamson, 1917
- myrthea* Williamson, 1917
- ruriventrata* Selys, 1860 of rubr
- svyatika* Hagen in Selys, 1886
- 4 unidentified species
- PHASMONEURA* Williamson, 1916
- exigua* (Selys, 1886)
- PROTONEURA* Selys, 1857
- calverti* Williamson 1915
- tenuis* Selys, 1860
- PSAIRONEURA* Williamson, 1915
- tenuissima* (Selys, 1886)
- Coenagrionidae**
- ACANTHAGRION* Selys, 1876
 - abunae* Leonard, 1977
 - adustum* Williamson, 1916
 - apicale* (Selys, 1876)
 - chacoense* Calvert, 1909
 - indefensum* Williamson 1916
 - luteum* Racenis, 1958
 - rubrifrons* Leonard, 1977
 - 2 unidentified species
- AEOLAGRION* Williamson, 1917
- dorsale* (Burmeister, 1839) - ♂
 - flammeum* (Selys, 1876)
- ARGIA* Rambur 1842
- fumigata* Hagen in Selys, 1865
 - insipida* Hagen in Selys, 1865
 - oculata* Hagen in Selys, 1865
 - thespis* Hagen in Selys, 1865
 - translata* Hagen in Selys, 1865
- * 3 unidentified species
- INPABASIS* Santos, 1961
- eliasi* Santos, 1961
- ISCHNURA* Charpentier, 1840
- capreolus* (Hagen, 1861)
 - fluvialis* Selys, 1876
 - hastata* (Say, 1839)
 - ramburi* (Selys, 1850)
- LEPTAGRION* Selys, 1876
- aculeatum* Santos, 1965

- croceum* (Burmeister, 1839)
- LEPTOBASIS* Selys, 1877
- mammilaris* Calvert, 1909 → *Tubercul*
- vacillans* Hagen in Selys, 1877
- 1 unidentified species
- **METALEPTOBASIS* Calvert 1907
- brysonima* Williamson, 1915
- cyanolineata* Wasscher, 1998
- fernandezii* Racenis, 1955
- mauritia* Williamson, 1915
- tetragena* Calvert, 1948
- weibe Zahni* Racenis, 1955
- NEHALENNIA* Selys, 1850
- minuta* (Selys, 1857) ssp.
- OXYAGRION*
- egleri* (Santos, 1961)
- TELEBASIS* Selys, 1865
- carminita* Calvert, 1909
- demerarum* (Williamson, 1917) → α.
- sanguinalis* Calvert, 1909 → *Simep.*
- 1 unidentified species
- Pseudostigmatae*
- MECISTOGASTER* Rambur, 1842
- linearis* (Fabricius, 1777)
- lucretia* (Drury, 1773)
- ornata* Rambur, 1842
- MICROSTIGMA* Rambur, 1842
- maculatum* Hagen in Selys, 1860
- Aeshnidae*
- ANAX* Leach, 1815
- amazonica* Burmeister, 1839
- concolor* Brauer, 1865
- CASTORAESCHNA* Calvert, 1952
- castor* (Brauer, 1865)
- CORYPHAESCHNA* Williamson, 1903
- adnexa* (Hagen, 1861)
- viriditas* Calvert, 1952
- GYNACANTHA* Rambur, 1842
- auricularis* Martin, 1909
- gracilis* (Burmeister, 1839)
- interioris* Williamson, 1923
- klagesi* Williamson, 1923
- laticeps* Williamson, 1923
- litoralis* Williamson, 1923
- membranalis* Karsch, 1891
- mexicana* Selys, 1869
- nervosa* Rambur, 1842
- tenuis* Martin, 1909
- NEURAESCHNA* Hagen, 1867
- calverti* Kimmings, 1951
- claviforcipata* Martin, 1909
- cornuta* Belle, 1989
- costalis* (Burmeister, 1839)
- harpya* Martin, 1909
- STAUROPHLEBIA* Brauer, 1865
- auca* Kennedy, 1937
- reticulata* (Burmeister, 1839) ssp.
- wayana* Geijskes 1959
- SUBAESCHNA* Martin, 1909
- francesca* Martin, 1909
- TRIACANTHAGYNA* Selys, 1883
- caribea* Williamson, 1923
- * *dentata* (Geijskes, 1943)
- ditzleri* Williamson, 1923
- satyrus* (Martin, 1909)
- septima* (Selys, 1857)
- G o m p h i d a e
- AGRIOGOMPHUS* Selys, 1869
- ericae* (Belle, 1966)
- sylvicola* (Selys, 1869)
- APHYLLO* Selys, 1854
- brevipes* (Selys, 1854)
- dentata* (Selys, 1859)
- producta* (Selys, 1854)
- * *simulata* (Belle, 1964)
- ARCHAEOGOMPHUS* Williamson, 1919
- hamatus* (Williamson, 1918)
- nanus* Needham, 1944
- CACOIDES* Cowley, 1934
- latro* (Erichson, 1848)
- EBEGOMPHUS* Needham, 1944
- conchinus* (Williamson, 1916)
- demerarae* (Selys, 1894)
- minutus* (Belle, 1970)
- DESMOGOMPHUS* Williamson 1920
- tigrivensis* Williamson, 1920
- EPIGOMPHUS* Hagen in Selys, 1854
- hylaeus* Ris, 1918
- IDIOGOMPHOIDES* Belle, 1984 (supp.)
- * *ictinia* (Selys, 1878) (supp.)
- MELANOCACUS* Belle, 1985
- mungo* (Needham, 1940)
- PHYLLOCYCLA* Calvert, 1948
- modesta* Belle, 1970
- neotropica* Belle, 1970
- ophis* (Selys, 1869)
- PHYLLOGOMPHOIDES* Belle, 1970
- andromeda* (Selys, 1869)
- atlanticus* (Belle, 1970)
- cristatus* (Needham, 1944)
- fuliginosus* (Hagen in Selys, 1854)
- major* Belle, 1984

- undulatus* (Needham, 1944)
PROGOMPHUS Selys, 1854
approximatus Belle, 1966
brachycnemis Needham, 1944
conjectus Belle, 1966
geijskesi Needham, 1944
guyanensis Belle, 1966
pipperi Belle, 1966
tibialis Belle, 1973
ZONOPHORA Selys, 1854
batesi Selys, 1869 ssp.
calippus Selys, 1869
surinamensis Needham, 1944 ssp.
Corduliidae
AESCHNOSOMA Selys, 1870
auripennis Geijskes, 1970
elegans Selys, 1871
forcipula Hagen in Selys, 1871
PARACORDULIA
sericea (Selys, 1871)
Libellulidae
ANATYA Kirby, 1889
guttata (Erichson, 1848)
ARGYROTHEMIS Ris, 1911
* *argentea* Ris, 1911
BRACHYMESEA Kirby, 1889
furcata (Hagen, 1861)
herbida (Gundlach, 1889)
BRECHMORHOGA Kirby, 1894
praedatrix Calvert, 1909
DASYTHEMIS Karsch, 1889
esmeralda Ris, 1910
essequiba Ris 1919
DIASTATOPS Rambur, 1842
dimidiata (Linnaeus, 1758)
obscura (Fabricius, 1775)
pullata (Burmeister, 1839)
DYTHEMIS Hagen, 1861
multipunctata Kirby, 1894 ssp.
ELASMO THEMIS Westfall, 1988
cannacrioides (Calvert, 1906)
williamsoni (Ris, 1919)
ELGA Ris, 1911
leptostyla Ris, 1911
ERYTHEMIS Hagen, 1861
attala (Selys, 1857)
credula (Hagen, 1861)
haematogastra (Burmeister, 1839)
mithroides (Brauer, 1900)
peruviana (Rambur, 1842)
plebeja (Burmeister, 1839)
- * 1 unidentified species
ERYTHRODIPLEX Brauer, 1868
amazonica Sjöstedt, 1918
angustipennis Borror, 1942
basalis (Kirby, 1897)
castanea (Burmeister, 1839)
erratica (Erichson, 1848)
famula (Erichson, 1848)
fervida (Erichson, 1848)
fusca (Rambur, 1842)
juliana Ris, 1911
latimaculata Ris, 1911
laurentia Borror, 1942
longitudinalis (Ris, 1919)
maculosa (Hagen, 1861)
minuscula (Rambur, 1842)
paraguayensis (Förster, 1904)
* *umbrata* (Linnaeus, 1758)
unimaculata (De Geer, 1773)
FYLGIA Kirby, 1889
amazonica Kirby, 1889 ssp.
GYNOTHEMIS Calvert, 1909
uniseta Geijskes, 1972
IDIATAPHE Cowley, 1934
batesi (Ris, 1913)
cubensis (Scudder, 1866)
longipes (Hagen, 1861)
LEPTHEMIS Hagen, 1861
vesiculosa (Fabricius, 1775)
LIBELLULA Linnaeus, 1758
* *herculea* Karsch, 1889
MACROTHEMIS Hagen, 1868
brevidens Belle, 1983
delia Ris, 1913
declinata Calvert, 1909
extensa Ris, 1913
flavescens (Kirby, 1897)
hemichlora (Burmeister, 1839)
musiva Calvert, 1898
polyneura Ris, 1913
pumila Karsch, 1889
MIATHYRIA Kirby, 1889
marcella (Selys, 1857)
simplex (Rambur, 1842)
MICRATHYRIA Kirby, 1889
aequalis (Hagen, 1861)
artemis Ris, 1911
atra (Martin, 1897)
catenata Calvert, 1909
coropinae Geijskes, 1963
dido Ris, 1911

<i>didyma</i> (Selys, 1857)	<i>flavescens</i> (Fabricius, 1798)
<i>dythemooides</i> Calvert, 1909	<i>PERITHEMIS</i> Hagen, 1861
<i>hippolyte</i> Ris, 1911	<i>cornelia</i> Ris, 1910
<i>laevigata</i> Calvert, 1909	<i>electra</i> Ris, 1930
<i>mengeri</i> Ris, 1919 ssp.	<i>lais</i> (Perty, 1834)
<i>ocellata dentiens</i> Calvert, 1909	<i>mooma</i> Kirby, 1889
<i>pseudeximia</i> Westfall, 1992	<i>thais</i> Kirby, 1889
<i>spinifera</i> Calvert, 1909	<i>PLANIPLAX</i> Muttkowski, 1910
<i>surinamensis</i> Geijskes, 1963	<i>arachne</i> Ris, 1912
<i>tibialis</i> Kirby, 1897	<i>phoenicura</i> Ris, 1912
<i>MISAGRIA</i> Kirby, 1889	<i>RHODOPYGIA</i> Kirby, 1889
<i>calverti</i> Geijskes, 1951	<i>cardinalis</i> (Erichson, 1848)
<i>parana</i> Kirby, 1889	<i>geijskesi</i> Belle, 1964
<i>NEPHEPELTIA</i> Kirby, 1889	<i>hollandi</i> Calvert, 1907
<i>flavifrons</i> (Karsch, 1889)	<i>pruinosa</i> Buchholz, 1953
<i>p. phryne</i> (Perty, 1834)	<i>TAURIPHILA</i> Kirby, 1889
<i>NOTHODIPLAX</i> Belle, 1984	<i>argo</i> (Hagen, 1869)
<i>dendrophila</i> Belle, 1984	<i>australis</i> (Hagen, 1867)
<i>OLIGOCLADA</i> Karsch, 1889	<i>THOLYMIS</i> Hagen, 1867
<i>abbreviata</i> (Rambur, 1842) ssp.	<i>citrina</i> (Hagen, 1867)
<i>amphinome</i> Ris, 1919	<i>TRAMEA</i> Hagen, 1881
<i>pachystigma</i> Karsch, 1889	<i>basilaris burmeisteri</i> Kirby, 1889
<i>rhea</i> Ris, 1911	<i>binotata</i> (Rambur, 1842)
<i>risi</i> Geijskes, 1984	<i>calverti</i> Muttkowski, 1910
<i>sylvia</i> (Kirby, 1889)	<i>cophysa</i> Hagen, 1867
<i>walkeri</i> Geijskes, 1931	<i>minuta</i> De Marmels & Racenis, 1962
<i>ORTHEMIS</i> Hagen, 1861	<i>rustica</i> De Marmels & Racenis, 1962
<i>aequilibris</i> Calvert, 1909	<i>URACIS</i> Rambur, 1842
<i>attenuata</i> (Erichson, 1848)	<i>fastigiata</i> (Burmeister, 1839)
<i>bolleyi</i> Calvert, 1906	<i>imbuta</i> (Burmeister, 1839)
<i>concolor</i> Ris, 1919	<i>infumata</i> (Rambur, 1842)
<i>cultriformis</i> Calvert, 1899	<i>ovipositrix</i> Calvert, 1909
* <i>ferruginea</i> (Fabricius, 1775)	<i>siemensi</i> Kirby, 1897
<i>flavopicta</i> Kirby, 1889	<i>ZENITHOPTERA</i> Selys, 1869
<i>regalis</i> Ris, 1910	<i>fasciata</i> (Linnaeus, 1758)
<i>sibylla</i> Ris, 1919	<i>viola</i> Ris, 1910
<i>PANTALA</i> Hagen, 1861	

NOTES AND COMMENTS

LESTES FALCIFER Sjöstedt. – As kindly brought under my attention by Dr J. D e M a r m e l s (pers. comm., 12 March 1998) and Dr R.W. G a r r i s o n (pers. comm., 4 Dec. 1998), my *L. edentatus* BELLE, 1997 is conspecific with this Brazilian species. Save for minor differences in coloration, the Surinamese males perfectly agree with SJÖSTEDT's (1918) description and figure. The female allotype is described in my 1997 paper.

LESTES SUBLATUS Hagen in Selys, 1862. – In the same letter (see above) Dr Garrison informed me that upon the examination of the holotype, Dr J. M u z ó n expressed

the opinion, *L. sublatus* appears a junior synonym of *L. alacer* Hagen from Central America.

NEONEURA BILINEARIS Selys. – As apparent from a letter by Miss C. Longfield to Dr M.A. Lieftinck (1947), J. Cowley was of the opinion that specimens from Pará, i.e. the type specimens, taken by Bates, are not identic with those described from British Guyana by WILLIAMSON (1917). Dr D.C. Geijskes has examined the Selysian material in the Brussels Museum and has agreed with Cowley's suggestion. It is likely, therefore, the Surinamese "bilinearis" may be referable to an undescribed species

ARGIA, unidentified species. – I have sent the specimens to the late Mrs L.K. Glyd. She responded on 2 Feb. 1976: "I found no new species in your *Argia* collection that were not represented in other material studied to date. However, I was pleased to see the additional specimens, especially your number 17. Three of the species retained for further study are definitely new ones ..."

TRIACANTHAGYNA DENTATA (Geijskes, 1947). – Near Zanderij airport I have collected 2 males which deviate from the typical *dentata* in having significantly more robust superior caudal appendages. They could represent an infraspecific form.

APHYLLA SIMULATA Belle. – It is very similar to *A. dentata* Selys, but its male caudal appendages are sometimes much more robust, and the metepimeron coloration varies greatly. It could be an infraspecific form of *A. dentata*.

IDIOGOMPHOIDES ICTINIA (Selys). – It is known from a single exuviae. The identification is based on supposition. See also BELLE (1992).

ARGYROTHEMIS ARGENTEA Ris. – The specimens from Surinam have a broad dark band in the wings of both sexes.

ERYTHEMIS, unidentified species. – A single female from Washabo is possibly referable to an undescribed species.

ERYTHRODIPLAX UMBRATA (Linnaeus). – A broad dark band occurs between nodus and stigma in males, but very rarely in females.

LIBELLULA HERCULEA Linnaeus. – It is often placed in the subgenus *Belonia*.

ORTHEMIS FERRUGINEA (Fabricius). – I distinguish the inland and the coastal form. They differ in the red body coloration.

SPECIES DELETED FROM THE CHECKLIST

HETAERINA CRUENTATA (Rambur, 1842). – Has a range from Brazil and Colombia (GARRISON, 1990) to Mexico, but it has never been seen in Surinam. GARRISON (1990) suspected the three Surinamese males listed by SELYS (1859) were mislabelled.

ARGIA EXTRANEA (Hagen, 1861). – Not recorded from Surinam after SELYS (1865). For its range see TSUDA (2000).

PHYLLOCYCLASIGNATA (Hagen in Selys, 1854). – NEEDHAM's (1944) record is based on a misidentification of *P. modesta* Belle, 1970.

PHYLLOGOMPHOIDESAUDAX (Hagen *in Selys*, 1854). – Actually known only from the holotype (Brazil; cf. BELLE, 1984) but, due to an error in SELYS & HAGEN (1858), it was mentioned erroneously for Surinam by BELLE (1970).

DYTHEMIS STERILIS Hagen, 1871. – Ranging from Argentina to Mexico (cf. TSUDA, 2000), it has not been seen in Surinam since HAGEN's (1875) listing.

DYTHEMIS VELOX Hagen, 1861. – Recorded from Surinam by CALVERT (1906), but not encountered ever since. For its range, see TSUDA (2000).

ERYTHRODIPLAX ATTENUATA (Kirby, 1889). – Listed by HAGEN (1875), but not confirmed.

ERYTHRODIPLAX OCHRACEA (Burmeister, 1842). – Listed by HAGEN (1875), but not confirmed.

ERYTHRODIPLAX AEQUATORIALIS Ris, 1911. – Described from Surinam as a subspecies in *ochracea*, it is a subjective synonym of *E. famula* (Erichson), as pointed out by BRIDGES (1993; cf. also BORROR, 1942).

PERITHEMIS WALTHERI Ris, 1910. – The 3 Surinamese males, referred to in the original description, are said to be “sehr wahrscheinlich falsch etikettiert und ... von Espírito Santo stammend” (RIS, 1910). In his subsequent generic revision, RIS (1930) questioned the status of the taxon. DUNKLE (1982) postulated the probability of a synonymy with *P. icteroptera* (Selys), which synonymy was confirmed by e.g. VON ELLENRIEDER & MUZÓN (1999).

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