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AN ANNOTATED LIST OF THE NAME-BEARING TYPES OF
SPECIES-GROUP NAMES IN ODONATA PRESERVED IN THE
UNIVERSITY OF MICHIGAN MUSEUM OF ZOOLOGY

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ABSTRACT.—This catalog presents a listing of all species-group names associated with Odonata specimens currently housed in the type collection in the University of Michigan Museum of Zoology (UMMZ), Ann Arbor, MI. The names represent species described by P.P. Calvert, L.K. Gloyd, F. Förster, M.A. Lieftinck, C.H. Kennedy, F. Ris, E.B. Williamson and others, and transcription of data labels, reference and current status have been included. A lectotype is designated for *Argia cyathigera* Navás in order to stabilize that name. The following are new synonyms: *Mecistogaster garleppi* Förster, 1903 = *Mecistogaster buckleyi* McLachlan, 1881; *Argia augustana* Navás, 1934 = *Argia medullaris* Hagen in Selys, 1865; *Argia dagnina* Navás, 1914 = *Argia indicatrix* Calvert, 1902; *Argia machadina* Navás, 1914 = *Argia difficilis* Selys, 1865; *Argia medinensis* Navás, 1935 = *Argia gerhardi* Calvert, 1909. Of 389 names, 85 are considered junior synonyms.

Key words: type specimen, catalog, Insecta, Odonata, University of Michigan, Museum of Zoology.

INTRODUCTION

This catalog presents a listing of all species-group names associated with specimens currently housed in the type collection in the University of Michigan Museum of Zoology (UMMZ). Of 389 names considered herein, 85 pertain to junior synonyms. The Odonata collection is a rich one, containing the collections of L.K. Gloyd, F. Förster, C.H. Kennedy, E.B. Williamson, and many specimens received over the years, and will therefore be of considerable importance to future students of the order. We believe a catalog is needed, not only to underscore the importance of this collection, but to make the material better known and more available to future workers.

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In 1958, E.J. Kormondy and L.K. Gloyd prepared a draft of the type catalog and the manuscript has been useful to us as it has enabled us to solve several vexing problems. All type material up to that time had affixed to each specimen a colored card with the type (holo-, lecto-, syn-, allotype) designations by E. Kormondy each with the note: "see Catalog Types-UMMZ/Odonata, Kormondy, 1958." Because the catalog was never published, we do not consider their type designations valid. Pinhey (1962:73), however, did list Kormondy & Gloyd as authorities for lectotype designations for several African taxa and we credit them here.

Type descriptions by Williamson, Kennedy and others have posed no serious problems but unfortunately the same cannot be said for the Förster types. The University of Michigan purchased his collection in 1926-1927 but much of it had been destroyed by dermestids and discarded before its acquisition into the collection. E.B. Williamson, aided at successive intervals by J.H. Williamson, C.H. Kennedy, F.M. Gaige, L.K. Gloyd and E.J. Kormondy, isolated type specimens. Considerable detective work had to be done not only to identify types but to decipher Förster's handwriting on the labels and to interpret abbreviated locality data and notation. Thus, the word "type" was used not only on type (=syntype) specimens but "typ" might be equivalent to his "typisch" meaning typical or perhaps meaning only that Förster had compared the specimen with the type. Other difficult problems with the collection are aptly stated by Lieftinck (1937a):

"As is well known, many of Förster's descriptions are so defective that identification of the species has always been difficult, and in many cases, impossible. Förster re-used many of his envelopes [sic] and was exceedingly careless about scratching out the old labels. To indicate localities he frequently wrote down a few letters, often indecipherable, on the paper covers of his specimens, and in many cases he made severe errors in labeling the material."

The type collection also contains several syntypes from the Hagen collection in the Museum of Comparative Zoology, Cambridge. According to the Kormondy and Gloyd manuscript catalog, Nathan Banks and L.K. Gloyd in 1935 arranged for the deposition in the UMMZ of syntypes of 22 species described by Hagen and Morse. Except for most of the species of *Enallagma* and *Argia* where lectotypes were designated by Garrison (1984, 1994a), those species are listed here with the advice that lectotypes be designated from material

housed in the Museum of Comparative Zoology, Cambridge(MCZ).

The structure of this catalog follows that of Kimmins (1966) for the Fraser types but we have *not* designated any lectotypes. The only exception is in the case of *Argia cyathigera* Navás, where RWG has designated a lectotype in order to stabilize that name. In those papers in which authors did not specifically designate types, we have given benefit of the doubt to the author when the word "type" was used in the original description. If only one specimen was available in the description and no type was selected, we have considered that example the holotype. We have listed as syntypes the specimens for which a lectotype has not yet to our knowledge been selected. Often, the specimens are part of a larger series with other syntypes housed in other institutions. For these cases, we have left the lectotype designations for specialists in those groups.

Determination of type material from two authors deserves comment. Calvert (1906), in the *Biologia Centrali Americana*, labeled as the type the specimen which was principally figured or specifically designated. Leonard's thesis on *Acanthagrion* was published posthumously in 1977. In that paper, species described in 1934-35 had not been changed to account for synonymies. Leonora K. Gloyd, who oversaw the publication of the paper, tried to bring synonymies up-to-date in her Appendix (Gloyd *in* Leonard 1977:146), but unfortunately she failed to find or determine what specimens represented types, so no type material was present in the collection when we commenced this project. RWG was able to discover some specimens of new species specifically designated by Leonard in the 1930's. For others, he was unable to find types. We have noted the absence of such material by placing entries in brackets ([]).

Names are listed alphabetically under each family followed in parentheses by their original generic combination. Name-bearing types (holo- or lectotype) are in *italic boldface*; allo-, para-, or paralectotypes are not included. Types of various forms are excluded since these have no standing in zoological nomenclature. Orthography of labels is given in full (when decipherable) and each line is separated by a "/", followed by the author in brackets ([]). We have endeavored to give exact spellings on labels even if these are at times inconsistent or incorrect (*e.g.* Foerster vs. Förster, misspelling of localities). Annotations for each specimen, if any, follow, and finally the present status of the taxon where it differs from the original description. Sequence of families follows for the most part Davies & Tobin (1984, 1985), except that species are listed alphabetically under each family.

LIST OF TYPES

Amphipterygidae

reinholdi Förster (*Diphlebia*), 1910:55. Lectotype σ designated by Stewart 1980:26. Hinterland von/Port Moresby/E. Weiske/Britisch Neuguinea and *Diphlebia/Reinholdi* n. sp./ σ Type [labels F. Förster].

We consider the statement by Stewart (1980:26) "Papua New Guinea: 1 σ , Port Moresby; 1910, E. Weiske, UMMZ (*D. reinholdi* lectotype)" as equivalent to designation of a lectotype. We know of no other records of this genus from New Guinea and suspect that Förster's locality for *reinholdi* is in error. Currently a synonym of *Diphlebia euphoeoides* Tillyard 1907.

stahli Förster (*Pentaplebia*), 1909:213. Lectotype σ designated by Kormondy & Gloyd in Pinhey 1962:153. *Pentaplebia* σ /stahli Foerst. Typ [label F. Förster].

Calopterygidae

curvicauda Garrison (*Hetaerina*), 1990:207, Fig. 12, Holotype σ . Brazil/State of Mato Grosso [crossed out with "Rondonia" above] Abuná/J.H.W. & J.W.W./MAR. 18 1922.

cyaneipennis Förster (*Matrona (Matronoides)*), 1897b:101. 2 $\sigma\sigma$ syntypes. Kina Balu,/Nord Borneo/Staudinger vdt/1897 and *Mantronoides* σ /cyaneipennis Förster/Type [labels F. Förster].

The original description was apparently based on an unspecified number of males despite the fact that Förster states "Type in meiner Sammlung,..." There is another male similarly labeled with "type σ " in Förster's hand. Kormondy and Gloyd labeled one male as holotype and the other as a topotype. Until there is evidence to the contrary, we believe it wiser to label both specimens as syntypes. Currently known as *Neurobasis cyaneipennis* (Förster, 1897).

declivium Förster (*Umma*), 1906c:51. Lectotype σ designated by Kormondy & Gloyd in Pinhey (1962:144). Nguelo/Usambara σ /(Hinterlandschaft/Deutsch Ostafrika/Rolle vdt 1905 and *Umma* σ /declivium Foerst [labels F. Förster].

dorothea Williamson (*Psolodesmus*), 1904b:249. 1 σ , 1 ϕ syntypes. *Psolodesmus/dorothea/Formosa*/Type [label E.B. Williamson].

No type was specified in the original description based on "3 males and 2 females in my collection." A male and female of the type series both have handwritten labels by Williamson with the word "type." These were probably written at a later date. Currently known as

Psolodesmus mandarinus dorothea Williamson, 1904.

earnshawi Williamson (*Mnais*), 1904a:185. 9 ♂♂, 3 ♀♀ syntypes. One pinned ♂: *Mnais/earnshawi*. Burma/Type. [label E.B. Williamson]. Eight other male and two female syntypes in original envelopes with following data: *Mnais earnshawi* (♂ or ♀)/Burma R.A. Earnshaw [all in pencil].

No type was specified in the original description consisting of 22 males and 2 females, and the handwritten type label was probably added after the original description. Currently considered a synonym (male color form) of *Mnais andersoni* McLachlan, 1873.

flavipennis Garrison (*Hetaerina*), 1990:211. Figs 15, 69, 75. Holotype ♂. ECUADOR: Prov. Santiago-Zamora/Zumba, Rio Zamora/October 31, 1941 700 M/David B. Laddey/C.H. KENNEDY COLLECTION.

japonica Förster (race of *Neurobasis (Matrona) basilaris*), 1897c:208 (5 reprint). Syntype ♂. Staudinger vdt/1897 ♂/Yokohama/Japan and *Matrona/basilaris* de Selys/var. *japonica*/Förster ♂ ad. [labels F. Förster].

The type was not designated in the original description based on at least 1 ♂ and 1 ♀. We have been unable to locate the syntype ♀. Currently known as *Matrona basilaris japonica* (Förster, 1897).

occidentalis Förster (ssp. of *Sapho (Phaon) iridipennis*), 1906b:330. Lectotype ♂ designated by Kormondy & Gloyd in Pinhey (1962:143). August 1900/Bipindi/Camerun ♂/Zool. Bot. Station Rolle vdt 1903; *Phaon iridipennis*/Burm ♂/rasse *occidentalis*/Förster [labels F. Förster].

Currently considered a synonym of *Phaon iridipennis* (Burmeister, 1839).

saphirina Förster (*Umma*), 1916:23. Lectotype ♂ designated by Pinhey (1962:145). Entebbe, Uganda,/Centr. Afr./W. Rolle, Berlin, S.W. 11 [printed] and *Umma saphirina* Foerster/Type ♂ [labels F. Förster].

The type was not designated in the original description, based on unspecified number of males and females from "Entebbe, Victoria, Nyanza, Nairobi." According to Pinhey (1962:145), "cot[ype]. ♂ in Stockholm Mus..." which accordingly becomes a paralectotype.

Chlorocyphidae

adamantina Förster (*Rhinocypha*), 1903a:547. Holotype ♂. Sikkim/Himalaja 1897/♂ adult/Staudinger vdt, and *Rhinocypha*/(fenestrella Rasse:) ♂/adamantina Foerster/Type [labels F. Förster].

From Förster's description, it appears that he had only one male before him. Also Fraser (1934:12) states: "R. *adamantina* Först. is

obviously merely a variety of this species [*R. cuneata*]; the type, from Sikkim, is in the Michigan University Collection." Currently considered a synonym of *Aristocypha cuneata* (Selys, 1853).

auripes Förster (*Libellago*), 1906c:54. Lectotype σ designated by Kormondy & Gloyd in Pinhey (1962:151). Nguelo/Bergland/von Ost-/Usambara and *Libellago* σ /auripes Förster/Type [labels F. Förster].

The type was not designated in the original description, based on 2 males. The collection contains the other male (paralectotype) also labeled "Type" with same data. Currently known as *Platycypha auripes* (Förster, 1906).

aurulenta Förster (*Rhinocypha*), 1903a:547. 2 $\sigma\sigma$, 1 f syntypes. Buru Insel/Südmolukken/Rolle vdt 1903 and (petiolata Brauer Rasse aur[ulenta]./Rhinocypha σ [or f] /aurulenta Foerster/Type [labels F. Förster].

The type was not designated in the original description, based on 2 males and 1 female. In the original description Förster indicated that one of the males is in the Hungarian National Museum. In the Förster collection of papered material, we discovered a teneral male which does not appear to be this species with the following labels in Förster's hand: Saverna/munbru[?]/Pagenstecher; *Rhinocypha* σ /aurulenta n sp./Type. Dr. M. Lieftinck, who examined the specimen, has written on the envelope: R[hinocypha] fenestrata?/locality erroneous! Lieftinck. We have placed this specimen in the type collection pending study by a specialist in this group.

dentiplaga Lieftinck (ssp. of *Rhinocypha tincta*), 1938:69. Holotype σ . Taimi Insel/Hänishafen σ /Huongolf/Carl Wahnes/3.1900; *Rhinocypha/tincta typica/Selys* [labels F. Förster]; small printed red label TYPE; and *R. tincta dentiplaga/Lieft./det. M.A. Lieftinck 1938/HOLOTYP*E [partially printed label M. Lieftinck].

The right wings of the holotype, which served as Fig. 3B in Lieftinck 1938, have been removed and are missing.

hartmanni Förster (ssp. *Libellago caligata*), 1897d:216. Lectotype σ designated by Kormondy & Gloyd in Pinhey (1962:152). Waterval/Onder 1-11-96/K. Hartmann σ /leg. Transval [*sic!*], and *Libellago/hartmanni Förster/type* σ adult [label F. Förster].

Currently considered a synonym of *Platycypha caligata* (Selys, 1853).

pagenstecheri Förster (*Rhinocypha*), 1897e:333. 2 $\sigma\sigma$, 1 f syntypes. Insel Lombok/Fruhstorfer 1896 and *Rhinocypha* σ adult/pagenstecheri Foerster/Type [labels F. Förster].

The type was not designated in the original description, based on 2 males (1 adult, 1 juvenile) and 2 females. Two other specimens, a σ , labeled as juv. and a φ labeled as adult are in this collection and are labeled "Type" in Förster's hand. These are probably not syntypes but we include them here pending further study by a specialist on the group. Currently known as *Rhinocypha pagenstecheri* Förster.

semitincta Selys (*Rhinocypha*), 1869:664 (in reprint 20). 1 σ , 1 φ ; the φ a possible syntype. σ : Waigiou [purple label Selys]; semitinctus/ σ /Waigou [white label Selys]; Type von/De Selys [label F. Förster]; φ : Moluques/Lorquin [purple label by Selys]; semitinctus/ φ Waigou [white label Selys]; Type von/De Selys [label F. Förster].

Lieftinck (1938:64) states: "According to Mrs. GLOYD, there is a one pair of apparently this species [*Rhinocypha tincta tincta* Rambur] in the University Museum of Michigan, Ann Arbor, borrowed by F. FÖRSTER from the Selys' collection in the Brussels Museum. The male is from 'Waigeou' and bears an identification-label in SELYS' hand: "semitinctus σ Waigeou;" the female has a pink-colored label: "Moluques, Lorquin," and a white label: "semitincta φ Waigeou." These two specimens bear white labels in FÖRSTER's hand "Type von Selys," - an erroneous statement!" Jan van Tol (pers. comm. 5 Aug. 2002) kindly informed us that the female specimen from Moluques (Lorquin = collector) is a possible syntype, but [is] not conspecific with...specimens from Gilolo [The type locality for *Rhinocypha semitincta* is "Gilolo" (Musée de Leyde). Iles Moluques (par M. Lorquin). (Coll. De Selys.)]. The Waigeo specimen [is not a] type of *semitincta* (not mentioned by Selys). Lieftinck (1971b:111) states that the "original specimens from 'Gilolo' (Halmahera I., N. Moluccas) in the Leiden Museum are no more in existence" and "Specimens of either sex, labeled by Selys himself and originating from Elbor, Gilolo and Batjan (N. Moluccas), are in de Selys' collection (IRSN [Institut Royale des Sciences Naturelles de Belgique, Brussels]), so that any selection of a lectotype should, I think, be made from one of these." Since no lectotype has yet been designated for this taxon, we have retained the specimens in the type collection pending study by a specialist on the group.

Currently known as *Rhinocypha tincta semitincta* Selys.

sumbana Förster (ssp. of *Rhinocypha pagenstecheri*), 1897e:335. Holotype φ . Patadalu φ /Sumba-Insel/8.11.1895/Schneider vdt. and *Rhinocypha* φ adult/pagenstecheri Foerster/subrasse sumbana Foerst/Type [labels F. Förster].

Currently known as *Rhinocypha sumbana* Förster.

stygia Förster (*Rhinocypha*), 1897c:210. Syntype ♀. Kini Balu/Nordborneo and *Rhinocypha* ♀/*stygia* Foerster/type [labels F. Förster].

This species was described from 1 ♂ and 1 ♀ "dans ma collection." The male syntype cannot be found in this collection.

Dicteriadidae

cothurnata Förster (*Neocharis*), 1906d:70. 2 ♂♂ syntypes. Surinam/Dr. O. Staudinger/ & A. Bang Hass vdt, and *Neocharis* ♂/*cothurnata* Förster/Type [labels F. Förster].

Currently considered a synonym of *Heliocharis amazona* Selys, 1853.

Polythoridae

bogotensis Förster (ssp. of *Cora terminalis*), 1914:60. Holotype ♂. St. Margarita/West Cordillere/von Columbia/VII. 1909/A/H/Fassl, and *Cora terminalis*/*bogotensis* Förster/Type [labels in red ink F. Förster].

In the original description, the name was incorrectly spelled "bogotenois" which was most likely a printer's error for "bogotensis." All succeeding authors have used *bogotensis* without comment for this taxon. We use the altered spelling here in accordance with Article 32.5.1 of the ICZN (1999). Currently considered a synonym of *Cora modesta* Selys, 1869.

confusa Kennedy (*Cora*), 1940a:430. Holotype ♂. Ecuador: Prov. del Oriente/Abitagua, upper R. Pastaza/December 29, 1939 1100 ♂/W. Clarke MacIntyre; *Cora*/*confusa* Kennedy/Holotype ♂ [labels C.H. Kennedy].

dorada Bick & Bick (*Cora*), 1991:454. Holotype ♂. Ecuador, Tungurahua Province/Yungilla, 1900 ♂/September 19, 1936/W.C. Mac-Intyre. CORA DORADA Bick & Bick M Ecuador/Det. G.H. Bick, 1991.

lamerceda Bick & Bick (*Polythore*), 1985:15, Figs 3, 14, 15, 18. Holotype ♂. Peru: Junin Dept./La Merced, Hacienda. La Salud, 1067 ♂/13 June 1931/collected by J.D. Rivas.

montana Förster (*Thore*), 1914:60. Holotype ♀. Pozuzu/*montana* der/Ostcordillere/von Peru, and *Thore*/*montana*/aus pozuzina ♀/Type [labels F. Förster].

Currently considered a synonym of *Polythore ornata* (Selys, 1879).

parda Bick & Bick (*Cora*), 1991:456, Fig. 1. Holotype ♂. Peru, Puno Department/Santo Domingo, 6000 ft./13.49s, 69.38 W/"coll.

Rosenberg, Acq. 1903." CORA PARDA Bick & Bick, 1991 Peru/Det. G.H. Bick, 1991.

pellucida Kennedy (*Miocora*), 1940a:418. Holotype ♂. PERU: Campamiento/Colonia del Perene/June 21, 1920/J.H. Williamson, and MIOCORA PELLUCIDA/Kennedy 1940/Type ♂ [labels C.H. Kennedy].

percornuta Kennedy (*Stenocora*), 1940a:412, Figs 2, 5, 8-9. Holotype ♂. Ecuador: /Rio Jatun Yacu/Jan, 1935/W. Clarke MacIntyre [label C.H. Kennedy?].

As stated by Kennedy (1940a:411-412), the holotype is in poor condition. Abdominal segments 7-10 are broken and cemented to a point beneath the specimen.

pozuzina Förster (*Thore*), 1914:59. Lectotype ♂ selected by Montgomery (1967:152). Pozuzu/Pozuzo/Peru/Roll[e]/1904, and Thore/pozuzina/♂ Type. Foerster [labels F. Förster].

Originally described from four males, only the holotype and one paralectotype are in the UMMZ. Currently considered a synonym of *Polythore ornata* (Selys, 1879).

subapicalis Kennedy (*Miocora*), 1940a:422. Holotype ♂. COLOMBIA: Cristalina/Feb. 12, 1917/J.H. & E.B. Williamson and *Miocora*/subapicalis/Kennedy 1940/Type ♂ [labels C.H. Kennedy].

Currently considered a synonym of *Miocora peraltica* Calvert, 1917.

williamsoni Förster (*Thore*), 1903c:356. Lectotype ♂ designated by Bick & Bick (1986:264). No original labels extant, only a typed label with: Cordillera von Peru, Vilcanota/Jan. 9, 1899/O/Garlepp.

No type was designated in the original description, based on an unspecified number of specimens of each sex. Bick and Bick (1986) in their revision of the genus, examined 8 males, 2 females and chose one male (with a female of this series) as lectotype, since Förster specifically mentioned a copulating pair. A typed note by G.H. Bick, 1986, states "This is almost certainly this male and female." There is a supplementary male and female of this species in the type collection (designated by Kormondy and Gloyd) which the Bicks did not examine. The male has two handwritten labels, in Förster's hand: "Leg. O. Garlepp/Vilcanota 1902/(Peru) ♂ in cop/coll. Dr. O. Staudinger" and "Thore/williamsoni Foerster/Type/(boliviana/Rasse Williamsoni)/♂ in copula." The female is similarly labeled. These two specimens were the ones specifically mentioned by Förster (1903c:356) but, unfortunately, not seen by the Bicks. RWG wrote to G.H. Bick addressing this problem and they prefer to let the original lectotype designation stand. Thus, these two specimens

labeled by Förster become paralectotypes.

Lestidae

australis Walker (ssp. of *Lestes disjunctus*), 1952:64. Holotype ♂. Bluffton Ind./Vaneman Swamp/Wells Co. VI-6-1920/E.B. Williamson [label E.M. Walker], printed red label with TYPE, and typed label: LESTES disjunctus/Selys/australis Walker/Type 1951.

gobica Förster (ssp. of *Sympecma annulata*), 1900b:258. 2 syntypes ♂♂, 1 syntype ♀. ♂: Chami/2 .V 1898, and Sympycna/annulata Selys ♂/Rasse gobica ♂[ihi].; ♂ and ♀: Expedition ♂ [or ♀]/Holderer/Chami/2. V 1898 [labels F. Förster].

No type was designated in the original description, based on an unspecified number of specimens of each sex. Currently considered a subspecies of *Sympecma annulata* Selys, 1887.

hamata Hagen (*Lestes*), 1861:70. Syntype ♂. Chicago/Sacken [label H. Hagen]; hamata [label unknown hand]; Hagen [label printed]; Type/3/8858 [red labels with hand written numbers by N. Banks].

No type was designated in the original description, based on an unspecified number of specimens. Currently considered a synonym of *Lestes forcipatus* Rambur, 1842.

regalis Gloyd (*Archilestes*), 1944b1. Holotype ♂. MEXICO: San Luis Potosi/Huichihuayan (Sam Brown/Hacienda), Sept. 25, 1938/L.J. Lipovsky and Archilestes/regalis Gloyd/Type ♂ [labels C.H. Kennedy?].

tikalus Kormondy (*Lestes*), 1959:307. Holotype ♂. GUATEMALA: Dept. Peten/Tikal, [printed] March 7 [written], 1956/I.J. Cantrall [printed] -101 [written]; *Lestes tikalus*, n. sp./Kormondy '58 [label E.J. Kormondy].

tuberalatus Williamson (*Cyptolestes*), 1921:6, Fig. 10, 11. Holotype ♂. VENEZUELA 1920 [printed]/San Esteban, Carabobo/February 6 [written by LKG]/J [printed]. H. [written] & E.B. Williamson [printed]/W.H. Ditzler [written], and *Cyptolestes tuberalatus*/Williamson/TYPE-orig. Fig. 10, 11, Pl. II/Occ. Pap. Mus. Zool. Univ. Mich. No. 96 [written]/Det. by E.B. Williamson [printed]/1921 [written] [labels L.K. Gloyd].

An accessory label in the box written in pencil by Williamson states: *Cyptolestes tuberalatus*/Type ♂ and Type is also written vertically on the right hand margin. Currently known as *Archilestes tuberalatus* (Williamson, 1921).

unguiculata Hagen (*Lestes*), 1861:70. ♂, ♀ syntypes. ♂: Chicago/

Sacken [label H. Hagen]; Hagen [label printed]; Type/10/12129 [red labels with hand written numbers by N. Banks]. ♀: New Jersey/Guex [label H. Hagen]; Hagen [label printed]; Type/9/12129 [red labels with hand written numbers by N. Banks].

No type was designated in the original description, based on an unspecified number of specimens. Currently known as *Lestes unguiculatus* Hagen, 1861.

urubamba Kennedy (*Lestes*), 1942b:282, Figs 8-14. Holotype ♂. Peru: Satipo/Rio Satipo/Dec. 19, 1940/P. Paprzycki, and *Lestes* /urubamba Kennedy/Type ♂ [labels C.H. Kennedy].

Perilestidae

aculeatus Kennedy (*Perissolestes*), 1941c:684. Holotype ♂. BRAZIL: Amazonas/Porto Velho; May 24, 1922; J.H. Williamson/& J.W. Strohm and *Perissolestes/aculeatus* Kennedy/Holotype ♂ [labels C.H. Kennedy].

castor Kennedy (*Perilestes*), 1937a:411. Holotype ♂. Ecuador: Prov. Oriente/Partidero, ♀ 4, Rio Anzu/Nov. 11, 1935-800 ♂./W. Clarke MacIntyre and *Perilestes/castor* Kennedy/Type ♂. [labels C.H. Kennedy].

Currently known as *Perissolestes castor* (Kennedy, 1937).

kahli Williamson & Williamson (*Perilestes*), 1924a:24, Pl. I, Fig. 6. Holotype ♂. Villa Murtinho, Mallo [*sic!*] Grosso, Brazil/April 1, 1922/J.H. Williamson/and J.W. Strohm [a number #95 appears diagonally on right side of label] and *Perilestes kahli*/E.B. & J.W. Williamson/TYPE-orig. Fig. 6, Pl. I/Misc. Publ. Mus. Zool. Univ. Mich. No. 14 [handwritten] Det. by E.B. Williamson [printed]/1924 [labels L.K. Gloyd].

An accessory label in the box written in pencil by E.B. Williamson states: *Perilestes/kahlia* and Type vertically on right hand margin.

magdalenae Williamson & Williamson (*Perilestes*), 1924a:17, Pl. I, Fig. 4. Holotype ♂. Cristalina, Columbia/February 18, 1917/J.H. & E.B. Williamson and *Perilestes magdalenae*/E.B. & J.H. Williamson/TYPE-orig. Fig. 4, Pl. I/Misc. Publ. Mus. Zool. U. of Mich. No. 14 [written] Det. by E.B. Williamson [printed]/1924 [labels L.K. Gloyd].

An accessory label in the box written in pencil by E.B. Williamson states: *Perilestes/magdalenae* and Type vertically on right hand margin. Currently known as *Perissolestes magdalenae* (Williamson & Williamson, 1924).

minor Williamson & Williamson (*Perilestes*), 1924a:34. Pl. I, Fig. 9.

Holotype σ . Porto Velho, / Amazonas, Brazil / May 19, 1922. / J.H. Williamson and J.W. Strohm [a number "ø138" appears on left side of label], and *Perilestes minor*. / E.B. & J.H. Williamson / TYPE-Orig. Fig. 9, Pl. I / Misc. Publ. Mus. of Zool. U. of Mich. No. 14 [written] Det. by E.B. Williamson [printed] / 1924 [labels L.K. Gloyd].

An accessory label in the box written in pencil by E.B. Williamson states: *Perilestes/minor/5/19/22/ø138*. and Type vertically on right hand margin.

paprzyckii Kennedy (*Perissolestes*), 1941c:852. Holotype σ . Peru: Satipo / Rio Satipo Valley / P. Paprzycki [a date "6/19/40" appears diagonally on right side of label], and *Perissolestes / paprzyckii* Kennedy / Type σ [labels C.H. Kennedy].

pollux Kennedy (*Perilestes*), 1937a:418. Holotype σ . ECUADOR: Rio Napo / Jatun-Yacu, 700 σ / March 1937 / Wm. Clarke-MacIntyre, and *Perilestes / pollux* Kennedy / Type σ [labels C.H. Kennedy].

Currently known as *Perissolestes pollux* (Kennedy, 1937).

remotus Williamson & Williamson (*Perilestes*), 1924a:14, Pl. I, Fig. 3. Holotype σ . Cristalina, Columbia / February 12, 1917 / J.H. & E.B. Williamson; and *Perilestes remotus* / E.B. & J.H. Williamson / TYPE-Orig. Fig. 3, Pl. I / Misc. Publ. Mus. Zool. U. of Mich. No. 14 [handwritten] / Det. by E.B. Williamson [printed] / 1924 [labels L.K. Gloyd].

An accessory label in the box written in pencil by E.B. Williamson states: *Perilestes/remotus* and Type vertically on right hand margin. Currently known as *Perissolestes remotus* (Williamson & Williamson, 1924).

remus Kennedy (*Perissolestes*), 1941c:682, Figs 24, 27, 36, 45, 46. Holotype σ . Ecuador: Pichincha / La Lorena / Sta. Domingo / Feb. 28, 1941 550 σ / D.B. Laddey, and *Perissolestes / remus* Kennedy / Type σ [labels C.H. Kennedy].

solutus Williamson & Williamson (*Perilestes*), 1924a:30. Pl. I, Fig. 8. Holotype σ . Villa Murтинho, / Matto [sic] Grosso; Brazil / April 4, 1922 / J.H. Williamson and / J.W. Strohm [a number "ø102" appears on left side of label], and *Perilestes solutus* / E.B. & J.H. Williamson / TYPE-orig. Fig. 8, Pl. I. / Misc. Publ. Mus. Zool. U. of Mich., No. 14 [written] / Det. by E.B. Williamson [printed] / 1924 [labels L.K. Gloyd].

An accessory label in the box written in pencil by E.B. Williamson states: *Perilestes/solutus/Villa/Murтинho/4/4/22* and over and Type appear vertically on the right hand margin. The reverse side has the following in E.B. Williamson's hand: Full data / on env. in /

(cigar box).

Megapodagrionidae

alienum Williamson (*Heteragrion*), 1919:33, Figs 37, 88, 89, 152. Holotype ♂. Puerto Barrios/Guatemala/June 23, 1909./E.B. Williamson. A handwritten label [by L.K. Gloyd] reads as follows: *Heteragrion alienum* Williamson/ TYPE-Orig. Fig. 37, Pl. V; Fig. 88,/89, Pl.V III; Fig. 152, Pl. XII. Occ. Pap./Mus. Zool. U. of Mich. No. 68. 1919/Det. by E.B. Williamson [printed].

An accessory label in the box written in pencil by Williamson states: *Heter alienum*/Puerto Barrios/Guatemala/June 3, 1909 and Type appears vertically on the right hand margin.

amabilis Förster (*Argiolestes*), 1899a:71. Holotype ♀. New South/Wales 1898/Staudinger vdt., and *Argiolestes* ♀ type/*amabilis* Foerster [labels F. Förster].

Currently known as *Austroargiolestes amabilis* (Förster, 1899).

angulatum De Marmels (*Teinopodagrion*), 2001:41. Holotype ♂. Yanamanaca/ 1+[Rio Napo watershed, Napo/Pastaza, Ecuador]/6 X 35/[label. W.C. MacIntyre]; *Teinopodagrion_ angulatum*/DEM[armels] det '96 [inked in De Marmels' hand]; TEINOPODAGRION/ANGULATUM/De Marmels 1997/ HOLOTYPUS [red label in De Marmels' hand].

bilobata Kennedy (*Archaeopodagrion*), 1946a:171, Figs 1-14. Holotype ♂. Ecuador, Santiago-Zamora/Macas; Rio Upano/Sr. Leop. Gómez Alonso and *Archaeopodagrion/bilobata* Kennedy/Type ♂ [labels C.H. Kennedy].

The pinned holotype is in poor condition, the head and abdominal segments 5-9 are broken and are in an envelope next to the pinned specimen. Part of the abdominal segment 10 with the left cercus and paraproct are pointed below the holotype. The specific epithet should be changed to *bilobatum* to agree in gender with the generic name (ICZN 1999, Art. 30.1).

bicorne Kennedy (*Archaeopodagrion*), 1939a:33. Holotype ♂. Ecuador: Oriente/Napo, Rio Napo/Dec. 4, 1935/W. Clarke-MacIntyre and *Archaeopodagrion/bicorne* Kennedy/Type ♂ [labels C.H. Kennedy].

boliviana Bick & Bick (*Philogenia*), 1988:16, Figs 2-4. Holotype ♂. PHILOGENIA BOLIVIANA Bick & Bick ♂ BOLIVIA/Det. G.H. Bick, 1987/BOLIVIA, La Paz Department/Yungas de la Paz/Date?/ Foerster Collection.

calendulum Williamson (*Heteragrion*), 1919:36, Figs 46, 94, 159. Holotype ♂. Columbia: Dept. Antioquia/along Quebrada Sabaleticus near Cristalina/Feb. 17, 1917/J.H. & E.B. Williamson; *Heteragrion calendulum* Williamson/TYPE-Orig. Fig. 46, Pl. V;/fig. 94, Pl. IX; Fig. 159, Pl. XII./Occ. Pap. Mus. Zool. U. of Mich. no. 68/Det. by E.B. Williamson 1919 [label L.K.Gloyd].

An accessory label in the box written in pencil by Williamson states: *Heteragrion/calendulum/Cristalina/Columbia/2/17/17* and Type appears vertically on the right hand margin.

chinchaysuyum De Marmels (*Teinopodagrion*), 2001:44. Holotype ♂. Collector: Felix Woytkowski, Lima-Peru,/Locality: vicinity of Pampa Hermosa/Date-6-11th Of May, 1935. 1600 m.a.s.level [stamped]; HOLOTYPUS [pasted pink label in De Marmels' hand]; *Teinopodagrion chinchaysuyum* sp. n./DEM[armels]' det '97 [inked in De Marmels' hand].

cyanofrons Williamson (*Oxystigma*), 1919:58, Figs 27, 103, 104, 171. Holotype ♂. Tumatumari,/British Guiana/February 5, 1912/L.A. and E.B. Williamson/and B.J. Rainey; *Oxystigma cyanofrons*/Williamson/TYPE-Orig. Fig. 27, Pl. IV; fig./103,104, Pl. IX; Fig. 171, Pl. XII/Occ. Pap. Mus. Zool. U. of Mich. no. 68, 1919/Det. by E.B. Williamson [labels L.K.Gloyd].

An accessory label in the box written in pencil by Williamson states: *Heterag cyanofrons/Tumatumari/Br. Guiana, Feb. 5, 1912*. Type [vertically] Coll. E.B. Williamson.

cristalina Calvert (*Philogenia*), 1924:35, Pl. 4, Figs 58-60. Holotype ♂. Cristalina Columbia/February 12, 1917/J.H. and E.B. Williamson [label L.K. Gloyd], and *Philogenia* ♂/Cristalina Calv./Type. Orig. Figs 58-60, Pl. IV. Trans. Am. Ent. Soc. L [written]/P.P. Calvert det. [printed] 1924 [label P.P. Calvert].

depressum De Marmels (*Teinopodagrion*), 2001:51. Holotype ♂. EQUADOR [*sic* for Ecuador]: Prov. Santiago - Zamora/Zumba, Rio Zamora/October 29, 1941 700 M/David B. Laddey/C.H. KENNEDY COLLECTION [printed]; *Teinopodagrion/depressum* /HOLOTYPUS/DE Marmels det '97 [pasted red label in De Marmels' hand]; *Teinopodagrion* ♂/*depressum*/DEM[armels] det '97 [pencilled in De Marmels' hand].

elisabeta Calvert (*Philogenia*), 1924:29, Pl. 2, Figs 39-43. Holotype ♂ (first label by L.K. Gloyd, second by P.P. Calvert). Colonia del Perene' / Campamiento, Peru/June 19, 1920/W.T.M. Forbes [L.K. Gloyd]. *Philogenia/elisabeta* Calv./TYPE Orig. Figs 39/-43, pl. II. Trans./Amer. Ent. Soc. I./P.P. Calvert det. 1924 [P.P. Calvert]. Two pieces of

paper from the original envelope pinned next to the specimen states: PERU/CAMPAMIENTO/COLONIA DEL PERENE/JUN 19 1920 [stamped]. Hand written: Phil. near margarita no. 1 36/Figs of pronotum & of apps. drawn and: W.T.M. Forbes/TYPE/Colors best preserved in this male/Philogenia/elisabeta/Calvert/Type.

fickei Förster (*Protolestes*), 1899b:188. 1 ♀ syntype. Montagne/de l'Ambre/Nord-Ma-/dagascar/Ficke vdt 1898, and *Protolestes/Fickei* Foerster/Type der Gattung/♀ & species [labels F. Förster].

A type was not designated in the original description, based on two females. The other syntype was recorded by Förster as being in the Adelhauser Museum Natur-und Völkerkunde in Freiburg.

ictericum Williamson (*Heteragrion*), 1919:17, Figs 14, 74, 75, 134. Holotype ♂. Wismar, Brit. Guiana/January 31, 1912/L.A. & E.B. Williamson and B.J. Rainey [L.K. Gloyd] *Heteragrion ictericum*/Williamson/TYPE-Orig. Fig. 14, Pl. IV; fig. 74,/75, Pl. VII; Fig. 134, Pl. XII. 1919. Occ. Pap. Mus. Zool. U.Mich. no. 68. Det. by E.B. Williamson [L.K. Gloyd] penis drawn [E.B. Williamson?].

An accessory label in the box written in pencil by Williamson states: *Het. ictericum*/Wismar/Br. Guiana/Jany. 31-1912/Type [vertically]/Coll. E.B. Williamson.

kirbyi Förster (*Wahnesia*), 1900a:105. 1 ♂ syntype. Gegalu/Sattelberg b[ei]/Simbang, /D. Neuguinea/W. Wahnes 1-5/1899 and *Wahnesia/kirbyi* Förster/ ♂ Type [labels F. Förster].

Lieftinck (1935:210) described this species using Förster's name, believing it was a *nomen nudum*. One of seven males in the Mus. Budapest was selected as the type (lectotype) and Davies and Tobin (1984:39) list Lieftinck as author of this species. Although no species description accompanies the establishment of *Wahnesia*, Förster differentiates *Wahnesia* in a key and provides distinguishing characters for reception of two new species, *W. kirbyi* and *W. montivagans*. Förster's action would seem to fulfill the needed requirement of a description at least by indication (Art. 16(a)(vi)), a decision also shared by Kennedy (1925:302) and Cowley (1934: 247). Even if Lieftinck is not the valid author of this species, his type designation of one of the syntypes in the Hungarian Museum may be interpreted as a lectotype designation for his use of the name. We have left the specimen in the UMMZ as a syntype pending further study by a specialist in the group. Currently known as *Argiolestes kirbyi* (Förster, 1900).

mangosisa Bick & Bick (*Philogenia*), 1988:24, Figs 11-13. Holotype ♂. PHOLOGENIA MANGOSISA Bick & Bick ♂ ECUADOR/Det. G. H.

Bick, 1987/ECUADOR, Province Morona-Santiago/Mangosisa, Rio Upano, 850 m/L. G. Alonzo.

melanurum Williamson (*Heteragrion*), 1919:20, Figs 16, 76, 77, 136. Holotype ♂. *melanurum*: Rockstone, Brit. Guiana/February 1, 1912/L.A. & E.B. Williams and B.J. Rainey. *Heteragrion melanurum*/Williamson/TYPE- Orig. Fig. 16, Plate IV; fig. 76, 77, Pl. VIII; Fig. 136, Pl. XII./Occ. Pap. Mus. Zool. U. of Mich. No. 63. Det. E.B. Williamson/1919 [labels L.K. Gloyd]. An accessory label in the box written in pencil by Williamson states: *Heterag/melanurum/Rockstone/Brit. Guiana/feb. 1-1912* TYPE [vertically] Coll. E.B. Williamson.

mitratum Williamson (*Heteragrion*), 1919:39, Figs 50, 95, 162. Holotype ♂. Columbia: Dept. Antioquia; Cristalina, Feb. 18, 1917, J.H. and E.B. Williamson. Cristalina, Columbia/February 18, 1917/J.H. and E.B. Williamson; *Heteragrion mitratum*/Williamson/TYPE-Orig.fig. 52, Pl. VI;/fig. 95, Pl. IX; Fig. 162, Pl. XII./Occ. Pap. Mus. Zool. U of Mich. No. 68/Det by E.B. Williamson 1919 [labels L.K. Gloyd].

An accessory label in the box written in pencil by Williamson states: *Heterag. mitratum/Cristalina/Columbia/feb. 18, 1917/Coll. E.B. Williamson/Type*.

monotis Kennedy (*Agnophilogenia*), 1941b:492, Figs 1-11. Holotype ♀. Ecuador: Pichincha/Sta. Domingo de las/Colorados, 550m./March 8, 1941/ D.B. Laddey and *Agnophilogenia/monotis*/Holotype ♀ [labels C.H. Kennedy].

The two right wings are slide mounted and the left forewing and two legs are pointed beneath the pinned specimen.

montivagans Förster (*Wahnesia*), 1900a:103. 1 ♂, 1 ♀ syntypes. Gegalau/Sattelberg b[ei]/Simbang/Deutsch Neu-/guinea/W. Wahnes 1-5/1899 and *Wahnesia/montivagans/♂* Type Foerster [labels F. Förster for ♂]. Labels for syntype ♂ similar but with D. Novguinea.

Lieftinck (1935:215) considered *montivagans* a *nomen nudum* and placed it under synonymy to *Argiolestes sidonia* Martin, 1908. As with *A. kirbyi*, we believe that Förster's original description of this taxon makes this name available for reasons stated under *A. kirbyi*. A lectotype ♂ was designated by Lieftinck (1971b:128) from the Természettudományi Múzeum, Allattára, Budapest. As with *W. montivagans* we have left the specimens in the UMMZ as syntypes pending further study by a specialist in the group. Currently known as *Argiolestes montivagans* (Förster, 1900).

percubitale Calvert (*Dimeragrion*), 1913:265, Pl. 14, Figs 7, 8. Holotype ♂. Wismar, British Guiana/Jan. 30, 1912. L.A. & E.B./Williamson & B.J. Rainey; Original of Figs 7 & 8/Proc. A. N. S. Phila. 1913, pl. XIV./*Dimeragrion m/percubitale*. Calv. [written]/P.P. Calvert, det. [printed] 1913 [labels P.P. Calvert]. The word TYPE is vertically written by Calvert on the right hand margin of the second label.

The specimen has been skewered with a fine bristle.

peregrinum Williamson (*Heteragrion*), 1919:51, Figs 52, 96, 167. Holotype ♂. Cristalina, Colombia/February 17, 1917/J.H. and E.B. Williamson; *Heteragrion peregrinum*/Williamson/TYPE-Orig. Fig. 52, Pl. VI; fig./96, Pl. IX; Fig. 167, Pl. XII. 1919. Occ. Pap. Mus. Zool. U of Mich. No. 68/Det. by E.B. Williamson [L.K. Gloyd].

An accessory label in the box written in pencil by Williamson states: *Heterag peregrinum*/Cristalina/Columbia/Feb. 17-1917/Coll. E.B. Williamson/Type.

peruviana Bick & Bick (*Philogenia*), 1988:23, Figs 8-10. Holotype ♂. PHILOGENIA PERUVIANA Bick & Bick ♂/det. G.H. Bick 1987/PERU, San Martin Department/Ekin, 3 mi. northeast Tarapoto, 950 m/March 16, 1947/F. Woytkowski/HOLOTYPY.

polyxena Calvert (*Philogenia*), 1924:27, Pl. I, Figs 30, 31. Holotype ♂. VENEZUELA 1920 [printed]/Aroa, [written] Yaracuy[printed]/March 13 [written]/J. [printed] H. [written] & E.B. Williamson [printed]; *Philogenia ♂/polyxena* Calvert/TYPE: Orig. Figs 30,31/Pl. I. Tr. Am. Ent. Soc. L [written]/P.P. Calvert det [printed] 1924 [labels P.P. Calvert].

redunca Cook (*Philogenia*), 1989:419, Figs 1-3. Holotype ♂. PHILOGENIA REDUNCA Cook M Ecuador/HOLOTYPY/ECUADOR, Napo Province/Yanamana/October 6, 1935/W.C. MacIntyre.

selysi Förster (*Argiolestes*), 1899a:70. Syntype ♂. Milnebai/D. Neuguinea/Staudinger vdt/1899 and *Argiolestes*/(*Podopteryx*) ♂ type/*selysi* Förster [labels F. Förster].

The type was not designated in the original description, based on two males. The other male is stated by Förster to be in the Selys collection. Currently known as *Podopteryx selysi* (Förster, 1899).

simulatum Williamson (*Heteragrion*), 1919:47, Figs 48, 97, 98, 164. Holotype ♂. Tumatumari,/British Guiana/February 11, 1912/L.A. and E.B. Williamson/and B.J. Rainey; *Heteragrion simulatum*/Williamson/TYPE-Orig. Fig. 48, Pl. VI; fig./97, 98, Pl. IX; Fig. 164, Pl. XII./Occ. Pap. Mus. Zool. U. Mich. No. 68. 1919./Det. by E.B.

Williamson [labels L.K. Gloyd].

An accessory label in the box written in pencil by Williamson states: Heterag. simulatum/Tumatumari/Br. Guiana/Feb. 11, 1912. Coll. E.B. Williamson/Type.

vallenatum De Marmels (*Teinopodagrion*), 2001:82. Holotype σ . SANTA MARTA MTS./COLOMBIA/J.H. & E.B. WILLIAMSON/DEC 30 1916 [stamped]; HOLOTYPE σ [pasted pink label in De Marmels' hand]; *Teinopodagrion vallenatum*/DEM[armels]' 96 σ & f [pencilled in De Marmels' hand].

waynu De Marmels (*Teinopodagrion*), 2001:90. Holotype σ . Lima/ Locality: vicinity of Rioja. Rio Seco /Departamento of San Martin-Peru/jungle ca. 900 m.a.s.level/Collector: Felix Woytkowski, Lima-Peru/Set. 18 1936 [stamped]; A mating pair taken over/a boggy brook in the jungle [written in pencil by F. Woytkowski]; HOLOTYPE σ [pasted red label in De Marmels' hand]; *Teinopodagrion waynu* sp. n. (cop)/DEM[armels]' 96 ϕ P[ara]T[ype] [pencilled in De Marmels' hand].

The holotype was taken in copula with a paratype ϕ .

Platystictidae

abbreviata Kennedy (*Palaemnema*), 1938a:256, Fig. 22. Holotype σ . Ecuador: Oriente/Rio Jatun Yacu, 700 m/Mar. 1937, near Hacienda Ila/W. Clarke MacIntyre/ ϕ 203 and *Palaemnema/abbreviata* Kennedy/Type σ .

brucei Calvert (*Palaemnema*), 1931:75, Pl. 1b, Fig. 59 (except D), Pl. 20, Fig. 89. Holotype σ . Cristalina COLOMBIA/February 16, 1917/J.H. & E.B. Williamson [label L.K. Gloyd] and *Palaemnema/brucei* Calv./TYPE σ 204/P.P. Calvert det./Original of Fig. 59 (except D), pl. XI, ϕ . 89, pl. XX./Tr. A.E.S. LVII [label P.P. Calvert].

brucei Kennedy (*Palaemnema*), 1938a:260, Figs 32, 33, 37. Holotype σ . Ecuador: Oriente/Rio Anzu, near Hacienda Ila/Dec. 18, 1936-500 m./W. Clarke MacIntyre ϕ 20. *Palaemnema/brucei* Kennedy/Type σ . [labels C.H. Kennedy].

The holotype is missing the left half of abdominal segment 9 and the penis has been removed and placed in a vial next to the specimen. Brown wrapping around the vial has the following in Kennedy's hand: penis/ #20/drawn.

croceicauda Calvert (*Palaemnema*), 1931:96, Pl. 16-17, Fig. 66, Pl. 21, Fig. 99. Holotype σ . Cristalina, COLOMBIA/February 15, 1917/J.H. & E.B. Williamson[label L.K. Gloyd], and *Palaemnema/croceicauda* Calv./TYPE σ 302/P.P. Calvert det. 1931/Original of Fig. 66./pls.

XVI, XVII, Fig. 99, pl. XXI. Tr. A.E.S. LVII [label P.P. Calvert].

dendrolagina Lieftinck (*Drepanosticta*), 1938:83. Lectotype σ designated by Lieftinck (1971b:123). Sattelburg/(Gegagalu)/Carl Wahnes σ /1899 [label F. Förster], red printed TYPE label and *Drepanosticta/dendrolagina* Lft./HOLOTYPE [written] det. M.A. Lieftinck 19 [printed] 38 [written] [label M.A. Lieftinck].

Lieftinck (1938), probably through oversight, did not specifically designate a holotype in his original description.

edmondi Calvert (*Palaemnema*), 1931:99, Plts. 16, 17, Fig. 61; Pl. 21, Fig. 100. Holotype σ . Cristalina, COLOMBIA/February 16, 1917/J.H. & E.B. Williamson [label L.K. Gloyd]; *Palaemnema/edmondi* Calvert/TYPE σ 301/P.P. Calvert det 1931/Original of Fig. 67/pls. XVI, XVII, f. 100/pl. XXI. Tr. A.E.S. LVII [label P.P. Calvert].

fontinalis Lieftinck (*Drepanosticta*), 1937b:64, Figs 56,6. Holotype σ . Kelantan/Ost Malacca/Heine vdt. 1903; *Platysticta quadrata kelantana* n. rasse/Förster [labels F. Förster]; and printed red label TYPE, and *Drepanosticta/fontinalis* Lieft./Holotype σ [written] det. M.A. Lieftinck 19 [printed] 36 [written] [label M.A. Lieftinck].

fraseri Kennedy (*Protosticta*), 1936a:67, Figs 1,2,6. Holotype σ . India: Assam/Feb.-Mar. 1935/U. Nissor Singh; *Protosticta/fraseri* Kennedy/Type σ . [labels by C.H. Kennedy].

joanetta Kennedy (*Palaemnema*), 1940b:626, Figs 1-8. Holotype σ . Panama: Upper Indio River/Dec. 28, 1936/Dr. S.W. Frost; *Palaemnema/joanetta* Kennedy/Type σ [labels C.H. Kennedy].

All legs except the right metathoracic leg and the head of the holotype are missing. An accessory label states: *Palaemnema joanetta* Kennedy/TYPE σ /(head lost Dec. 3, 40 after description thereof) /legs missing on receipt.

lorena Kennedy (*Palaemnema*), 1942a:97, Figs 1-5, 7, 9. Holotype σ . Ecuador: Pinchincha/La Lorena, Sta. Domingo/Feb. 25, 1941 550 m./D.B. Laddey (in pencil, the "n" was removed from Pichincha); *Palaemnema/lorena* Kennedy/Type σ [labels C.H. Kennedy].

The last seven abdominal segments are pointed below the pinned holotype.

melanocauda Kennedy (*Palaemnema*), 1942a:100, Figs 11-14. Holotype σ . Ecuador: Pichincha/Sta. Domingo de los/Colorados 500m./Jan. 4, 1941/D.B. Laddey; *Palaemnema/melanocauda* Kennedy/Holotype σ [labels C.H. Kennedy].

mutans Calvert (*Palaemnema*), 1931:63. Pl. 9, Fig. 5; Pl. 20, Fig. 86. Holotype σ . VENEZUELA/La Fria, Tachira/April 12 1920/J.H. &

E.B. Williamson/and W.H. Ditzler [label L.K. Gloyd]; *Palaemnema/mutans* Calv./TYPE/P.P. Calvert det. 1931/Original of figs./cited on p. 107 Tr./A.E.S. LVII; also Fig. 86, pl. XX. [label P.P. Calvert].

The holotype has been skewered with a bristle.

picicaudata Kennedy (*Palaemnema*), 1938a: 253, Figs 12, 14. Holotype σ . Ecuador, Oriente/Napo, 400 m./Feb. 24, 1934/W. Clarke-MacIntyre. *Palaemnema/picicaudata* Kennedy/Type σ [labels C.H. Kennedy].

pytho Lieftinck (*Drepanosticta*), 1937b:68, Fig. 7. Holotype σ . W. Sumatra/Padang, 1913/(?Rolle vend.)/Forster Coll. *Drepanosticta/pytho* Lieft./det. M.A. Lieftinck 1936/Holotype σ [labels M.A. Lieftinck].

Protoneuridae

amatoria Calvert (*Protoneura*), 1907:395, Pl. 10, Figs 50-52. Holotype σ . San Pedro, Honduras/February 28, 1905/E.B. Williamson [label L.K. Gloyd], and PROTONEURA AMATORIA Calvert σ /P.P. Calvert, det. 1907/B.C.A. Neur., p. 395 [printed]/Original of Pl. X, $\varphi\varphi$. 50-52/TYPE [written][label P.P. Calvert].

calverti Williamson (*Protoneura*), 1915:620, Pl. 44, Figs 23, 24. Holotype σ . Tumatumari/British Guiana/February 9, 1912/L.A. & E.B. Williamson/and B.J. Rainey and *Protoneura calverti*/Williamson/TYPE-Orig. Fig. 23, 24, Pl. 44. Proc. U.S. Nat. Mus. Vol. 48. 1915/det. by E.B. Williamson [labels L.K. Gloyd]. An accessory label in the box written in pencil by Williamson states: *Protoneura/calverti*/Tumatumari/Brit. Guiana/2/9/12. Coll. E.B. Williamson/Type.

cerasina Williamson (*Psaironeura*), 1915:629, Figs 31, 32. Holotype σ . Wismar, Brit. Guiana/January 30, 1912/E.B. Williamson *et al.*; *Psaironeura cerasina*/Williamson/TYPE-Orig. Figs 31, 32. Pl. 44/Proc. U.S. Nat. Mus. Vol. 48. 1915 [label L.K. Gloyd]/Det. by E.B. Williamson [printed]. An accessory label in the box written in pencil by Williamson states: *Psaironeura/cerasina*/Wismar/Brit. Guiana/1/30/12/Coll. E.B. Williamson/Type.

Currently considered a synonym of *Psaironeura tenuissima* (Selys, 1886).

corculum Calvert (*Protoneura*), 1907:396, Pl. 10, Figs 43, 45. Holotype σ . Livingston, Guatemala/February 18, 1905/E.B. Williamson [label by L.K. Gloyd]; PROTONEURA [printed] *corculum* Calv. σ [written]/P.P. Calvert, det [printed] 1907 [written]/B.C.A. Neur., p. [printed] 397 [written]/Original of Pl. X, $\varphi\varphi$ 43, 45/TYPE [written]

[label P.P. Calvert].

cyanura Förster (*Chlorocnemis*), 1909:234. Lectotype σ designated by Pinhey (1962:107). Hinterland σ /von Cameron/Herrn Rolle σ /1907; Chlorocnemis/cyanura Foerster/Type σ [labels F. Förster].

The type was not designated in the original description; based upon an unspecified number of males. Currently known as *Isomecocnemis cyanura* (Förster, 1909).

eburnea Förster (*Caconeura*), 1897e:336. 2 $\sigma\sigma$, 1 φ syntypes. 1 σ : Caconeura/Key Inseln/1896 Staudinger/vdt σ and Caconeura σ /eburnea Foerster/Type [labels F. Förster]; a small label with the following in pencil [in an unknown hand]: Sely./Len [?] III [?]/N.I; 1 σ : Key Inseln σ /Staudinger vdt 1896 and Caconeura σ /eburnea Foerster/Type [labels F. Förster pasted to envelope]; φ : Key Inseln/Staudinger vdt/1896 φ and Caconeura φ /eburnea Foerster/Type [labels F. Förster].

No type was designated in the original description, based on two males and a female in the Förster collection in addition to further examples in the Selys and Martin collection. Currently known as *Nosoticta salomonis eburnea* (Förster, 1897).

finisterrae Förster (*Caconeura*), 1897a:41. 1 σ , 1 φ syntypes. σ : Milne-Bai σ /O[est]. NeuGinea/Staudinger 1897 and Cacoconeura/finisterra/Foerster/type σ adult. There is also a printed label: Figured by/C.H. Kennedy/Aug.-Sept. 1924; φ : Milne Bai φ /O[st]. NeuGuinea/Staudinger 1897 and Cacoconeura/finisterrae/type φ adult [labels F. Förster].

The type was not figured in the original description, based on 1 σ and 3 $\varphi\varphi$. The φ syntype is lacking the head. Currently known as *Nosoticta finisterrae* (Förster, 1897).

fuscaenea Williamson (*Epipleoneura*), 1915:628, Pl. 44, Figs 29, 30. Holotype σ . Wismar, Brit. Guiana/Januaury 31, 1912/E.B. Williamson *et al.*; Epipleoneura fuscaenea/Williamson/TYPE-Orig. Figs 29, 30, Pl. 44. Proc. U.S. Nat. Mus. Vol. 48. 1915./Det. by E.B. Williamson [both labels by L.K. Gloyd]. An accessory label in the box written in pencil by Williamson states: Epipleoneura/fuscaenea/Wismar/Brit. Guiana/1/31/12 Coll. E.B. Williamson/Type.

Although Williamson did not specifically mention a type in his description, we consider his figure legend ("Figs. 29 and 30. Epipleoneura fuscaenea, type, Wismar, British Guiana, January 31, 1912") as a holotype designation.

incusa Williamson (*Epipleoneura*), 1915:627, Pl. 44, Figs 27, 28. Holotype σ . ROCKSTONE/British Guiana/L.A. & E.B. Williamson/

& B.J. Rainey/Feb. 1, 1912. *Epipleoneura incusa*/Williamson/TYPE-Orig. Figs 27, 28. Pl. 44./Proc. U.S. Nat. Mus. Vol. 48. 1915/Det. by E.B. Williamson [2 labels by L.K. Gloyd], and E.B.W-*Epipleoneura incusa*/Rockstone/Brit. Guiana/2/1/12 Coll. E.B. Williamson/Type [label E.B. Williamson]. A note on the paper triangle reads: Holotype σ *Epipleoneura incusa* Broken in transit to Dr. A.B. Machado 1984 [L.K. Gloyd].

Currently considered a synonym of *Epipleoneura capilliformis* (Selys, 1886).

joana Williamson (*Neoneura*), 1917b:215, Pl. 9, Fig. 1; Pl. 14, Figs 31, 32; Pl. 17, Figs 75, 76. Holotype σ . Tumatumari/British Guiana/February 11, 1912/L.A. & E.B. Williamson /and B.J. Rainey; *Neoneura joana* Williamson/TYPE-Orig. Fig. 1, Pl. IX;/Figs 31, 32. Pl. XIV; Fig. 75, Pl. XVII./Trans. Am. Ent. Soc. XLIII. 1917./Det. by E.B. Williamson [2 labels by L.K. Gloyd]; An accessory label in the box written in pencil by Williamson states: Neo. *joana*/Tumatumari/Feb. 11-1912/Coll. E.B. Williamson/Type.

jurzitzai Garrison (*Neoneura*), 1999: 363, Figs 2; 46, 49. Holotype σ . BRAZIL: Santa Catarina state, Nova Teutonia, 27°11'S, 52°13'W, 5 November 1942, Fritz Plaumann leg.

laidlawii Förster in Laidlaw & Förster (ssp. of *Disparoneura notostigma*), 1907:12. 1 σ , 1 φ syntypes. σ : Camp Jor/Nordgebirge auf/der Wasserscheide/zw[ischen] Perak, u[nd]. Pahang/Albert Grubauer/1901; *Disparoneura notostigma* Selys/Rasse *Caconeura*/Laidlawi [sic!] Foerster/ σ Type.; *Caconeura* σ Laidlawi [sic!] Foerster; φ : Camp Jor/Gebirge, Wasser/scheide zw[ischen] Perak/u[nd]. Pahang φ /2000 feet /Albert Grubauer/1901 and *Caconeura* φ /Laidlawi [sic!] Foerster/Type [labels F. Förster].

The type is not designated in the original description, based on an unspecified number of specimens of each sex. Presently known as *Prodasineura laidlawii* (Förster in Laidlaw & Förster, 1907).

lamina Williamson (*Epipleoneura*), 1915:625, Pl. 44, Figs 25, 26. Holotype σ . Wismar, Brit. Guiana/January 30, 1912/L.A. & E.B. Williamson/and B.J. Rainey and *Epipleoneura lamina*/Williamson/TYPE-Orig. Figs 25, 26, Pl. 44./Proc. U.S. Nat. Mus. Vol. 48. 1915./Det. by E.B. Williamson. [labels L.K. Gloyd].

An accessory label in the box written in pencil by Williamson states: *Epipleoneura lamina*/Wismar/Brit. Guiana/1/30/12 Coll. E.B. Williamson/Type σ .

macintyreii Kennedy (*Protoneura*), 1939b:2. Holotype σ . Ecuador: Prov. de los Rios/Mar. 5, 1938/W. Clarke-MacIntyre; *Protoneura*/

macintyre Kennedy /Type σ [labels C.H. Kennedy].

mariana Williamson (*Neoneura*), 1917b:224, Pl. 10, Fig. 4; Pl. 14, Figs 40, 41; Pl. 17, Fig. 81/ Holotype σ . Tumatumari/British Guiana/February 9, 1912/L.A. & E.B. Williamson/and B.J. Rainey. *Neoneura mariana*/Williamson/TYPE-Orig. Fig. 8, Pl. X; fig./40, 41 P. XIV; Fig. 81 pl. XVII./Trans. Amer. Ent. Soc. XLIII 1917. Det. by E.B. Williamson [labels L.K. Gloyd] and an accessory label in the box written in pencil by Williamson states: Neo./mariana/Tumatumari/ Feb. 9-12 /Coll. E.B. Williamson/Type σ .

myrthea Williamson (*Neoneura*), 1917b:228. Pl. 10, Fig. 11, pl. 15, Figs 46, 47, pl. 17, Fig. 84. Holotype σ ; Wismar, Brit. Guiana/January 31, 1912/L.A. & E.B. Williamson,/and B.J. Rainey; *Neoneura myrthea*/Williamson/TYPE-Orig. Fig. 11, Pl. X,/Fig. 46, 47, Pl. XV. Fig. 84, Pl. XVII/Trans. Am. Ent. Soc. XLIII 1917./Det. by E.B. Williamson [labels by L.K. Gloyd]. An accessory label in the box written in pencil by Williamson states: Neo./myrthea/Wismar/Jany. 31-12./Type σ / Coll. E.B. Williamson.

nehalennia Williamson (*Epipotoneura*), 1915:630. Pl. 44, Figs 33, 34. Holotype σ . Potaro Landing,/British Guiana/February 10, 1912/ E.B. Williamson *et al.* *Epipotoneura nehalennia*/Williamson/TYPE-Orig. Figs 33, 34, Pl. 44./Proc. U.S. Nat. Mus. V. 48. 1915./Det. by E. B. Williamson [labels by L.K. Gloyd]. An accessory label in the box written in pencil by Williamson states: *Epipotoneura nehalennia*/Potaro Landing/Brit. Guiana/2/10/12/Coll. E.B. Williamson/ B/Type σ over/(on reverse side of label: Pairing with B [B is the Allotype; same data but Type φ B]).

olmyra Williamson (*Phasmoneura*), 1916a:32, Figs of appendages. 2 $\sigma\sigma$ syntypes. Rockstone, Brit. Guiana/February 1, 1912/L.A. & E.B. Williamson/and B.J. Rainey; *Phasmoneura olmyra*/Williamson/TYPE-pp. 30-33/Ent. News XXVII. 1916/Det. by E.B. Williamson [labels L.K. Gloyd]. An accessory label in the box written in pencil by Williamson states: *Phasmoneura olmyra*/Rockstone, Brit. Guiana./ Feb. 1-1912 Coll. E.B. Williamson/Type.

No type was specified in the original description. Currently considered a synonym of *Phasmoneura exigua* (Selys, 1886).

scintilla Gloyd (*Protoneura*), 1939:1, Pl. 1, Figs 1, 5; Pl. 2, Figs 1-3. Holotype σ . Matto [sic for Mato] Grosso, BRAZIL/Abuná/77/ March 23, 1922/J.H. Williamson/and J.W. Strohm *Protoneura scintilla*/HOLOTYPE σ [in red]/Det. L.K. Gloyd 1938 [labels L.K. Gloyd].

selysii Förster (*Caconeura*), 1896a:423. 1 ♂ syntype. Patadalu/16. II. 1895/Sumba-Insel/(Sandelholz-Insel; Alloneura ♂ /selysii Forster [labels F. Förster]; This appears to/be *Caconeura selysii*/C.H.K. [label C.H. Kennedy]; Figured by/C.H. Kennedy/Aug.-Sept., 1924 [printed].

The type was not designated in the original description, based on two males. The other syntype was stated to be in Selys' collection. Currently known as *Nosoticta selysii* (Förster, 1896).

woytkowskii Gloyd (*Protoneura*), 1939:8, Pl. 1, Figs 7, 8, 12-15; Pl. 2, Figs 6-8. Holotype ♂. San Martin, PERU/Vicinity of Rioja, Soritor/October 13, 1936/Felix Woytkowski *Protoneura/woytkowskii*/TYPE ♂ [in red]/Det. L. K. Gloyd 1938 [labels L.K. Gloyd].

Pseudostigmatidae

[*bolivianum* Schmidt (ssp. *Microstigma anomalum*). A pair of this species from Bolivia (Rio Beni, Cashuela Esperanza) is in the type collection with a note in ink by Schmidt: "Typen subsp. bolivianum" and with a small printed red label "Typus," however no name was published by Schmidt (1958) in his monograph of the genus. The name was apparently a manuscript name.]

garleppi Förster (*Mecistogaster*), 1903c:356. ♂, ♀ syntypes. ♂ and ♀: Marcapata (Peru)/1000-2000 ♂./leg. O. Garlepp/vdt Dr. O. Staudinger/& Bang-Hass 1902 and *Mecistogaster/garleppi* Foerster/Type ♂ [or ♀] [labels F. Förster].

The type was not designated in the original description, based on a male and female. Examination of these specimens shows them to represent *Mecistogaster buckleyi* McLachlan, 1881. **Syn. Nov.**

vicinum Schmidt (ssp. *Microstigma anomalum*), 1958:36, Pl. II, Fig. 5. Holotype ♂. Maués, Amazonas, Brazil/Rio Maués/April 1932/From - F. Wucherpfennig, Dinglestädt. Nov. 1932 [Printed on envelope] and small printed red label "Typus."

From the original description, Schmidt (1958:37) cites 17 ♂, 4 ♀ from the type locality and adds: "...---from here the types (envelopes 105, 17)". Schmidt's Figures 5 and 6 on plate II state "♂...(Holotypus)" and "♀...(Allotypus)" respectively. The type collection has both specimens. The envelope with the male (♂105) is labeled by Schmidt as "Holotypus" with the letters "Holo-" crossed out and replaced by "Allo-". The reverse is true for the female (♀17) which is labeled as "Holotypus". We consider Schmidt's changes incorrect and follow his published figure citation in designating the male as holotype.

Platycnemididae

agrioides Ris (*Platycnemis*), 1915:138. Lectotype σ designated by Pinhey (1962:111). Mayotte, S. Africa/May 13, 1911/G.F. Leigh and *Platycnemis agrioides* Ris./TYPE σ [labels E.J. Kormondy].

Accessory labels, in Ris' handwriting, and cut from the original envelope state: Mayotte/13/5/11/G.F.L. and *Platycnemis/n. sp. σ /agrioides/Type* and *agrioides/Type*. Originally described from 4 males and 2 females.

albicauda Förster in Laidlaw & Förster (ssp. *Trichocnemis octogesima*), 1907:5. Holotype σ . Camp Jor/Wasserscheide zw[ischen]./Pahang u[nd]. Perak/Inner Malakka/Albert Grubauer/1901 2000 m. [*sic!*] and *Trichocnemis/octogesima Selys/Rasse albicauda/Type* Förster σ [labels F. Förster].

Förster's description makes clear that he had only one male. Currently known as *Coelliccia albicauda* (Förster in Laidlaw & Förster, 1907).

leonorae Lieftinck (*Idiocnemis*), 1949:95, Figs 106-107. Holotype σ . Bulung gebiet /Ogeramnang 1914/1500-2000 m [label F. Förster - pasted on envelope]; *Idiocnemis/leonorae/Lieft./Type/East New Guinea/Huon Gulf/2499 Mus. Ann Arbor* [label M. Lieftinck]; TYPE [printed on red label, pasted to envelope].

orang Förster in Laidlaw & Förster (*Trichocnemis*), 1907:2. 1 σ , 1 ϕ syntypes. σ : Camp Jor Nordgebirge σ /auf der Wasserscheide zw[ischen]./Pahang u[nd]. Perak/Inner Malakka/2000 feet 1901/Albert Grubauer and *Orocnemis n. gen./orang n. sp./ σ Type* Foerster. ϕ : Camp Jor/Wasserscheide/zw[ischen]. Pahang u[nd]. Perak/Inner Malakka/2000 m. [*sic!*] 1901/Albert Grubauer and *Orocnemis n. g./orang n. sp./ ϕ Type* Foerster.

The type was not designated in the original description based on 1 σ and 1 ϕ . Currently known as *Indocnemis orang* (Förster in Laidlaw & Förster, 1907).

Coenagrionidae

abuna Bick & Bick (*Telebasis*), 1995:18-19, Fig. 14. Holotype σ , allotype ϕ . Brazil, Matto Grosso State [actually Rondonia State, according to authors] Abuna, March 15, 1922. J.H. Williamson & J.W. Strohm.

Holotype and allotype in same envelope - each one in several pieces.

labunae Leonard (*Acanthagrion*), 1977:37, Figs 69, 73, 74. Holotype σ . Brazil/State of Matto Grosso/Abuná/J.H.W[illiamson]. & J.W.

S[trohm]./ MAR 14 1922.

RWG was unable, despite a careful search, to discover any material labeled by Leonard as types.]

acaciae Förster (*Pseudagrion*), 1906c:56. Lectotype σ designated by Pinhey (1962:123). Kart Hartman/Komatipoort/Transvaal/ φ . I.1898 σ and *Pseudagrion* Foerster/*acaciae* n. sp. Type [labels F. Förster].

No type was designated in the original description, based on one male and one female.

adustum Williamson (*Acanthagrion*), 1916c:320. Wismar, Brit. Guiana/February 15, 1912/L.A. & E.B. Williamson/and B.J. Rainey *Acanthagrion adustum*/Williamson/TYPE-Orig. Fig. 1-2, Pl. xvii/Ent. News Vol. XXVII. 1916/Det. by E.B. Williamson [labels by L.K. Gloyd]. An accessory label in the box written in pencil by Williamson states: *Acanthag./adustum/Wismar/Brit. Guiana/2/15/12 Coll. E.B. Williamson/Type*.

alcicorne Förster (*Pseudagrion*), 1906c:64. Holotype σ . Montagne de l'Ambre/Madagascar, *Pseudagrion σ /alcicorne Foerster/Type* [labels F. Förster].

andinum Förster (*Amphiagrion*), 1909:231. 2 σ syntypes. Yungas de la/Paz Bolivia σ /Rolle vdt. 1904.

The type was not designated in the original description, based on four males, four females from Peru and Bolivia. One male is juvenile and lacks abdominal segments 4-10. Currently considered a synonym of *Protallagma titicacae* (Calvert, 1909).

anna Williamson (*Enallagma*), 1900:455. 1 σ , 1 φ syntypes. σ : Sheep Creek, Wyoming/July 23, 1899/E.B. Williamson; *Enallagma anna*/Williamson/TYPE-Orig. Fig. 1-2, Pl. IX./Ent. News 1900./Det. by E.B. Williamson. φ same data second label as follows: *Enallagma anna/Williamson/ALLOTYPED/Ent. News 1900./Det. by E.B. Williamson [labels L.K. Gloyd]*. An accessory label in the box written in pencil by Williamson states: *Enallagma/anna Sheep/Creek, Wyo./7-23-99/Coll. E.B. Williamson*.

No type was selected in the original description, based on 8 males and 3 females.

argenteolineatum Förster (*Hylaeagrion*), 1906a:15 (4 sep.). 1 σ Syntype. Surinam σ 1902/Dr. O. Staudinger/& A. Bang Haas vdt. and *Hylaeagrion/Type/argenteolineatum σ /Förster* [labels F. Förster].

No type was designated in the original description based on 3 males. Besides the male syntype, there are a male and a female

in envelopes with same data labeled as types in Förster's hand in the main collection. These labels have been cut and are pasted on a single envelope containing the pair. Another pasted label, probably in L.K. Gloyd's hand states: "Probably *Hylaeagrion croceum* Selys/of Förster (1906) now *Aeolagrion*." The male almost certainly is the specimen used in Figs 15 and 16 of Williamson (1917a) and also referred to by Costa and Garrison (2001:388) as (erroneously) possibly representing illustrations by Selys. This pair, whose identity is uncertain, is that described by Förster (1906:15) as *Hylaeagrion croceum* Selys. The determination labels in Förster's hand are incorrect; these two specimens are not syntypes.

Currently considered a synonym of *Aeolagrion dorsale* (Burmeister, 1839).

augustana Navás (*Argia*), 1934b:180, Fig. 54. Holotype ♀. S. Antonio de Tena/(Colombia)/Agosto 1926 [pale blue hand written label by Navás]; *Argia/augustana* ♂ Nav. [rectangular green label hand printed]/P. Navás S.J. det. [printed]; Typus [small pink label printed in Navás's hand]; on envelope, *Argia augustana* ♂ Nav./Colombia/ tipo Regalo.

The holotype (UMMZ) was relaxed and placed in an envelope and sent to L.K. Gloyd in the 1930's. Examination by Gloyd and RWG showed it to be a junior synonym of *Argia medullaris* Hagen in Selys, 1865. **Syn. Nov.**

baueri Förster (*Skiallagma*) 1906c:23. (1 reprint). 2 ♂♂ syntypes. Umgebung/von Sao Paulo/Brasilia/Bauer 1905 ♂/Prov. Sao Paulo and Skiallagma /Baueri Förster/Type ♂ n.g. n. sp. [labels F. Förster], Figured by C.H. Kennedy, Aug-Sept., 1924 [printed].

No type was designated in the original description, based on two males.

brysonima Williamson (*Metaleptobasis*), 1915:602, Pl. 38, Figs 5-8. Holotype ♂. Cumuto, Trinidad/March 10, 1912/L.H. & E.B. Williamson/and B.J. Rainey; *Metaleptobasis brysonima*/Williamson/TYPE-Orig. Figs 5-8, Pl. 38./Proc. U.S. Nat. Mus. Vol. 48. 1915/Det. by E.B. Williamson. [2 pinned labels by L.K. Gloyd]. An accessory label in the box written in pencil by Williamson states: *Metaleptobasis/brysonima/Cumuto, Trinidad/Type/3/10/12// Coll. E.B. Williamson. Another label in box reads "Spelling of name corrected by E.B.W. -1917. M. byrsonima."*

cantralli Santos (*Mesoleptobasis*), 1961c:197, Figs 1-3. Holotype ♂. Brazil/State of Amazonas/Porto Velho/J.H.W[illiamson]. & J.W.S[trohman]./May 14, 1922/♂ ♀ [pencilled by E.B. Williamson]/

Mesoleptobas/1/133; Mesoleptobasis/cantralli/N. Dias dos Santos 1961; Alotipo; Holotipo [last two red labels]-all on paper triangles.

carota Kennedy (*Telebasis*), 1936c:807. Holotype σ . Ecuador Oriente (Prov.)/Sta. 4 near Partidero/800 m., on Rio Anzu./Nov. 11, 1935/W. Clarke-McIntyre; Telebasis/carota Kennedy/Type σ [labels by C.H. Kennedy or E.J. Kormondy]. Accessory labels from the original envelope by Kennedy state: Partidero φ 4/11.xi.35; Holotype/carota n.s./Telebasis/Rio Napo/watershed [this last stamped].

commoniae Förster (*Erythromma*), 1902:75 (7 reprint). Holotype σ . Erythraea σ /Dr. O. Staudinger/1901 vdt. and Erythromma/commoniae n sp./Type σ [labels F. Förster].

Currently known as *Pseudagrion commoniae* (Förster, 1902).

concisum Williamson (*Enallagma*), 1922b:117, Figs 6-9. Holotype σ . Enterprise, Florida/April 21, 1921/J.H. Williamson; Enallagma concisum/Williamson/TYPE-Org. Figs 6-9, Pl. VI/Ent. News No. XXXIII 1922./Det by E.B. Williamson [label L.K. Gloyd]. An accessory label in the box written in pencil by Williamson states: En. concisum/Enterprise, Fla./April 21, 1921/J.H.W. TYPE/Coll. E.B. Williamson.

credulum Hagen (*Agrion*), 1861:80. 1 σ Syntype. Winthem [label printed]; Hagen [label printed]; credulum/St. Thomas [penciled label unknown hand]; Type/8/1675 [red labels with hand written numbers by N. Banks].

No type was designated in the original description, based on an unspecified number of specimens. Currently considered a synonym of *Ischnura ramburii* (Selys, 1850).

cyathigera Navás (*Argia*), 1934b:181, Fig. 55. 1 σ **LECTOTYPE** (by present designation), 1 φ **paralectotype** (by present designation). Caixas/Brasil/XII-1932/; Typus; Argia cyathigera σ Nav./Navás S.J. det.

The female was suspected by the late L.K. Gloyd to be a specimen of *Argia croceipennis* Selys, 1865. Comparison of this female with *bona fide* females of *A. croceipennis* confirms her opinion. As RWG is currently working on this genus, he designates the male as lectotype in order to preserve the name *cyathigera*. Currently known as *Argia cyathigera* Navás, 1934.

dagnina Förster (*Argia*), 1914:62. 2 $\sigma\sigma$ syntypes. St. Jose, Colombia/Rio Dagua, 200 m./March 1909; F. Foerster/Collection; Argia/dagnina Forster/Type σ /1914. Beitrage Gatt. u. Art. Lib. (III). Arch. Nat. Jahra. 80A:2: 62-63.

Two accessory labels, cut from the envelope are by F. Förster: *Argia dagnina*/*Argia minima* [crossed out] B[or R?] pulla S/III. 09/St Jose/ Rio Dagna/200 m/[undecipherable] and *Argia dagnina*/[undecipherable]/N 2 n. sp./*Argia pupilla*! [crossed out] pulla/Selys/200 m Lib [?]/III. 09/St Jose/Rio Dagna. No type was designated in the original description, based on two males. Examination of the inscribed labels by Förster shows that the dates transcribed above were probably not written at the same time. In the original description, Förster misspelled the type locality as "Dagna." Examination by Gloyd and RWG showed these specimens to be *Argia indicatrix* Calvert, 1902. **Syn. Nov.**

deceptum Leonard (*Acanthagrion*), 1977:110, Figs 120, 127, 128. Holotype σ . PERU: Campamiento/Colonia del Perene/June 7, 1920/J.H. Williamson/Loc. ϕ 14/Acnth. *deceptum* n. sp./TYPE σ (all in J.W. Leonard's hand).

Currently considered a synonym of *Acanthagrion peruanum* Schmidt, 1942.

demararum Williamson (*Aeolagrion*), 1917a:244. Holotype σ . Georgetown/British Guiana/January 26, 1912/L.A. & E.B. Williamson and B.J. Rainey; *Aeolagrion demararum*/Williamson/TYPE-pp. 244-247/Ent. News Vol. XXVIII 1917. Det. by E.B. Williamson [labels by L.K. Gloyd]. An accessory label in the tray written by E.B. Williamson reads: *Aeolagrion*/*demararum*/Georgetown/Brit. Guiana/1/26/12/Coll. E.B. Williamson/Type.

We consider Williamson's statement "types, a σ and ϕ , January 26..." as designation of holo- and allotype respectively. Currently known as *Telebasis demararum* (Williamson, 1917).

dives Förster (*Argia*), 1914:61. Holotype σ : Cuprea/*dives*/Type/ σ n. sp./Vilcanota/auro/pecten [?]; Rasse garleppi var/*Argia cuprea*/Rasse [in pencil]/Vilcanota [crossed out] F[örster]. [all of these in ink from original envelope], T 6.99 [undecipherable, in pencil [labels F. Förster], *Argia dives* Type σ /E.B.W. 8/2/24 [labels written in pencil, E.B. Williamson], Figured by/C.H. Kennedy Aug.-Sept., 1924 [printed].

In the original description, the genus is misspelled *Argas*.

dolobrata Lieftinck (*Teinobasis*), 1938:114, Fig. 47. Holotype σ and allotype ϕ (in cop.). Taimi Insel/Haenishafen/Carl Wahnes/März 1900/Huon Gulf, σ [or ϕ]; cop. [two labels by F. Förster pasted to envelope]. The following in ink by Lieftinck: $\sigma \phi$ in cop./*Teinobasis*/*dolobrata* Lieft./Type & allotype/ex. coll./F. Förster/N.E. New Guinea, Huon Gulf/ex. Mus. Ann Arbor no. 2239/2240.

exsulans Hagen (*Agrion*), 1861:82. 1 ♂, 1 ♀ syntypes. Virginia/Berkeley Springs/O. Sacken [label H. Hagen]; hamata [label unknown hand]; Hagen [label printed]; Type/3/12273 [red labels with hand written numbers by N. Banks].

No type was designated in the original description, based on an unspecified number of specimens. Currently known as *Enallagma exsulans* (Hagen, 1861).

flammeola Kennedy (*Telebasis*), 1936c:804. Holotype ♂. Ecuador: Prov. Oriente/Rio Yanamanaca/Nov. 2, 1935/W. Clarke-McIntyre; *Telebasis/flammeola* Kennedy/Type ♂ [labels by C.H. Kennedy or E.J. Kormondy]. An accessory label from the original envelope by Kennedy states: Yanamanaca/Oriente/Ecuador; *Telebasis/flammeola* K./Holotype/Nov. 2-1935 [stamped]/Wm. Clarke-McIntyre.

fraudatricula Förster (*Argia*), 1914: 64. ♂, ♀ syntypes: ♂: Vilcanota/♂ Type; *Argia fraudatricula*/n. sp. [labels cut from envelope in F. Förster's hand]; *Argia fraudatricula* Type ♂/E.B.W. 8/12/24 [label written in pencil, E.B. Williamson]; Figured by C.H. Kennedy Aug.-Sept., 1924 [printed]. ♀: A vilcanota and *Argia* n. sp./Vilcanota *fraudatricula*/♀ [labels cut from envelope in F. Förster's hand]; *Argia fraudatricula* Type ♀/E.B.W. 8/12/24 [label written in pencil, E.B. Williamson]; Figured by C.H. Kennedy Aug.-Sept., 1924 [printed].

No type was designated in the original description, based on 3 ♂♂ and 2 ♀♀.

frequentula Calvert (*Argia*), 1907:365, Pl. 10, Figs 9, 10. Holotype ♂. San Pedro, Honduras/Feb. 28, 1905/E.B. Williamson. ARGIA/FREQUENTULA Calv. ♂/P.P. Calvert, Det. 1907./B.C.A. Neur., p. 365/Orig. of Pl. X, ♀♀, 9, 10. TYPE.

garrisoni Bick & Bick (*Telebasis*), 1995:28-30, Figs 10-11. Holotype ♂, Allotype ♀: Columbia, [Magdalena Dept.], El Banco, Jan. 25, 1917. J.H. and E.B. Williamson.

El Banco is written in pencil, the rest of the data is stamped on the triangle.

gladiolatum Williamson & Williamson (*Neoerythromma*), 1930:7, Pl. II, Figs 14, 16, 17. Holotype ♂. Acaponeta, Nayarit, Mexico/November 1, 1923/No. 220/J.H. Williamson; *Neoerythromma gladiolatum*/E.B. & J.H. Williamson/TYPE-Orig. Figs 16, 17, Pl.II, p. 7-11/Occ. Pap.Mus. Zool. Univ. Mich. No. 216/Det. by E.B. Williamson 1930 [label L.K. Gloyd]. An accessory label in the box written in pencil by Williamson states: N. gladiolatum/Type/Coll. E.B. Williamson.

gracilis Morse (*Nehalennia*), 1895b:274. 3 ♂, 1 ♀ syntypes. Sherborn, Mass. [printed]/June 24, 95 [written A. Morse]; *Nehalennia/gracilis*/Type Morse [label A. Morse]; Type/18 [and 20, 22, 24]/53 [red labels with hand written numbers by N. Banks].

No type was designated in the original description, based on 13 ♂ and 11 ♀.

hermosae Leonard (*Acanthagrion*), 1977:51, Figs 81, 85, 86. Holotype ♂. [PERU], Collector: Felix Woytkowski, Lima/Locality: vicinity of Pampa Hermosa/Date 6-11th of May, 1935. 1600 m. a. s. level [stamped] TYPE ♂/*hermosae* n. sp. (in pencil by Leonard).

hinei Kennedy (*Argia*), 1918:258. Holotype ♂. Fillmore, California/Sespe River/August 7, 1915/C.H. Kennedy/*Argia hinei* Kennedy TYPE ♂.

Two accessory labels, cut from the original envelope state: *Argia hinei*/n. sp. Kennedy, Fillmore, CAL/Sespe Riv./Aug. 1915/C.H. Kennedy coll. [this last vertically on label, all printed], *Argia* pr./Holotype & Paratype [label C.H. Kennedy].

holdereri Förster (*Agrion*), 1900b: 264, Pl. 3, Figs 1-4. Holotype ♂. Nanshan/10.VII.1898/Dr/J. Holderer/college, *Agrion* ♂/*(Coenagrion)/holdereri* m[ihi]./Type.

The right front wing is missing from the holotype. Currently known as *Coenagrion holdereri* Förster.

huanacina Förster (*Argia*) 1914:67. 2 ♂, 1 ♀ syntypes. ♂: PERU/Maracapata; F. Förster/Collection; *Argia/huanacina* Förster TYPE ♂/1914. Beitrage Gatt. u. Art. Lib./(III) Arch. Nat. Jahrg. 80A 2:67-68 [3 labels by L.K. Gloyd]; ♂: *Argia* Förster/*huanacina* n. sp./Type and Ob[ere] Madre de Dios/Peru 500 m [labels F. Förster pasted on envelope]; ♀: same data as first ♂.

The original envelope next to the first (pinned) syntype has the following in Förster's hand: M. [in red ink] *Argia* ♀ [sic, in pencil], *huanacina*/♀. An added notation by L.K. Gloyd states: ♂ was in this/envelope. L.K. Gloyd 1933. On the other side of the envelope is the following in Förster's hand: ♂ [undecipherable] M/[undecipherable] III/undecipherable letters.

hubelli Santos (*Inpabasis*), 1961a:5, Pl. I, Figs 3,6,7,10; Pl. II, Figs 19, 25. Holotype ♂. *Metaleptobasis* ♂ (2) [in pencil by L.K. Gloyd]/PERU: Dept. Loreto/Iquitos, Rio Amazonas/May 1940 100 m/Guillermo G. Klug/C.H. KENNEDY COLLECTION [all printed]/HOLOTYPUS/*Inpabasis/hubelli* [printed]/N. DIAS DOS SANTOS [printed] 1961 [written] [label: Dos Santos], small printed red label HOLOTIPO.

humida Förster (ssp. *Palaiargia flavovittata*), 1903a:552. Lectotype σ designated by Gloyd in Lieftinck 1949:116. Sattelberg/Gegagalu σ /Huongolf/N[ord]O[st] Neuguinea/Carl Wahnes/Sommer, 1900; Palaiargia/flavovittata Selys σ Type/subrasse humida Foerster [labels F. Förster]; Palaiargia/humida Förster/Lectotype! σ [in Lieftinck's hand] /Det M.A. Lieftinck 19 [printed] 57 [written].

We correct the statement by Lieftinck (1949:116): "Mrs. Howard K. Gloyd informs me that there are 2 σ and 2 φ , including the type of this species, in the collection of the Michigan Museum, Ann Arbor. The holotype [*sic!*, should be lectotype] σ is labeled by FÖRSTER...." Currently known as *Palaiargia humida* Förster.

incolumis Williamson & Williamson (*Telebasis*), 1930:1. Holotype σ . San Jose de Comandu/Baja Calif., MEXICO/October 10, 1923/J.H. Williamson/No. 214 and Telebasis incolumis/E.B. & J.H. Williamson/TYPE-Orig. Fig. 20. Pl.II./Occ. Pap. Mus. Zool. U. of Mich. No. 216/Det. by E.B. Williamson 1930 [label L.K. Gloyd]. An accessory cutout label from the original envelope in the box written in pencil by Williamson states: Telebasis incolumis/Type/214.

indefensum Williamson (*Acanthagrion*), 1916c:319, Figs 3, 4, 7. 2 $\sigma\sigma$ syntypes. Wismar, Brit. Guiana/February 16, 1912/L.A. & E.B. Williamson/and B.J. Rainey Acanthagrion indefensum/Williamson/TYPE-Orig. Figs 3, 4, 7, Pl. XVII/Ent. News. Vol. XXVII. 1916/Det. by E.B. Williamson [labels L.K. Gloyd], accessory label [E.B. Williamson]: Acanthag./indefensum/Wismar, Brit. Guiana./2/16/12 Coll. E.B.Williamson. Type.

In his original description, Williamson did not designate a type specimen ("...two males in my collection").

inexpectum Leonard (*Acanthagrion*), 1977:41, Figs 70, 75, 76. Holotype σ . CANAL ZONE/Rio Mazamba/J.H. & E.B. Williamson/Dec. 6, 1916/A. inexpectum n. sp./Type σ (all in J.W. Leonard's hand).

indocilis Navás (*Argia*), 1934b:183. 1 σ syntype. Caxias/febrero de 1932/Teodoro [pale blue hand written label by Navás]; Argia/indocilis σ Nav. [rectangular green label hand printed]/P. Navás S.J. det. [printed]; Typus [small pink label printed in Navás's hand]; on envelope, Argia indocilis σ Nav.

RWG, in his study of South American species of the genus *Argia* has examined at least two syntype males, one in the Musée Natural Histoire Paris, the other from this collection. The syntype (UMMZ) was relaxed and placed in an envelope and sent to L.K. Gloyd in the 1930's. Examination of both, which are complete, shows *A. indocilis* to be a *bona fide* species.

intruda Williamson (*Argia*), 1912:200. Lectotype σ designated by Garrison (1994a:319). Wistar, Oklahoma/August 2, 1907/Frank Collins; *Argia intruda*/Williamson/TYPE-pp. 196-203./Ent.News Vol. XXIII 1912./Det. by E.B. Williamson [both labels by L.K. Gloyd]. An accessory label in the tray written by E.B. Williamson reads: *Argia intruda*/Wistar, Okla./Aug. 2-07/Type/Coll. E.B. Williamson.

Currently considered a synonym of *Argia moesta* (Hagen, 1861).

kelicotti Williamson (*Ischnura*), 1898:9. 2 $\sigma\sigma$, 1 φ syntypes. σ, φ : Round Lake, Indiana/June 7, 1898/E.B. Williamson and *Ischnura kelicotti*/Williamson/TYPE-pp. 209-211/Ent. News Vol. IX 1898/Det. by E.B. Williamson [label L.K. Gloyd]. An accessory label in the box written in pencil by Williamson states: *Isch. kelicotti* σ /Round Lake, Ind./June 7, 1898/Type/Coll. E.B. Williamson. σ : *Ischnura kelicotti*/Williamson σ /paratype/Round Lake, Whitley/County, Indiana/June 24, 1898./E.B. Williamson [label on envelope by E.B. Williamson].

No type was designated in the original description based on an unspecified number of males and females. Although the papered syntype male in Williamson's own hand states "paratype," we consider it a syntype.

kennedii Williamson (*Acanthagrion*), 1916c:314, Figs 5, 6, 8. Holotype σ . Cumuto, Trinidad/March 10, 1912/E.B. Williamson *et al.* *Acanthagrion kennedii*/Williamson/TYPE-Orig. Figs 5, 6, 8, Pl. XVII/Ent. News. Vol. XXVII. 1916/Det. by E.B. Williamson [Labels J.L. Leonard?]. An accessory label in the tray written by E.B. Williamson reads: *Acanthag./kennedii/Cumuto/Trinidad/3/10/12* Coll. E.B. Williamson./Type.

We consider Williamson's statement "...types a σ and φ , Cumuto, Trinidad, March 10, 1912, in the writer's collection" as designation of holo- and allotype respectively. Three legs are pointed below the holotype.

kennedyi Leonard (*Anisagrion*), 1937:2. Holotype σ . Panama: Potrerillos/Feb. 8, 1935/W. Clarke-McIntyre/for C.H. Kennedy *Anisagrion/kennedyi* Leonard/Type σ [labels by J.W. Leonard?].

laterale Morse (*Enallagma*), 1895b:274. 2 $\sigma\sigma$ syntypes. Wellesly, Mass. [printed]/June 8, 95 [written A. Morse]; *Enallagma/laterale*/Morse [label A. Morse]; Type/14 [and 17]/54 [red labels with hand written numbers by N. Banks].

No type was designated in the original description, based on 23 $\sigma\sigma$.

leonorae Lieftinck (*Teinobasis*), 1937b:97, Fig. 22. Holotype σ . Malay

Peninsula/Penang/Staudinger/(Förster Coll); *Teinobasis/leonorae* Lieftinck/type ♂. An accessory label from the original envelope by Lieftinck states: *Teinobasis spec. nov.*; Allied perhaps to *T. rajah* Laid. (nec. *T. Kirby!*)/1152 [in green ink]/*Teinobasis leonorae* ♂ Lieftinck/TYPE [red label]/Penang; and the following, probably in Förster's hand: Penang [red ink]/F. FÖRSTER COLLECTION [stamped].

The last four abdominal segments are broken and pointed beneath the holotype. Currently considered a synonym of *Teinobasis rajah* Laidlaw, 1912.

livida Kennedy (*Telebasis*), 1936c:811, Figs 9-25, 28, 30, 31. Holotype ♂. Ecuador: Prov. Oriente/Between Rio Ila and/Rio Anzu, 800 m./Nov. 1934. W. Clarke-MacIntyre; *Telebasis/livida* Kennedy/Type ♂ [labels by C.H. Kennedy or E.J. Kormondy]. Accessory labels from original envelope by Wm. Clarke MacIntyre state: Between/Rio Ila & Rio Pupuyaco; genus ?/abd. red tip [and the following in Kennedy's hand:] *Telebasis/lividus* K./near *garleppi* Ris/& *coccinata* Calv./Holotype.

longispinosum Leonard (*Acanthagrion*), 1977:24, Figs 58, 63, 64. Holotype ♂. Brazil/State of Matto [sic!] Grosso/Villa Murтинho/J.H.W. & J.W.S./APR-7 1922 [stamped]/*longispinosum* n. sp. Type ♂ [all in J.W. Leonard's hand].

luteum Williamson & Williamson (*Acanthallagma*), 1924b:16, Figs 2, 4. Holotype ♂. Villa Murтинho/Matto Grosso, Brazil/April 2, 1922/J.H. Williamson and J.W. Strohm/96; *Acanthallagma luteum*/E.B. Williamson/TYPE-Orig. Figs 2, 4, Pl. I. Occ. Pap. Mus. Zool. Univ. Mich. No. 154 /det. by E.B. Williamson 1924 [pinned labels by L.K. Gloyd]. Accessory label by E.B. Williamson: *Acanthallagma/luteum*/Type/Coll. E.B. Williamson.

machadina Förster (*Argia*), 1914:63. Holotype ♂. BRAZIL/Matto [sic! Mato] Grosso/Rio Machados; F. Forster/Collection [printed]; *Argia/machadina* For. TYPE ♂/1914. Beitrage Gatt. u. Art. Lib. (III)/Arch. Nat. Jahrg. 80A 2:63 [2 labels by L.K. Gloyd].

The original label, cut from the original envelope and placed next to the holotype has the following in Förster's hand: Rio Machados/machadina Brasil and *Argia/andrei*[?]. Comparison of the holotype with several examples of *Argia difficilis*, females of which were directly compared to Selys' holotype ♀ in the Selys collection by NvE, confirm Gloyd's suspicion that *A. machadina* is a junior synonym of *A. difficilis* Selys, 1865. RWG examined this specimen and agrees with previous notes by L.K. Gloyd, confirming their synonymy.

Currently considered a synonym of *Argia difficilis*. **Syn. Nov.**

manicaria Williamson (*Metaleptobasis*), 1915:603. Holotype ♂. Cumuto, Trinidad/March 10, 1912. L.A. and E.B. Williamson/and B.J. Rainey; *Metaleptobasis manicaria*/Williamson/TYPE-pp. 603-607. Proc. U.S. Nat. Mus. v. 48 1915/Det. by E.B. Williamson [label L.K. Gloyd]. An accessory label in the box written in pencil by Williamson states: *Metaleptobasis/manicaria/Cumuto, Trin./Type 3/10/12/Coll. E.B. Williamson.*

mauritica Williamson (*Metaleptobasis*), 1915:603. Holotype ♂. Cumuto, Trinidad/March 10, 1912. L.A. and E.B. Williamson/and B.J. Rainey; *Metaleptobasis mauritia*/Williamson/TYPE-pp. 603, 604,607. Proc. U.S. Nat. Mus. v. 48 1915/Det. by E.B. Williamson [label L.K. Gloyd]. An accessory label in the box written in pencil by Williamson states: *Metaleptobasis/mauritica/Cumuto, Trin./Type 3/10/12/Coll. E.B. Williamson.*

The last six abdominal segments are broken, but are pointed with the holotype.

medinensis Navás (*Argia*), 1935:35, Fig. 2. 1 syntype ♂. Colombia/Medina/Enero de 1918/[pale blue handwritten label by Navás]; *Argia/medinensis* ♂ Nav. [rectangular green label hand printed]/P. Navás S.J. det. [printed]; Typus [small pink label printed in Navás's hand]; on envelope, *Argia medinensis* ♂ Nav.

The syntype was relaxed and placed in an envelope and sent to L.K. Gloyd in the 1930's. Comparison of this male with a syntype of *A. gerhardi* Calvert 1909 shows that *A. medinensis* is a junior synonym of *A. gerhardi*. RWG examined this specimen and agrees with previous notes by L.K. Gloyd, confirming their synonymy. Currently considered a junior synonym of *Argia gerhardi* Calvert, 1909. **Syn. Nov.**

minusculum Morse (*Enallagma*), 1895a:207. 1 syntype ♂. Sherborn, Mass./July 16, 1894 [printed]; *Enallagma/minusculum/Morse/Type Dec 1894* [label A. Morse]; *Type/4/47* [red labels with hand written numbers by N. Banks].

No type was designated in the original description, based on 7 ♂♂.

minutum Leonard (*Acanthagrion*) 1977:114, Figs 130, 135, 136. Holotype ♂. VENEZUELA/J.H. and E.B. Williamson/W.H. Ditzler/Nirgua/Yaracuy/21/Feb. 27, 1920 [stamped]/Type sp. "O"/*minutum* n. sp. (all in J.W. Leonard's hand).

obsoletum Förster (*Myagrion*), 1914:69. Holotype ♂. Ob[ere]. Madre de Dios/Peru 500 m [in ink], *Myagrion* [in pencil] [labels F. Förster].

Currently known as *Acanthagrion obsoletum* (Förster, 1914).

peruvianum Leonard (*Acanthagrion*), 1977:114, Figs 129, 133, 134. Holotype ♂. PERU/CAMPAMIENTO/COLONIA DEL PERENE/J.H. Williamson/JUN 10 1920 [stamped]/penis extruded 2/3/34/Peru 2/peruviana/TYPER/(with penis ext.) (all in Leonard's hand).

phallicornis Leonard (*Acanthagrion*), 1977:53, Figs 82, 87, 88. Holotype ♂. Brazil/State of Amazonas/Porto Velho/J.H.W[illiamson]. & J.W. Strohm./Feb 20, 1922 [stamped]/2[circled], "J," "38" /Type ♂ (all in J.W. Leonard's hand).

The specific epithet should be changed to *phallicorne* to agree in gender with the generic name (ICZN, 1999 Art. 30.1).

pipila Calvert (*Argia*), 1907:373, Pl. 10, Figs 16, 16s. Holotype ♂. Esquintla, Guatemala/January 31, 1905/E.B. Williamson [label L.K. Gloyd] and ARGIA PIPILA Calvert ♂/P.P. Calvert, det. 1907/B.C.A. Neur., p. 373/TYPER/Original of Pl. X, ff. 16, 16s [handwritten last line by P.P. Calvert].

pocomana Calvert (*Argia*), 1907:375, Pl. 10, Figs 1s, 15s. Holotype ♂. Mazatenango/Guatemala/February 3, 1905/E.B. Williamson [label L.K. Gloyd]; ARGIA/pocomana Calv. ♂/P.P. Calvert, det. 1907/TYPER/B.C.A. Neur., p. 376/Original of Pl. X, ff. 15, 15S [label P.P. Calvert]. On the female specimen, the label is the same except for the det.: ARGIA/pocomana Calv. ♀/P.P. Calvert, det. 1907 B.C.A. Neur., p. 376/Original of Pl. X, f. 24/over; in cop. with type ♂.

pontogenes Ris (*Pseudagrion*), 1915:140. Lectotype ♂ designated by Pinhey (1962:130). Africa/Mayotte, Comoro Islands/May 8, 1911/G.F. Leigh; *Pseudagrion pontogenes*/Ris/Type ♂ [labels L.K. Gloyd]. Original labels cut from envelope read: (1) Mayotte/8/5/11/G.F.L. (2) *Pseudagrion* n.sp. ♂ (3) *pontogenes*/Type [all in Ris' hand].

positum Hagen (*Agrion*), 1861:77. 1 ♂, 1 ♀ syntypes. ♂: Savannah [undecipherable letter]/O. Sacken 1854 [label H. Hagen]; A [label unknown hand]; Hagen [label printed]; Type/3/12287 [red labels with hand written numbers by N. Banks]; ♀: Washington/O. Sacken 1854 [label H. Hagen]; Hagen [label printed]; Type/12/12287 [red labels with hand written numbers by N. Banks].

No type was designated in the original description, based on an unspecified number of specimens. Currently known as *Ischnura posita* (Hagen, 1861). According to J. van Tol, a syntype is in the Naturhistorisches Museum Wien.

raineyi Williamson (*Telagrion*), 1915:613, Figs a-c (pg. 614). Holotype ♂. Cumuto, Trinidad/March 10, 1912/L.H. and E.B. Williamson and

B.J. Rainey and *Telagrion raineyi*/Williamson/TYPE-Orig. Figs a, b, c. p. 614/Proc. US. Nat. Mus. v. 48 1915/Det. by E.B. Williamson 1930 [label L.K. Gloyd]. An accessory label in the box written in pencil by Williamson states: *Telagrion raineyi*/Trinidad/Type σ .

Currently known as *Leptobasis raineyi* (Williamson, 1915).

risi Leonard (*Acanthagrion*), 1977:69, Figs 94, 99, 100. Holotype σ . VENEZUELA: 1 σ /Tachira: Tachira/J.H. & E.B. Williamson/and W.H. Ditzler/April 10, 1920/Acanth. risi type σ /(sp. F.)/penis checked (all in J.W. Leonard's hand).

Currently considered a synonym of *Acanthagrion vidua* Selys, 1876.

rubricauda Bick & Bick (*Telebasis*), 1995:36, Fig. 3. Holotype σ , Allotype φ : Brazil: Matto Grosso State [actually Rondonia State], MAR 14, 1922, J.H. Williamson & J.W. Strohm. Envelope states "in copula." (The authors erroneously list Strohm as J.H. Strohm). The abdomen of each specimen is broken midway. The triangle reads: 66. Brazil, Matto Grosso, Abuna'. J.W. Strohm & J.H. Williamson, March 14, 1922. Pair in cop. Color notes inside. Swamp. 66 [all in pencil].

[*rubrifrons* Leonard (*Acanthagrion*), 1977:25, Figs 57, 61, 62. Holotype σ . Brazil/State of Pará/Belem/J.H.W[illiamson]. & J.W.S[trohm]./AUG- 8 1922 [stamped].

RWG was able to discover only the female allotype labeled by Leonard as allotype; he was unable to locate the holotype.]

runtuni Kennedy (*Protallagma*), 1939c:177. Holotype σ . Ecuador: Prov. Tungurahua/Runtún, Baños/July 4, 1935/W. Clarke-MacIntyre; Protallagma/runtuni Kennedy/Type σ [labels by C.H. Kennedy or E.J. Kormondy]. Accessory labels by MacIntyre read: Baños/Runtún/Wm. C. Mack/Collector [stamped]; Holotype [in C.H. Kennedy's hand] Jul 4 1935 [stamped].

Currently considered a synonym of *Oxyallagma dissidens* (Selys, 1976).

schoana Förster (*Ischnura* (*Micronympha*)), 1906b:332. Lectotype designated by Pinhey 1962:134. Adis Abeba/Oct. 1900; Exped Carlo/von Erlanger/Adis Abeba/Abessinia/1900 σ , *Ischnura*/schoana Förster/Type σ [labels F. Förster], *Enallagma subfurcatum* [pencil, written in an unknown hand].

No type was designated in the original description, based on 2 males and one female. Currently considered a synonym of *Enallagma subfurcatum* Selys, 1876.

semicolon (Förster) (*Pseudagrion*), 1896b: 325 (2 reprint). 2 $\sigma\sigma$, 2 $\varphi\varphi$ syntypes. σ : Máros Wasserfall/Mangkasser/2. VI. 1878/

Süd- Celebes; σ juv. type/Pseudagrion/semicolon/Förster. σ : Kalibánkere/Mangkasser σ 5 -VI- 78; σ adult. type/Pseudagrion/semicolon/Förster. φ : Máros Wasser-/fall, Mangkasser/Celebes 6.VI.78/Schlul. vdt.; Pseudagrion/semicolon φ type Förster. φ : Máros Wasserfall/Mangkasser, Celebes/28-VI.78/Schlul. vdt.; Pseudagrion/semicolon Förster/type φ [labels F. Förster].

Originally described from 1 σ , 2 φ of which the other φ is stated to be in the Selys collection, Institut Royale des Sciences Naturelles de Belgique, Brussels. The σ lacks the head. Currently considered a synonym of *Pseudagrion crocops* Selys, 1876.

sikorae Förster (*Pseudagrion*), 1906c:59. Holotype σ . Insel/Bourbon [?]/P. Sikora; Reunion/10.2-1901/P. sikora coll./Prep. in Formol & Rhum/Formol 20 gr./H₂O 500 gr/nach Sikora in/Leben lichtblau/[undecipherable]; Pseudagrion σ /sikorae n. sp./Type Förster. Enallagma/sikorae F[örster]; Type/E. Schultzei Ris [labels F. Förster].

Currently considered a synonym of *Enallagma glaucum* (Burmeister, 1839).

sjoestedti Förster (*Pseudagrion*), 1906c:62. Holotype σ . Bipindi/Plantation Kamerun/Zoologische/Botanische/Station/Rolle vdt. 1903, Pseudagrion/sjoestedti n. sp. [labels F. Förster].

The head and right wings are in an envelope pinned beneath the holotype. Abdominal segments 6-10 are missing. The description was based on only one male [Ein einziges σ in meiner Sammlung ...], and Pinhey (1962:128) wrote the following: "Type σ (damaged) in Ann Arbor (Kormondy); but Basilewsky mentions a type in Mus. C. B. [Musée de l'Afrique Centrale]. As a Foerster species, the Ann Arbor specimen is almost certainly the true type." Although the specific epithet was originally spelled as *sjöstedti* it should be changed to *sjoestedti*.

sordida Hagen in Selys (*Argia*), 1865:387 (15 reprint). 2 $\sigma\sigma$, 1 φ syntypes. Neu Friburg/Rio Besehn [label H. Hagen]; Hagen [label printed]; Type/7, 17, 25/12172 [red labels with hand written numbers by N. Banks].

No type was designated in the original description, based on an unspecified number of specimens.

strohmi Williamson & Williamson (*Acanthallagma*), 1924b:9, Fig. 11. Holotype σ . Brazil/Abuna, Matto Grosso/March 10, 1922, J.H. Williamson & J.W. Strohman /60; Acanthallagma strohmi/E.B. & J.H. Williamson/TYPER-Orig. Figs 9-10, Pl. I/Occ. pap. Mus. Zool. Univ. Mich. No. 154/Det. by E.B. Williamson/1924 [labels by L.K. Gloyd].

An accessory label by E.B. Williamson: *Acanthallagma/strohmi*/
Type/Coll. E.B. Williamson.

sulcatum Williamson (*Enallagma*), 1922b: 114, Figs 1-4. Holotype ♂.
Enterprise, Florida/April 26, 1921/10/J.H. Williamson; *Enallagma*
sulcatum/Williamson/TYPE-Orig. Figs 1-4, Pl. VI/Ent. News
No. XXXIII 1922 Det. by E.B. Williamson [label L.K. Gloyd]. An
accessory label in the box written in pencil by Williamson states: *En.*
sulcatum/Enterprise Fla, J.H.W. 10 [circled]/4/26/21/TYPE/Coll.
E.B.Williamson.

ternaria Navás (*Argia*), 1934a:142. Syntype ♂. *Argia*/*ternaria*
Nav./P. Navás S.J. det.; Quetama/(Colombia)/XII-12 [handwritten
in green label]; *Argia*/*ternaria*/gift of P. Navás 1935/=*Enallagma*
[handwritten with pencil].

Currently considered a junior synonym of *Cyanallagma laterale*
(Selys, 1876).

[*trilobatum* Leonard (*Acanthagrion*), 1977:114, Figs 106, 111, 112.
Holotype ♂. Rio Frio [written in pencil by E.B. Williamson]/
COLOMBIA/J.H. & E.B.Williamson/JAN 4-1917 [stamped].

RWG was able to discover only the allotype female labeled by
Leonard ("TYPE ♀"); he was unable to locate the holotype.]

tuberculata Santos (*Leptobasis*), 1961b:171, Figs 2, 3, 5, 7 (previously
labeled as ♀.) Holotype ♂. Brazil/State of Amazonas/Porto Velho/
J.H.W[illiamson]. & J.W.S[trohm]./Jan. 29, 1922/"18"/P[rivate].
C[ollection]./[written in pencil by E.B. Williamson]. *Leptobasis*
♂/sp. #2; *Leptobasis* ♂ *tuberculata*/N. Dias dos Santos 1961;
HOLOTIPO [red label].

Currently considered a synonym of *Leptobasis inversa* (Selys, 1876).

variata Navás (*Argia*), 1935:34. Syntype ♂. Tipo[handwritten in pink
label]; Muro(Col.)/VII-18; *Argia*/*variata* Nav./P. Navás S.J. det.
[handwritten in green label].

RWG, in his study of South American species of the genus *Argia*
has examined two syntype males, one in the Musée Natural Histoire
Paris, the other from this collection. The MNHP male is missing
the posterior abdominal segments. It is the same as the male in
the UMMZ, which is complete. Examination of both shows that *A.*
variata is a *bona fide* species in the *gerhardi*/*nigrior* group.

variegata Förster (*Argia*), 1914:65. 7 ♂♂, 3 ♀♀ syntypes? 1 ♂. M/6
IV/Odon [in pencil in unknown hand], *Argia* spec, N. 18/*variegata*
[written in ink by Förster]; 1 ♂, 1 ♀. same data but M. 10/IV; 5 ♂♂, 1 ♀.
same data but M/13. IV./[18]99; 1 ♀. same data but M/26. IV.

The original description cites 3 males and 2 females from Ecuador ("Coll. Häntzsch mit der Signatur M. 10 April".... "in coll. m."). Years ago, Leonora K. Gloyd isolated the above specimens from the Förster collection with the following comments: "Argia variegata Types?...1 ♂, 1 ♀ have Apr. 10, others have other dates: Nevertheless these are probably the type specimens." The ♂ and ♀ with the date "10/IV" agree well with the measurements given by Förster ("17 Postnodalqueredern" for ♂ includes postnodal crossveins before and after pterostigma) and are likely syntypes. The other specimens may not be part of the type series but we have included them in the type collection pending further study.

vernale Gloyd (*Enallagma*), 1943:1, Pl. 1, Figs 1, 3-5. Holotype ♂. Schoolcraft Co., Seney Refuge, 4 mi N./of Germfask/June 1, 1938 P. Brodkorb; *Enallagma vernale* Gloyd/Type ♂.

Currently known as *Enallagma cyathigerum vernale* (Gloyd, 1943).

viridescens Leonard (*Acanthagrion*), 1977: 98, Figs 117, 121, 122. Holotype ♂. BRAZIL:/State of Amazonas/Porto Velho/J.H.W[illiamson]. & J.W.S[trohman]./APR 26 1922 [stamped]/Penis of ♂ extruded/1/18/34/♀122/TYPE ♂ & ♀ of [species] E/P[rivate]. C[ollection]./viridescens (all in J.W. Leonard's hand).

watsoni Bick and Bick (*Telebasis*), 1995:40-41, Fig. 25. Holotype ♂. Peru, Huanuco Dept., Shapajilla, July 11, 1938, 630 m, F. Woytkowski, leg.

The holotype has the abdomen broken.

westfalli Cumming (*Metaleptobasis*), 1954:25. Holotype ♂. PANAMA: Barro Colorado Isl./small pond at No. 5 on/Standley trail VII-22-1950/R.B. Cumming-50 and *Metaleptobasis/westfalli* Cumming/Holotype ♂ [2 pinned labels by E.J. Kormondy?].

williamsoni Leonard (*Acanthagrion*), 1977:66, Figs 95, 101, 102. Holotype ♂. COLOMBIA: Mariquita/J.H. & E.B. Williamson/loc. ♀23/Feb. 4, 1917 (Sp. S)/*Acanth. williamsoni* n. sp./Type ♂ (all in J.W. Leonard's hand).

Aeshnidae

absoluta Calvert (spp. *Aeshna* (*Neureclipsa*) *diffinis*), 1952:288. Holotype ♂. Vicinity of Concepcion/Peru/April 7-8, 1935/Felix Woytkowski.

Several penciled notes by Calvert, concerning measurements and drawings accompany both specimens. Currently known as *Rhionaeschna absoluta* (Calvert, 1952).

amata Förster (*Jagoria*), 1903b:245 (1-2 reprint). Holotype ♂. Brunei/Nord Borneo/Dr. O. Staudinger; *Jagoria/amata* Foerster/Type ♂ [labels F. Förster].

Currently known as *Oligoaeschna amata* (Förster, 1903).

antarcticum Förster (*Limnetron*), 1907:163. Holotype ♂. SAPUCAY/PARAGUAY/12.2.05 [stamped in blue]; *Limnetron* Förster/*antarcticum*/♂ Type [label F. Förster].

The holotype is teneral, has been skewered, and lacks the caudal appendages. There is a larger female labeled in Förster's hand: Rio Pratt Ial[?]/25-II.1911 ♀/St. Catharina/Brasil, and *Limnetron* ♀ type/*antarcticum*/Foerster, which we consider a pseudotype.

aratrix Förster (*Selysiophlebia*), 1905a:75 (2 reprint). Holotype ♂. Costa Aquaray/Inner-Paraguay/ Stichel vdt. 1897; *Selysiophlebia* ♂/*aratrix* Foerster/Type [labels F. Förster].

Originally described from two males; the paratype (indicated as "cotype" by Förster) is stated to be in the Selys collection, Institut Royale des Sciences Naturelles de Belgique, Brussels. Currently considered a synonym of *Gynacantha cheliferae* McLachlan, 1895.

auca Kennedy (*Staurophlebia*), 1937b:425, Figs 1-4. Holotype ♂. Ecuador: Oriente (Prov. Santiago-Zamora) Quebrada on the Sapallo-Yacu, branch of the Rio Napo, 800 m., March, 1937, W. Clarke-MacIntyre.

biliosa Kennedy (*Aeshna*), 1938b:573, Figs 1, 4, 6, 7. Holotype ♂. Ecuador: Tungurahua/La Ventana [near Baños]/Rio Pastaza Watershed/May 1936, 2000 m/W. Clarke-MacIntyre; *Aeshna/biliosa* Kennedy/Type/♂/[labels C.H. Kennedy or E.J. Kormondy].

The left rear leg and part of the left cercus are broken and have been placed in a separate envelope. Currently known as *Rhionaeschna biliosa* (Kennedy, 1938).

buehri Förster (*Jagoria*), 1903b:246 (2 reprint). Holotype ♂. Brunei/N. Borneo/Dr. O. Staudinger; *Jagoria* ♂/*Bühri* Foerster/Type [labels F. Förster].

The specific name was spelled "Bühri" in the original description. Currently known as *Oligoaeschna buehri* (Förster, 1903).

caribbea Williamson (*Triacanthagyna*), 1923b:22, Pl. 4, Fig. 18; Pl. 5, Fig. 23. Holotype ♂. Venezuela: Palma Sola, Falcón, March 6, 1920, J.H. and E.B. Williamson and W.H. Ditzler.

ditzleri Williamson (*Triacanthagyna*), 1923b:19, Pl. 4, Fig. 17; Pl. 5, Fig. 22. Holotype ♂. Venezuela: La Fria, Táchira, Apr. 17, 1920, J.H. and E.B. Williamson and W.H. Ditzler.

elsia Calvert (*Aeshna* (*Neureclipta*)), 1952:260. Holotype ♂. Vicinity of Pacasmayo/Peru/May 20, 1936/Felix Woytkowski.

Several penciled notes by Calvert concerning drawings accompany the pair. Currently known as *Rhionaeschna elsia* (Calvert, 1952).

grafiana Williamson (*Boyeria*), 1907a:1. Holotype ♂. Canada: Ontario/Searchmont/Aug. 6, 1906/E.B. Williamson.

grubaueri Förster (*Amphiaeschna*), 1904:355 (1 sep.). Holotype ♂. Camp Jor/Wasserscheide/zw[ischen] Pahang/u[nd] Perak/Inner Malakka/Albert Grubauer/1901. 2000 m. [*sic!*]; *Amphiaeschna* ♂/*grubaueri* Foerster/Type [labels F. Förster].

Currently known as *Indaeschna grubaueri* (Förster, 1904).

guatemalteca Walker (ssp. of *Staurophlebia reticulata*), 1915:391. Holotype ♂. Guatemala: Los Amates, June 31, 1909, E.B. Williamson.

helenga Williamson & Williamson (*Gynacantha*), 1930:1. Holotype ♂. Mexico: Jalisco/Hacienda de San Marcos near Villegas/Nov. 23, 1923/J.H. Williamson.

interioris Williamson (*Gynacantha*), 1923b:46, Pl. 7, Fig. 45. Holotype ♂. Peru: Campamiento/Colonia del Perené/June 5, 1920/J.H. Williamson.

jessei Williamson (*Gynacantha*), 1923b:33, Pl. 6, Fig. 34. Holotype ♂. Colombia: Dept. Antioquia: Puerto Berrio, Jan. 31, 1917, Jesse H. Williamson.

litoralis Williamson (*Gynacantha*), 1923b:44, Pl. 7, Fig. 44. Holotype ♂. Paramaribo, Dutch Guiana/Feb. 22, 1912/L.A. & E.B. Williamson & B.J. Rainey.

The hind wing tips have been mended with glue and small strips of clear tape.

maclachlani Förster (*Anax*), 1898a:290, Pl. 13, Figs 1, 2. Lectotype ♂. Konstantin-/hafen, Kaiser-/Wilhelmsland/Wahnes leg. 1894; *Anax/Maclachlani/Foerster/Type/♂* [undecipherable]/A. Maclach. = *A. panybeus* Hagen rasse MacLach [labels F. Förster].

Originally described from 2 males. We consider the statement by Kennedy (1934:356): "Drawn from the type in the Zoological Museum of the University of Michigan," as equivalent to a lectotype designation. The lectotype is missing the tip of the right hind wing.

manni Williamson & Williamson (*Aeshna*), 1930:26. Holotype ♂. Mexico: Baja California: Los Parres [correct spelling Las Parras], Oct. 6, 1923, J.H. Williamson.

Currently known as *Rhionaeschna manni* (Williamson & Williamson,

1930).

mayoruna Belle (*Neuraeschna*), 1989:272, Figs 13, 22, 29. Holotype ♀. PERU: Iquitos, Mishuyacu, 29 July 1931, from Paul Nagel.

Jean Belle has erroneously labeled the holotype a ♂.

mina Williamson & Williamson (*Neuraeschna*), 1930:9, Fig. 1. Holotype ♂. Brazil: Amazonas State: Porto Velho, 1 Feb. 1922, J.H. Williamson and J.W. Williamson.

Part of the head and anterior synthorax have been eaten away by dermestids.

mocsaryi Förster (*Gynacantha*), 1898a:292. 2 ♂♂, 1 ♀ syntypes. Syntype ♂, N. Guinea/Biro 96; Erima/Astrolabe B. [both labels printed]; Type/Gynacantha ♂/mocsaryi Foerster; syntype ♂, Erima/Astrolabe B. [printed]; Gynacantha ♂/mocsaryi Foerster/Type; syntype ♀ Urwalde b. d. Papua/Dörfchen Bongu ♀/Carl Wahnes/Astrolabebai 1896; Gynacantha ♀/Mocsaryi Foerster/Type.

Originally described from 9 ♂♂ and 3 ♀♀ "im ungarischen Nationalmuseum." At the UMMZ collection there are 2 ♂♂ and 1 ♀ with Förster type labels, and another 2 ♂♂ and 3 ♀♀ without type labels which, according to their locality labels, could also belong to the type series.

obscura Walker (ssp. of *Staurophlebia reticulata*), 1915:391. 4 ♂♂, 1 ♀ syntypes. Trinidad: Baracon, Chaguanas, March 7, 1912, E.B. Williamson.

Walker briefly described this subspecies based on 6 ♂♂, 2 ♀♀ but did not designate a holotype.

rufipennis Kennedy (*Aeshna*), 1941a:397, Figs 1-5. Holotype ♂. Peru: Satipo/Dec. 27, 1940/P. Paprzycki; *Aeshna rufipennis* Kenedy/Type ♂ [labels C.H. Kennedy or E.J. Kormondy].

Currently known as *Remartinia rufipennis* (Kennedy, 1941).

selysii Förster (*Anax*), 1900a:88. Lectotype ♂. Gegagalu/(Sattelberg)/Simbang/ D. Neuguinea/W. Wahnes /1-5.1899; *Anax selysi* Foerster/Type ♂ [labels F. Förster].

Originally described from 3 ♂♂ and 1 ♀, from which there are 1 ♂ and 1 ♀ in the UMMZ. We consider Kennedy's statement (1934:356): "Drawn from the types in the Zoological Museum of the University of Michigan" as equivalent to a lectotype designation. In the original description, Förster illustrated the accessory genitalia of 1 ♂, and the caudal appendages of one ♂ and the ♀. The lectotype does not show any sign of having the penis extruded, thus, Figs 1 and 2 correspond probably to one of the paralectotype males, which Förster states are

in the Hungarian National Museum.

severini Förster (*Dromaeschna*), 1908a:191. Holotype ♂. Baronfluss/ bei Cairns/Nord. Queensland/Emil Weiske and *Dromaeschna/severini* Förster/♂ Type [labels F. Förster].

Currently considered a synonym of *Austroaeschna forcipata* (Tillyard, 1907).

sumatrana Förster (ssp. of *Tetracanthagyna waterhousei*), 1914: 83. Holotype ♀. Padang/Padjang/Sumatra; *Tetracanthagyna/waterhousei/sumatrana* F. ♀/ Type [labels F. Förster].

umbrosa occidentalis Walker (*Aeshna*), 1912:174. Holotype ♂. Oregon: New Bridge, Sept. 15, 1909, C.H. Kennedy.

In the original description, Walker stated "Type ♂, Bluffton Public Museum- New Bridge, Oregon" no further data. The written type label data for the holotype ♂ is in L.K. Gloyd's hand.

usambarica Förster (*Aeshna*), 1906c:71 (48 sep.). Lectotype ♂ designated by Kormondy and Gloyd in Pinhey (1962:191). ♂/ Nguelo/ *Aeshna*/[undecipherable]/*usambarica* Foerster/Usambar; Nguelo/Cotype [labels F. Förster].

Currently known as *Aeshna elliotti usambarica* Förster, 1906.

venatrix Förster (*Jagoria*), 1903b:246 (2 reprint). 1 ♂ syntype. Insel Buton/ südl. Celebes ♂/Rolle vdt 1903; *Jagoria* ♂/*venatrix* Foerster/ Type [labels F. Förster].

Described from an unspecified number of males. Currently known as *Oligoaeschna venatrix* (Förster, 1903).

weiskei Förster (*Dromaeschna*), 1908a:192. Lectotype ♂ designated by Theischinger 1982:33. Baronfluss/b[ei]. Cairns/Nord. Queensland/land/Emil Weiske; *Weiskei* [labels F. Förster]; Lectotype ♂/*Austroaeschna weiskei*/(Förster, 1908)/design. G. Theischinger 1978 [red label].

Female paralectotype with similar labels. Currently known as *Austroaeschna weiskei* (Förster, 1908).

williamsoniana Calvert (*Aeshna*), 1905:185, Pl. 8, Figs 13, 14, 19. Holotype ♂. Mexico: Cuernavaca, July 8, 1900, C.C. Deam.

Gomphidae

abbreviatus Belle (*Progomphus*), 1973:272, Figs 228-235. Holotype ♂. Colombia, Cauca.

The holotype is a crushed teneral ♂ with some distortion of abdominal segments and posterior wing margins. Belle cites "Canca" in error for the type locality.

aculeus Belle (*Phyllogomphoides*), 1982b:5, Figs 5-10. Holotype ♂. Peru: Iquitos, Sept. 1939, G.G. Klug.

alachuensis Byers (*Progomphus*), 1940:50. Holotype ♂. Florida: Alachua Co.: Newman's Lake, May 18, 1930, C.F. Byers, No. 17.

The holotype is broken between the 3rd and 4th abdominal segments.

angularis Belle (*Phyllogomphoides*), 1982b:8, Figs 11-16. Holotype ♂. Brazil: State of Amazonas, Porto Velho, 5 May 1922, J.H. Williamson & J.W. Strohm.

anomalus Harvey (*Ophiogomphus*), 1898:60. Holotype ♂. Maine: Orono, border of woods, June 15, 1892, F.L. Harvey.

The holotype is lacking the right fore- and left hind wing, and the tips of the remaining wings.

anomalus Belle (*Progomphus*), 1973:269, Figs 212-215, 217-218, 225. Holotype ♂. Ecuador, Oriente Prov., Rio Pastaza Watershed, Abitagua, 1000 m., 28 Oct. 1936. W. Clarke- MacIntyre.

apiculatus Cook and González (*Phyllogomphoides*), 1990:265, Figs 1-7. Holotype ♂. Mexico, State of Nayarit, Acaponela, 2 Nov. 1923, J.H. Williamson.

arboreus Lieftinck (*Burmagomphus*), 1940:111. Lectotype ♂ selected by Lieftinck (1964:18). Borneo, R.A. Earnshaw.

An inked note by M.A. Lieftinck states: "This is the type of *Burmagomphus earnshawi* Williamson [ms.], *Burmagomphus williamsoni* Fraser [1926], nec Förster [1914]."

bitarsatus Förster (*Mesogomphus*), 1906b:325. Holotype ♀. Salakle 6/VI 01/ am [undecipherable word; possibly Akazienwald] [and on reverse side] *Mesogomphus bitarsatus* [label by F. Förster]; *Mesogomphus/bitarsatus* ♀/Type (C.H.K.) [label by C.H. Kennedy].

Currently considered a synonym of *Paragomphus genei* (Selys, 1841).

camelus Martin (*Onychogomphus*), 1904:212 (9 reprint). 1 ♂ syntype. Than Moi/Tonkin ♂/H. Fruhstorfer; *Onychogomphus biforceps* Selys ♂/Rasse O. *camelus*/Cotype R. Martin [labels by F. Förster].

Described from at least 1 ♂ and 1 ♀. Martin (1904) provides a brief description of the ♂, comparing it in tabular form to *O. biforceps*, and also mentions some ♀ features. The type locality is given as Annam and Tonkin and no type repository is given. The brief measurement statistics of the type given by Martin tally with the specimen in the UMMZ. In the library of the UMMZ, there is a copy of the Martin

paper, ex. C.H. Kennedy library, which appears to have notations in Förster's hand. Beside the description of *O. camelus*, Förster has written "T ♂♂ Than Moi." Currently known as *Lamellogomphus camelus* (Martin, 1904).

capricornis Förster (*Onychogomphus*), 1914:79. Holotype ♂. Camp Jor. [and on reverse side:] O./Capri/cornis [label by F. Förster]; *Onychogomphus* [pencil, in an unknown hand]; possibly a type/C.H.K. [label by C.H. Kennedy].

Currently known as *Paragomphus capricornis* (Förster, 1914).

coluber Williamson & Williamson (*Erpetogomphus*), 1930:14, Pl. 1, Figs 4, 5, 10. Holotype ♂. Mexico: Baja California, San Jose de Comandu, Oct. 10, 1923, J.H. Williamson.

Currently considered a synonym of *Erpetogomphus compositus* Hagen in Selys, 1858.

conchinus Williamson (*Cyanogomphus*), 1916b:168, Pl. 8, Figs 1, 6-11. Holotype ♂. British Guiana: Wismar, Jan. 31, 1912, L.A. and E.B. Williamson and B.J. Rainey.

crepidus Kennedy (*Epigomphus*), 1936b:126, Figs 1-3, 21. Holotype ♂. Mexico: Nayarit, Victoria Compostela, Albert E. Maas, July 1934 (Ward's Nat. Sci. Estab.).

dendrohyrax Förster (*Podogomphus*), 1906b:326. Holotype ♀. Bergland/von Usambara/Nguelo [label by F. Förster]; *Podogomphus/dendrohyrax* ♀/Type Förster [label by F. Förster]; R. Cammaerts, vid. 1978/*Notogomphus dendrohyrax*/Förster/holotype ♀ [label by R. Cammaerts].

Currently known as *Notogomphus dendrohyrax* (Förster, 1906).

densus Belle (*Archaeogomphus*), 1982a:45, Figs 27-30. Holotype ♂. Brazil: Santa Catarina State, Nova Teutonia, 3 Jan. 1941, Fritz Plaumann.

The head and abdominal segments 5-10 are broken and have been placed in small triangles with the holotype.

dorsopallidus Byers (*Progomphus*), 1934:1. Holotype ♂. Venezuela: San Esteban, Carabobo, Feb. 6, 1920, J.H. and E.B. Williamson and W.H. Ditzler, No. 66.

elaphe Garrison (*Erpetogomphus*), 1994b:205-207, Fig. 11. Holotype ♂. Guatemala: Dept. Guatemala: El Fiscal, 6 June 1909, E.B. Williamson.

falcatus Gloyd (*Stylurus*), 1944a:1, Pl. 1, Figs 1-6. Holotype ♂. Mexico: Michoacán, Cojumatlán, Sept. 9, 1938, L.J. Lipovsky.

formalis Belle (*Progomphus*), 1973:262, Figs 189-192. Holotype ♂. Ecuador, Napo-Pastaza Prov., Jatun Yacu 700 m., 12 April 1935, W. Clarke-MacIntyre.

furcatus Williamson (*Archaeogomphus*), 1923a:2, Pl. 1, Figs 1-3. Holotype ♂. Venezuela: Bejuma, Carabobo, Feb. 18, 1920, J.H. and E.B. Williamson and W.H. Ditzler.

gibberosus Belle (*Epigomphus*), 1988:138, Figs 7-10. Holotype ♂. Peru: Dept. San Martin, vicinity of Rioja, Soritor, 900 m. 15 Oct. 1936, Felix Woytkowski.

hamatus Williamson (*Agriogomphus*), 1918b:4, Pl. 1, Figs 1-6. Holotype ♂. Colombia: Dept. Magdalena, Fundacion, 10 Jun. 1917, J.H. & E.B. Williamson.

Currently known as *Archaeogomphus hamatus* (Williamson, 1918).

hartmanni Förster (*Onychogomphus*), 1898b:166. Holotype ♂. Komatiport/Transvaal/20-12-1897/Karl Kartmann lgt.; *Onychogomphus/Hartmanni Foerst./Type* ♂ [and on reverse side] *Crenigomphus/DeSelys/hartmanni/Type* Förster [labels F. Förster].

Currently known as *Crenigomphus hartmanni* (Förster, 1898).

incurvatus Belle (*Progomphus*), 1973:278, Figs 253-257. Holotype ♂. Peru: Dept. Lima, vicinity of San Pedro, 900 m., 15-18 May 1935, Felix Woytkowski.

ivae Williamson (*Stylurus*), 1932:12. Holotype ♂. Georgia: Burke Co.: Keysville, Brier Creek, Oct. 2, 1931, E.B. Williamson, *et al.*

javanica Förster (*Gomphidia*), 1899a:66. Holotype ♂. Malang/Ost-Java/Gullak 1897/Dr. A. Pagenstecher dt.; *Gomphidia ♂/javanica Foerster/Type* [labels by F. Förster].

jessei Williamson (*Ischnogomphus*), 1918a:10, Pl. 1, Fig. 1; Pl. 2, Figs 5-8. Holotype ♂. Colombia: Dept. Antioquia; Cristalina, Feb. 18, 1917, J.H. and E.B. Williamson.

Currently known as *Agriogomphus jessei* (Williamson, 1918).

laurae Williamson (*Stylurus*), 1932:3. Holotype ♂. South Carolina: Greenville Co.: North Saluda River, Oct. 5, 1931, E.B. Williamson *et al.*

natrix Williamson & Williamson (*Erpetogomphus*), 1930:19, Pl. 1, Figs 6-8. Holotype ♂. Mexico: Baja California, Purissima, Oct. 12, 1923, J.H. Williamson.

Currently considered a subspecies of *E. lampropeltis* Kennedy, 1918.

naninus Förster (*Heterogomphus*), 1905b:19. Holotype ♂. Than Moi/Tonkin ♂/Fruhstorfer; *Heterogomphus/naninus* Foerster/Type ♂ [labels by F. Förster].

Chao (1990:342) listed *Heterogomphus naninus* as a synonym of *Onychogomphus* (now *Orientogomphus*) *circularis* Selys, 1894, apparently based on the sentence by Asahina (1986:24): "This [*circularis*] is a Burmese insect, but if *O. nanius* [Sic!] Foerster (1905) is synonymous with *circularis* the range of the latter species reaches Tonkin." This was only a supposition, not a taxonomic decision. Pending comparison of the types of *naninus* and *circularis* we prefer to recognize them as separate species.

nguelicus Förster (*Mesogomphus*), 1906b:323. Holotype ♀. Nguelo ♀/Usambara/Ost Kuste von/Africa/Rolle vdt. [label by F. Förster]; *Mesogomphus/nguelicus* ♀/Type (C.H.K.) [label by C.H. Kennedy].

Currently considered a synonym of *Paragomphus cognatus* (Rambur, 1842.)

oklahomensis Pritchard (*Gomphus*), 1935:1, Pl. 1, Figs 5-7. Holotype ♂. Oklahoma: Willburton, Fourche Maline Creek, April 28, 1934, A.E. Pritchard.

praedatrix Belle (*Phyllogomphoides*), 1982b:3, Figs 1-4. Holotype ♀. Brazil, State of Matto Grosso, Abuná, J.W. Strohm.

perditus Förster (*Ammogomphus*), 1914:73. Holotype ♂. SAPUCAY/PARAGUAY/21.2.05 [stamped in blue ink]; *Ammogomphus/♂* n.g. Type/ *perditus* n. sp. [label F. Förster].

Currently known as *Gomphoides perditus* (Förster, 1914).

risi Williamson (*Progomphus*), 1920a:3, Pl. 3, Figs 8-10. Holotype ♂. Guatemala: Dept. Zacapa: Gualan, June 16, 1909, E.B. Williamson.

The right pair of wings of the holotype is missing.

rivularis Förster (*Macrogomphus*), 1914:80. Holotype ♂. Than Moi/Tonkin/ H. Fruhstorfer; *R. rivularis/M. rivularis* ♂/Type [and on reverse side] *Macrogomphus/annulatus* Selys ♂/ *Rasse-tonkinianus* Foerster [labels by F. Förster].

rogersi Gloyd (*Gomphus*), 1936:1, Pl. 1, Figs 1-6. Holotype ♂. Tennessee: Fentress Co., Long Creek, June 18, 1924, J.S. Rogers.

Currently known as *Gomphus rogersi* Gloyd, 1936.

sabaleticus Williamson (*Erpetogomphus*), 1918a:1, Pl. 1, Fig. 3; Pl. 2, Figs 9-11. Holotype ♂. Colombia: Dept. Antioquia, Cristalina, Feb. 19, 1917, J.H. and E.B. Williamson.

semiteres Förster (*Gomphus* [*Malayogomphus*]), 1914:77-78. 1 ♂ syntype. Pelabuan/Baai/S.W. Java/W. Cyrashoff; *Gomphus* Type

♂/semiteres F. [labels by F. Förster]. 2 ♀♀ Syntypes. Same data but "1912." The male has the following added label: Museum Leiden/Leptogomphus/lansbergei Selys/det. J. van Tol, 1990.

Currently considered a synonym of *Leptogomphus lansbergei* (Selys, 1878).

subapicalis Williamson (*Gomphus*), 1914:54, Pl. 4, Figs 1-8. Holotype ♂. Texas, Bay City, May 24, 1907, E.B. Williamson.

Currently considered a synonym of *Arigomphus lentulus* (Needham, 1902).

submedianus Williamson (*Gomphus*), 1914:54, Pl. 5, Figs 13-20. Holotype ♂. Texas, Bay City, May 24, 1907, E.B. Williamson.

Currently known as *Arigomphus submedianus* (Williamson, 1914).

subquadrices Kennedy (*Epigomphus*), 1946b:662, Figs 1-3, 7, 9-13. Holotype ♂ Panama, Panama Prov., Cerro Campana, 2000 ft., 10 Aug. 1941, Graham Fairchild.

The holotype, as stated by Kennedy (1946b), is in poor condition. Parts of the holotype are allocated to various envelopes as follows: (1) 1 pair of wings, prothorax, 3 legs, (2) head and one prothoracic leg. The synthorax, abdomen, and other pair of wings are missing.

superbus Belle (*Progomphus*), 1973:282, Figs 269-273. Holotype ♂. Ecuador: Prov. Los Rios (elev. 15 m.), 4 March 1938, W. Clarke-MacIntyre.

tigrivensis Williamson (*Desmogomphus*), 1920b:3, Pl. 1, Figs 1-11. Holotype ♂. British Guiana: Tiger Creek, near Tumatumari, Feb. 5, 1912, L.A. and E.B. Williamson and B.J. Rainey.

Originally described from 2 ♂♂, the paratype ♂ is stated by Williamson to be in the collection of P. Calvert and should now be in the Academy of Natural Sciences, Philadelphia.

townesi Gloyd (*Stylurus*), 1936:5, Pl. 2, Figs 1-6. Holotype ♂. South Carolina: Greenville Co.: North Saluda River, Aug. 13, 1931, H.K. Townes, Jr.

williamsoni Förster (ssp. of *Burmagomphus vermicularis*), 1914:76. Lectotype ♂ designated by Lieftinck (1964:20). 4 Camp Jor/2000 m. [sic!]/Wasserscheide zw[ischen]./Perak u[nd]. Pahang/(Inner Malakka)/Albert Grubauer/1901. [4 penciled, probably by M.A. Lieftinck; remainder by F. Förster]; *Burmagomphus* E.B.W./*vermicularis* R.M./♂ 4 [label by M.A. Lieftinck; 4 penciled].

Currently known as *Burmagomphus williamsoni* Förster, 1914.

williamsoni Gloyd (*Gomphoides*), 1936:9, Pl. 3, Figs 1-3, 5. Holotype ♂. Florida: Madison Co., Logan Lake, Sept. 7, 1932, E.B. Williamson,

et. al. No. 464.

Currently known as *Aphylla williamsoni* (Gloyd, 1936).

williamsoni Muttkowski (*Gomphus*), 1910:98. Holotype ♂. Indiana: Bluffton, June 8, 1902, E.B. Williamson.

Currently considered a natural hybrid (*Gomphus graslinellus* Walsh, 1862 X *Gomphus lividus* Selys, 1854).

xanthenatus Williamson (*Gomphus*), 1907b:305. Holotype ♂. Burma: R.A. Earnshaw.

Currently known as *Asiagomphus xanthenatus xanthenatus* (Williamson, 1907).

Cordulegastridae

deserticola Cruden (*Cordulegaster*), 1969:128, Figs 1-2. Holotype ♂. California, Inyo Co., Batchelder Spring ca. 8 mi. E. of Rt. 395 on Westgard Pass Road at ca. 6000 ft. 29 July 1967, R.W. Cruden.

Currently known as *Cordulegaster dorsalis deserticola* Cruden, 1969.

kuchenbeiseri Förster (*Cordulegaster (Anotogaster)*), 1899a: 68-69. 1 ♂ syntype. Ta chiao sse/1 Tagreise westlich/in den Bergen von/Pecking 7.98/P. Kuchenbeiser; *Cordulegaster* ♂/*kuchenbeiseri* n. sp./type Förster [labels by F. Förster]; 1 Syntype ♀. Same data.

Originally described from 2 ♂♂, 2 ♀♀. Currently known as *Anotogaster kuchenbeiseri* (Förster, 1899).

Corduliidae

alleghaniensis Williamson (*Macromia*), 1909:376. Holotype ♂. Pennsylvania: Ohio Pyle, 24 June 1900, E.B. Williamson.

australensis Williamson (*Macromia*), 1909:381. Holotype ♂. Oklahoma: Poteau River, Wister, 3 August, 1907, Frank Collins.

Currently considered a synonym of *Macromia illinoiensis georgina* (Selys, 1878).

bicornis Förster (*Macromia*), 1906b:320. Holotype ♂. Mbundjo/am mittleren/Mongo/Kamerun, ♂/gesamt. von Bakundu/nezern erhalt./Novemb 1899/durch Frau Missionar/Bohner; *Macromia* Type/*bicornis* Foerster ♂/an M. paula K. m ?) [labels F. Förster].

Currently considered a synonym of *Phyllomacromia paula* (Karsch, 1892).

calverti Williamson & Gloyd (*Somatochlora*), 1933:1, Figs (not numbered). Holotype ♂. Florida: Liberty Co. (about 4 mi by road west of Rock Bluff), 25 August 1932. E.B. Williamson *et al.*

charadraea Williamson (*Somatochlora*), 1907a:5, Figs 1-2. Holotype

♂. Colorado: Jefferson Co., Bear Creek Canyon, July 31, 1898, E.J. Oslar.

Currently considered a synonym of *Somatochlora ensigera* Martin, 1907.

hineana Williamson (*Somatochlora*), 1931:1, Figs (not numbered). Holotype ♂. OHIO: Lohan Co., Indian Lake, June 14, 1929, C.H. Kennedy.

incurvata Walker (*Somatochlora*), 1918:367. Holotype ♂. Michigan: Chippewa Co., Whitefish Point, July 29, 1916, A.F. Combs.

monoceros Förster (*Macromia*), 1906b:319. Holotype ♂. Nguelo/Usambara (Küste)/Deutsch-Ost-/Afrika ♂ [label F. Förster]; Nguelo./Usambara/H. Rolle/Berlin, S.W. II. [black bordered printed label].

We follow May (1997) in placing this taxon in the genus *Phyllomacromia*. Currently known as *Phyllomacromia monoceros* (Förster, 1906).

ozarkensis Bird (*Somatochlora*), 1933:1. Holotype ♂. Oklahoma: Latimer Co., Cunneotubby Cr., July 14, 1931, W. Fisher.

paradoxa Förster (*Cordulia*), 1908b:28. Holotype ♀. Kuranda/Queensland/Janson vdt 1907; Palaeosynthemis/paradoxa Foerster/Type ♀ [labels F. Förster].

Currently considered a synonym of *Choristhemis flavoterminalata* (Martin, 1901).

ptilorhina Förster (*Eusynthemis*) 1908b:26. 1 Syntype ♂. Baronfluss b[ei]./Cairns/Nord Queensland/Emile Weiske; Eusynthemis ♂/ptilorhina Foerster/Type [labels F. Förster]. 1 Syntype ♀. Same data.

Originally described from 4 ♂♂, 4 ♀♀ in the Förster collection. Currently considered a synonym of *Eusynthemis nigra* (Tillyard, 1906).

sambawana Förster (*Somatochlora*), 1899a:64-65. Holotype ♂. Insel Sambawa/zwischen Floris/u. Sumba/A. Pagenstecher com./1898; Somatochlora/sambawa ♂/Type Foerster; Procordulia/R. Martin ♂.

Currently known as *Procordulia sambawana* (Förster, 1899).

sepia Gloyd (*Tetragoneuria*), 1933:2, Figs 1-3. Holotype ♂. Florida, Madison Co.: Aucilla River nr. Pettis Springs, 7 September 1932. Mrs. W.H. Ditzler.

stella Williamson (*Tetragoneuria*), 1911:96. Holotype ♂. Florida, West Palm Beach, Feb. 22, 1904, Mrs. C.C. (Stella) Deam.

terpsichore Förster (*Macromia*), 1900a:86. Lectotype σ designated by Kormondy in Lieftinck (1971a:35). Im Urwald um das/ Einwohnendorf Bongu/b[ei]. Konstantinshafen/W. Wahnes 1899; *Macromia*/Terpsichore σ /Type Foerster [labels F. Förster].

This species was originally described from 2 $\sigma\sigma$, but the second σ in the UMMZ has been determined by Lieftinck (1942:562; 1971a:35) as *M. celaeno* Lieftinck, 1955.

turfosa Förster (ssp. of *Cordulia aenea*), 1902:72. Holotype σ . Nonmattweier/ see 900 m./24. 7. 98; *Cordulia aenea* S. Type σ / subrasse turfosa m[ihi] [labels F. Förster].

Although the name was originally spelled *aenea-turfosa*, Förster's original intent was most likely to introduce the name as a subspecies of *C. aenea*. Currently known as a synonym of *Cordulia aenea* (Linnaeus, 1758).

uchidai Förster (*Somatochlora*), 1909:233. 1 σ syntype. Iwashiro/ Japan 1907/S. Uchidas coll; *Somatochlora/uchidasi* Foerster/ σ Type.

The species was described based on an unspecified number of $\sigma\sigma$ and $\phi\phi$.

wabashensis Williamson (*Macromia*), 1909:374. Holotype σ . Indiana: Bluffton, 28 June 1908, E.B. Williamson.

There is a ϕ pinned along with the holotype labeled by L.K. Gloyd as allotype with same data, but 1 August 1909.

Although described as a species, Dunkle (1995b) and Needham *et al.* (2000) consider this taxon a possible hybrid between *Macromia pacifica* Hagen and *M. taeniolata* Rambur.

williamsoni Muttkowski (*Tetragoneuria*), 1911:123. Holotype σ . Oklahoma, Wister, June 3, 1907, E.B. Williamson.

Currently known as a synonym of *Tetragoneuria costalis* (Selys, 1871).

xanthosoma Williamson (*Platycordulia*), 1908:432, Pl. 18. Holotype σ . Oklahoma, Wister, 4 June 1907, E.B. Williamson.

The right fore- and hind wings have been detached and provided the photograph on Pl. 18 of the original description. They are not with the holotype. The species was described from 2 $\sigma\sigma$ and we consider the statement for the figure legend ("Below, *Platycordulia xanthosoma* σ . Wister, Oklahoma. From type.") as equivalent to holotype designation. Currently known as *Neurocordulia xanthosoma* (Williamson, 1908).

Libellulidae

acantha Borror (*Erythrodiplax*), 1942:199, Pl. 21, Fig. 283. Holotype ♂. Brazil, São Paulo State, São Paulo, 1905, Bauer.

amphinome Ris (*Oligoclada*), 1919:1133. Lectotype ♂. British Guiana: Tumatumari, 12 Feb. 1912, L.A. & E.B. Williamson & B.J. Rainey.

Originally described from 16 ♂♂, all in the Williamson collection. We consider the statement by Borror (1931:31) under material examined: "Tumatumari, 1912, 3 ♂♂ February 11[*sic!*, should be 12] (including type)" as lectotype designation.

anatoidea Borror (*Erythrodiplax*), 1942:66, Pl. 2, Fig. 9; Pl. 11, Fig. 90; Pl. 16, Fig. 182; Pl. 19, Fig. 231; Pl. 24, Fig. 328; Pl. 26, Fig. 386. Holotype ♂. Brazil: Amazonas State: Porto Velho, 3 May 1922, J.H. Williamson. & J.W. Strohm.

The holotype is missing, there being only a pinned genitalia vial with the treated penis, and a glass mount with the right wings that were used in Fig. 9.

andagoya Borror (*Erythrodiplax*), 1942:123, Pl. 20, Fig. 254; Pl. 25, Fig. 344. Holotype ♂. Colombia: Andagoya, 22 April 1918, M.A. Carriker.

angustipennis Borror (*Erythrodiplax*), 1942:68, Pl. 16, Fig. 183; Pl. 26, Fig. 368. Holotype ♂: Brazil: Matto Grosso, Villa Murinho. 1 April 1922, J.H. Williamson & J.W. Strohm.

The holotype is missing, there being only a pinned genitalia vial with the treated penis.

atripes Hagen (*Diplax*), 1861:171. 1 ♂, 1 ♀ syntypes. ♂: Yellow Stone/ Hayden 1972 [label H. Hagen]; Hagen [label printed]; Type/6, 18/ 12441 [red labels with hand written numbers by N. Banks].

No type was designated in the original description, based on an unspecified number of specimens. Currently considered a synonym of *Sympetrum costiferum* (Hagen, 1861).

avittata Borror (ssp. *Erythrodiplax basalis*), 1942:141, Pl. 18, Fig. 208; Pl. 20, Fig. 260; Pl. 25, Fig. 349. Holotype ♂. Paraguay (inner): Costa Aguaray, Strobel vdt. 1898, F. Förster collection.

The penis has been removed and placed in a genitalia vial beneath the holotype. Currently known as *Erythrodiplax basalis avittata* Borror, 1942.

bertha Williamson (*Celithemis*), 1922c:8. Holotype ♂. Florida, Enterprise, 26 April 1921, J.H. Williamson.

braueri Förster (*Tetrathemis*), 1900a:85. Holotype ♀. Gegagalu/

(Sattelberg) ♀/b[ei] Simbang/D. Neuguinea/W. Wahnes 1-5-1899; *Nannophlebia* ♀/Braueri Foerster/Type [labels F. Förster]; *Nannophlebia/braueri* (Foerst.)/Holotype/rev. M.A. Lieftinck '63 [label by Lieftinck].

Currently known as *Nannophlebia braueri* (Förster, 1900).

californicum Walker (ssp. *Sympetrum occidentale*), 1951:161. Holotype ♂. California: Sacramento Co., American River, Sacramento, 15 July 1914, C.H. Kennedy.

calverti Förster (*Cratilla*), 1903a:537. 1 ♂, 3 ♀♀ syntypes. ♂: Calicut ♂/Malabar/H. Kühner; Malayorthemis ♂/calverti Förster. ♀♀: Calicut ♀/Malabar/H. Kühner; Malayorthemis/calverti Förster/Type ♀ [labels F. Förster].

Originally described from an unspecified number of ♂♂ and ♀♀. The ♂ and 1 ♀ are complete, the other 2 ♀♀ lack heads. The male labels do not include the word "Type," but since the locality is the same and in the same handwriting, we considered that it belonged to the same series. There is another set of labels for a ♂ without an associated specimen, which could correspond to this ♂ specimen or to another (lost) ♂. Currently *Cratilla lineata calverti* (Förster, 1903).

carmelita Williamson (*Erythemis*), 1923c:10, Pl. 1, Figs 1-4. Holotype ♂. Colombia: Rio Nuevo, between Magangué and El Banco, 22 Jan. 1917, J.H. & E.B. Williamson.

cauca Borrer (*Erythrodiplax*), 1942:183, Pl. 19, Fig. 67; Pl. 15, Fig. 164; Pl. 21, Fig. 275. Holotype ♂. Colombia: Cauca, ♀ 484.

The penis has been removed and placed in a genitalia vial beneath the holotype. The left pair of wings, which served the basis for Pl. 19, Fig. 67, is missing, and the abdomen is broken and fragmented along segment 3.

chalconota Ris (*Nephepeltia*), 1919:1131. 3 ♂, 1 ♀ syntypes. Guatemala: Puerto Barrios, 26 May, 1909, E.B. Williamson.

Originally described from 5 ♂♂ and 1 ♀, all from the Williamson collection. Ris did not designate a holotype.

clitella Borrer (*Erythrodiplax*), 1942:126, Pl. 17, Fig. 203; Pl. 20, Fig. 255. Holotype ♂. Venezuela: Carabobo: Bejuma, 16 Feb. 1920, J.H. & E.B. Williamson & W.H. Ditzler.

concolor Ris (*Orthemis*), 1919:1106. 9 ♂♂, 2 ♀♀ syntypes. 6 ♂♂: Surinam: Voorburg, 24 Feb. 1912, L.A. & E.B. Williamson, & B.J. Rainey; 1 ♂, 2 ♀♀: British Guiana: Georgetown, 18-25 Feb 1912, same collectors; 1 ♂: Trinidad: San Juan, 2 Mar 1912, same collectors; 1 ♂ Trinidad: Chaguanas, Baracon, 7 Mar 1912, same collectors.

Originally described from 29 ♂♂ and 6 ♀♀ of which 22 ♂♂ and 6 ♀♀ were from the Williamson collection.

cornelia Ris (*Perithemis*), 1910:343. Neotype ♂ designated by Ris (1930:38). Brazil: Matto [*sic!* for Mato] Grosso, Abuná, 18 March 1922, J.H. Williamson & J.W. Strohm.

The right pair of wings, which served as the basis for Pl. 8, Fig. 57 (Ris, 1930), is missing.

corrupta Hagen (*Mesothemis*), 1861:171. 1 ♂, 1 ♀ syntypes. ♂: Matamora [label H. Hagen]; Hagen [label printed]; Type/5/1867 [red labels with hand written numbers by N. Banks]. ♀: Pecos River/Texas; June/4 [purple label in unknown hand]; Hagen [label printed]; Type/4/1867 [red labels with hand written numbers by N. Banks].

No type was designated in the original description, based on an unspecified number of specimens. Currently known as *Sympetrum corruptum* (Hagen, 1861).

crocogaster Borror (*Oligoclada*), 1931:29, Pl. 5, Fig. 40. Holotype ♂. Brazil: Para State, Belem, 7 August 1922, J.H. Williamson and J.W. Strohm.

culminicola Förster (*Onychothemis*), 1904:362 (3 reprint). Holotype ♂. Camp Jor, Wasser/Scheide zw[ischen]. Pahang/u[nd]. Perak 2000 m. [*sic!*]/Albert Grubauer/1901 [on reverse] Inner-Malakka; *Onychothemis* ♂/*culminicola* Foerst./n. sp. [labels F. Förster].

decisa Hagen (*Diplax*), 1874:588. 1 ♂, 1 ♀ syntypes. Ft Hill, Colo./Carpenter 73 [label H. Hagen];Type/5, 11/12242 [red labels with hand written numbers by N. Banks].

No type was designated in the original description, based on an unspecified number of specimens. Currently considered a synonym of *Sympetrum obtusum* (Hagen, 1867).

dictynna Ris (*Micrathyria*), 1919:1146, Figs 664-665. 2 ♂♂, 2 ♀♀ syntypes: Guatemala: Puerto Barrios, 23 June 1909, E.B. Williamson.

The original description was based on a series of 6 ♂♂ and 4 ♀♀, and the illustrations of wings and hamuli were based on 1 ♂ syntype from Puerto Barrios at the UMMZ collection.

dunklei Westfall (*Micrathyria*), 1992:210, Figs 27-32. Holotype ♂. Brazil: State of Rondonia (formerly Amazonas), Porto Velho, 1-II-1922, Coll. by J.H. Williamson & J.W. Strohm (No. 1444).

electra Ris (*Perithemis*), 1930:33, Pl. 8, Fig. 59. Holotype ♂. Venezuela: Falcon: Palma Sola, 9 March 1920, J.H. & E.B. Williamson & W.H. Ditzler.

The right wings, which are missing from the holotype almost certainly served as the basis for Fig. 59.

ellenbeckii Förster (*Trithemis*), 1906b:314. Lectotype ♂ designated by Kormondy and Gloyd in Pinhey (1962:271). See Abassa/8/XII/00 DvE[rlanger].; *Trithemis* Type./*Ellenbeckii* Foerster [labels F. Förster]; Genital organs and apps./figured-Lieftinck/ revised, 1968.

erlangeri Förster (*Philonomon*), 1906c:10. Lectotype ♂ designated by Kormondy and Gloyd in Pinhey (1962:265). Exped. Carlo/von Erlanger/ Galln-Somalil and./Haro Ali/7.IV.1901/Dr. Ellenbeck; *Philonomon*/Erlangeri [labels F. Förster].

Currently considered a synonym of *Philonomon luminans* (Karsch, 1893).

erlangeri Förster (*Trithemis*), 1906b:312. Lectotype ♂ designated by Kormondy and Gloyd in Pinhey (1962:270). Somalil and/Fluss Mane ♀/10.IV.1901/leg. Dr. Ellenbeck/Exp. Carlo v. Erlanger; *Trithemis*/Erlangeri Förster/♂ Type.

Currently considered a synonym of *Trithemis donaldsoni* (Calvert, 1899).

essequiba Ris (*Dasythemis*), 1919:1108. Holotype ♂. British Guiana, Rockstone, 1 Feb. 1913, L.A. & E.B. Williamson & B.J. Rainey.

estherae Montgomery (*Diastatops*), 1940:247, Pl. 2, Figs 4-6; Pl. 4, Fig. 4. Holotype ♂: Brazil: Amazonas State, Manaus, 10 June 1922, J.W. Strohm & J.H. Williamson.

The right wings of the holotype have been removed and were probably the basis for Fig. 4, Pl. 4 of the original description.

farinosum Förster (*Orthetrum*), 1898b:169. Lectotype ♂ designated by Kormondy & Gloyd in Pinhey (1962:241). Komatipoort/Transvaal/Karl Hartmann/30.12.1897; *Orthetrum farinosum* Förster/Type ♂ [labels F. Förster].

Currently known as *Nesciothemis farinosa* (Förster, 1898).

fasciatum Walker (ssp. *Sympetrum occidentale*), 1951:162. Holotype ♂. Utah: Grand Co., 2 mi. N. of Moab, 16 June 1937, Leonora K. Gloyd.

friedericella Förster (*Diplacodes*), 1905a:75. Holotype ♀. Costa Aquaray/im Innern von/Paraguay ♀/Stichel 1897; fehlt in collect Selys/vergliechen; *Diplacodes/fridericulus*/Type Foerster [labels F. Förster].

Currently considered a synonym of *Erythrodiplax maculosa* (Hagen, 1861).

gaigei Gloyd (*Libellula*), 1938:2, Pl. 1, Figs 1-3, 5-6. Holotype ♂.

Mexico, Yucatan, Hacienda at Chichen Itzá, 14 June 1932, E.P. Creaser.

glacialis Hagen (*Leucorrhinia*), 1890:234. 2 ♂♂ syntypes. Reno, Nev./Morrison, 1978 [label printed]; *glacialis* [written label in unknown hand]; Type/7, 8/12439 [red labels with hand written numbers by N. Banks].

No type was designated in the original description, based on 16 specimens.

heliophila Borror (*Oligoclada*), 1931:32. Holotype ♂. Colombia: Rio Frio, 8 January 1917, J.H. & E.B. Williamson.

huanacina Förster (*Tramea*), 1909:229. Holotype ♂. Yungas de la Paz/Bolivia/6.II.1900 ♂; *Tramea* ♂/*huanacina* Foerst./Type.

The head and abdomen are lacking from the holotype. Currently considered a synonym of *Pantala hymenaea* (Say, 1839).

hyalina Förster (spp. *Erythrodiplax nigricans*), 1907:157 (6 reprint). 1 ♀ syntype. SAPUCAY/PARAGUAY/12.2.05 [stamped in blue]; *Erythrodiplax hyalina* Foerster ♀/det. DJ Borror'37/PARAGUAY, Sapucay, Feb. 12, 1905, W.T. Foster, FOERSTER COLL.

Although this specimen does not include a label with Förster's type designation, we agree with Borror (1942:132) in considering this ♀ as belonging to the original type series. Förster mentioned ♂♂ and ♀♀ from Sapucay, Paraguay, collected on 12.02, but this ♀ is the only specimen found in the UMMZ collection. Currently considered a good species; *Erythrodiplax hyalina* Förster, 1907.

idalia Ris (*Macrothemis*), 1919:1217. Holotype ♀. British Guiana: Tumatumari, 5 Feb. 1912, L.A. & E.B. Williamson & B.J. Rainey.

jesseana Williamson (*Libellula*), 1922a:13. Holotype ♂. Florida, Enterprise, 26 April 1921, J.H. Williamson.

komatina Förster (*Zygonyx*), 1906c:25. Lectotype ♂ designated by Kormondy & Gloyd in Pinhey (1962:277). Komatipoort/Transvaal/3-I-1898/Karl Hartmann [label F. Förster].

Currently considered a synonym of *Zygonyx natalensis* (Martin, 1900).

lativittata Borror (ssp. *Erythrodiplax famula*), 1942:100. Holotype ♂. Brazil: Amazonas state: Manaos, 8 June 1922, J.H. Williamson and J.W. Strohm.

Currently known as *Erythrodiplax famula lativittata* Borror, 1942.

lenti Ris (*Erythrodiplax*), 1919:1156. Lectotype ♂. British Guiana: Rockstone, 2 Feb. 1912, L.A. & E.B. Williamson & B.J. Rainey.

The species was described from 5 ♂♂; 4 of them from the Williamson

collection (2 σ from Rockstone and 2 σ Cumoto), were designated by Ris as types. A fifth male, (Pará) from "Mus. Bern." represents *E. amazonica melanica* Borrer. We consider the statement by Borrer (1942:53): "British Guiana. Rockstone (WWR, 1912), 1 σ 2/2 (Type of lenti)" as lectotype designation. Currently considered a synonym of *Erythrodiplax amazonica* Sjöstedt, 1918.

leopardina Förster (*Atoconeura*), 1906c:38. Holotype σ . Nguelo, Bergland/West Usambara/Rolle vend. 1905; Oreocema σ /leopardina Foerster/Type [labels F. Förster]; = 28. *Atoconeura* Karsch. Entomolog/Nachrichten. XXV. 1899. pg. 371 [long printed text apparently cut from a paper].

Currently considered a synonym of *Atoconeura biordinata* Karsch, 1899.

leonora Westfall (ssp. *Celithemis bertha*), 1952:112. Holotype σ . Florida: Liberty Co., Mystic Lake, 20 Aug. 1932, E.B. Williamson *et. al.*

Currently considered a variant of *C. bertha*.

lilacina Förster (*Trithemis*), 1899a:64. Holotype σ . Insel σ /Sumbawa/A. Pagenstacher dt./1898; *Trithemis/liliacina* σ /Förster/Type σ [labels F. Förster].

lugubre Ris (ssp. *Orthetrum azureum*), 1915:142, Fig. 3. Lectotype σ designated by Kormondy & Gloyd *in* Pinhey (1962:233). Comoro Islands, Mayotte, 6 June 1911, G.F. Leigh.

macrostigma Förster (*Dasythemis*), 1907:167 (10 reprint). 2 σ , 2 φ syntypes. 1 σ : SAPUCAY/PARAGUAY/6.2.05 [stamped in blue]; *Dasythemis* σ /macrostigma/Type Förster [label F. Förster]. 1 σ : same data but 25.2.05. 2 φ : same data but φ and 12.2.05.

Currently considered a synonym of *Dasythemis venosa* (Burmeister, 1839).

maia Ris (ssp. *Trithemis selika*), 1915:145. Lectotype σ designated by Kormondy & Gloyd *in* Pinhey (1962:273). Comoro Islands, Mayotte, 6 May 1911, G.F. Leigh.

Currently known as *Trithemis lateralis maia* Ris, 1915.

marsupialis Förster (*Microtrigonia*), 1903a:526, Fig. 3. Holotype σ . Auf dem Sattelberg/(gegagalu)/N. Neu Guinea σ /C. Wahnes/Sommer 1900 [and on reverse side] "Sttlbg" /Wahnes; *Microtrigonia* σ /marsupialis Foerster/genus u. species type [labels F. Förster].

martha Williamson (*Celithemis*), 1922c:4. Holotype σ . New York, Long Island, Wyandarch, 21 August 1917, William T. Davis.

melanica Borrer (ssp. *Erythrodiplax amazonica*), 1942:53, Pl. 11, Fig.

87. Holotype σ . Brazil: Amazonas state: Porto Velho, J.H. & J.W. Williamson, Jan 25 1922, [No. 1077].

In the UMMZ collection there are 6 $\sigma\sigma$ paratypes of this species, but the holotype is missing.

melanorubra Borror (*Erythrodiplax*), 1942:184, Fig. 69. Holotype σ . Campamiento, Colonia del Perene, Peru. φ 402. 6/7/20 (14). J.H. Williamson. Det. Borror. E. connata melanorubra Holotype σ .

The above data is taken from the glass-mounted left wings. The remainder of the holotype is missing.

mengeri Ris (*Micrathyria*), 1919:1149, Figs 666-667. σ Lectotype. British Guiana: Rockstone, 2 Feb. 1912, E.B. Williamson.

In his description of *Micrathyria mengeri watsoni* Dunkle (1995a: 46) regarded the σ from Rockstone as the holotype and the φ from the same locality as the allotype, based on an English translation by Ris of his German description. However, the original description is based on a series of 12 $\sigma\sigma$ and 3 $\varphi\varphi$, and the only mention of the word "type" cannot be considered as a type designation: "The σ from São Paulo, Amazonas, is not completely colored, but agrees in general with the type from Rockstone." We consider Dunkle's reference to this specimen as a lectotype designation. The illustration by Menger in Ris (1919, Fig. 267) of the cerci in lateral view is not correct, since the lectotype has a large ventrally projecting tooth at the basal 0.35 of the cercus.

monomelaena Williamson (*Celithemis*), 1910:155. Holotype σ . Indiana: Whitney Co., Round Lake, 22 July 1898, E.B. Williamson.

Currently considered a synonym of *Celithemis fasciata* Kirby, 1889.

monosticha Borror (*Oligoclada*), 1931:20, Pl. 1, Fig. 2; Pl. 2, Fig. 14; Pl. 5, Fig. 36. Holotype σ . Peru: Lelicia, 29 June 1920. H.S. Parish.

nigra Montgomery (*Diastatops*), 1940:253, Pl. 3, Figs 4-6; Pl. 5, Fig. 2. Holotype σ . Brazil: Amazonas State, Carvoeiro (Rio Negro), 11 July 1922, J.W. Strohm & J.H. Williamson.

The left wings of the holotype have been removed and were probably the basis for Fig. 2, Plate 5 of the original description. Abdominal segment 10 plus caudal appendages are pointed beneath the holotype.

nutrina Förster (*Erythrodiplax*), 1914:72. Holotype σ . Esperanza/de Sta. Fe σ /Republ. Argentina/Ernesto Lidner/1. Januar/897; *Erythrodiplax* σ /chinchillina n. sp. [labels F. Förster].

Although this specimen is not labeled *nutrina*, we follow Borror (1942:89) in considering it as Förster's type: "...fits his description,

even including locality, date and collector. This specimen is labelled "*E. chinchillina*, n. sp." in Förster's handwriting, and must be his type of *nutrina* as he apparently never published a description of *E. chinchillina*." Currently considered a synonym of *Erythrodiplax corallina* (Brauer, 1865).

occidentalis Bartenev (ssp. *Sympetrum occidentale*), 1915:1. Neotype ♂ designated by Walker (1951:159-160).

Originally described by Bartenev as *Sympetrum semicinctum occidentale*, with no evidence of this author ever possessing specimens (Walker 1951:153-154). Walker accorded the name species rank, changed it to *occidentale*, and designated holo- and allotype. We interpret Walker's action as designation of a neotype.

ouvirandrae Förster (*Oreoxenia*), 1899b:191 (6 sep.). Holotype ♂. Montagne de l'Am/de l'Ambre. Ficke; *Oreoxenia* ng/*ouvirandrae* n. sp./Type ♂ 1899; *Neodythemis/hildebranti* Karsch ♂/*Oreoxenia ouvirandrae*/Förster [last label probably added sometime after original description; all labels F. Förster].

Currently considered a synonym of *Neodythemis hildebranti* Karsch, 1889.

paraguayensis Förster (*Diplacodes*), 1905a:76 (4 reprint). Holotype ♀. Costa Stichel 1897/Aquaray/im Innern ♀/von Paraguay/Stichel 1897; *Diplacodes paraguayensis*/Type Förster [labels F. Förster].

Currently known as *Erythrodiplax paraguayensis* (Förster, 1905).

parvulum Förster (ssp. *Orthetrum villosovittatum*), 1903a:540. Holotype ♂. Molukken/Koer Islands/Rolle 1903; *Orthetrum* ♂/*villosovittatum* Br./subrasse *parvulum*/Type ♂.

Currently considered a synonym of *Orthetrum villosovittatum* (Brauer, 1868).

paulina Förster (*Tramea*), 1910:52. Holotype ♂. São Paulo/Prov. São Paulo/Brazilia/Bauer 1904; *Tramea*/Rasse der brasiliana [labels F. Förster]; believed to be type/of *Tramea paulina*/E.B.W. [label E.B. Williamson].

The thorax is fractured and is glued together, and the tips of the cerci are missing. Currently considered a synonym of *Tramea binotata* (Rambur, 1842).

petaurina Förster (ssp. *Tramea loewii*), 1909:230. Lectotype ♀ designated by Lieftinck (1942:521). 900 m ♀/Sattelberg/Huongolf/Februar 1906/Carl Wahnes.; *Tramea* ♀/*petaurina*/n. sp. [labels F. Förster]; Probably/type/C.H.K. [label C.H. Kennedy].

We consider the statement by Lieftinck (1942:521): "Type: Mus. Ann

Arbor," as a lectotype designation. Currently considered a synonym of *Tramea eurybia eurybia* Selys 1878. The type lacks the cerci.

pluvialis Förster (*Trithemis*), 1906c:30. Holotype σ . Nguelo/Usambara/Deutsch Ost-/Africa/Rolle vdt. 1903; *Trithemis/pluvialis* Foerster/ σ Type [labels F. Förster].

protoe Förster (*Micrathyria*), 1907:153. 1 σ syntype. SAPUCAY/PARAGUAY/24-2-05 [stamped in blue ink]; *Micrathyria/protoe* Foerster/ σ Type [labels F. Förster].

Originally described from 2 $\sigma\sigma$. Currently considered a synonym of *Micrathyria hypodidyma* Calvert, 1906.

pygmaea Förster (ssp. *Crocothemis erythraea*), 1906c:29. Lectotype φ designated by Kormondy and Gloyd in Pinhey (1962:259). Nguelo 1905/Bergland von/Ost-Usambara; *Crocothemis/erythraea pygmaea*/ φ Type Foerster [labels F. Förster].

Originally described from an unspecified number of $\sigma\sigma$ and at least 1 φ , only the φ is extant. Pinhey (1962:259) states: "*pygmaea* φ in Ann Arbor, lectot. m. [*sic!*] design. by Kormondy and Gloyd." Currently considered a synonym of *Crocothemis sanguinolenta* (Burmeister, 1839).

quicha Calvert (ssp. *Micrathyria ocellata*), 1909:237. 3 $\sigma\sigma$, 2 $\varphi\varphi$ syntypes. $\sigma\sigma$: Guatemala: Los Amates, 13 Feb. 1905, E.B. Williamson. $\varphi\varphi$: Guatemala: San Jose, Feb 5 1905, E.B. Williamson.

This subspecies was differentiated by Calvert from *M. ocellata* in 1906 and he formally named it in 1909. In the description no type material was indicated. In the UMMZ we found 3 $\sigma\sigma$ and 2 $\varphi\varphi$ examined and identified as *quicha* by Calvert, and we consider them to be syntypes. One of the σ was illustrated (as *M. ocellata* Martin) by Calvert (1906, Pl. 9, Fig. 22), another specimen served as his illustration (Pl. 9, Fig. 23) of the appendages.

raineyi Ris (*Oligoclada*), 1919:1134, Figs 650-651. Lectotype σ . British Guiana: Tumatumari, 7 Feb. 1912.

Originally described from 12 $\sigma\sigma$, 9 of which are from the Williamson collection. We consider the statement by Borror (1931:35) under material examined: "Tumatumari, 1912, 2 males. February 9, 2 $\sigma\sigma$ (including the type) February 11." as a lectotype designation. Notes on the original envelope by Ris & Menger indicate that the lectotype served the basis for Figs 650-651 of the original description. The left wings of the lectotype are missing, the right forewing has been glued at the level of the nodus, and the abdomen has been glued to the thorax. Currently considered a synonym of *Oligoclada abbreviata* (Rambur, 1842).

rufina Förster (*Termitophorba*), 1906b:306. Lectotype σ designated by Kormondy & Gloyd in Pinhey (1962:261). Darolifluss./6.III.1901/Exp. Carlo v./Erlanger σ /Somalien Type/Gallalant; Termitophorba/rufina Foerster/ σ . Type [labels F. Förster].

This species was described twice; first in Jahrbüchern des Nassauischen Vereins für Naturkunde, Jahrgang 59, and with a shorter description on page 9 of Jahrsbericht des Mannheimer Vereins für Naturkunde 1904 and 1905. Both works were published in 1906. Pinhey (1962:261) cites the second work as published first, but Bridges (1994: VII: 206) the reverse. We follow Bridges. Currently considered a synonym of *Brachythemis lacustris* (Kirby, 1889).

salomonis Förster (ssp. *Agrionoptera similis*), 1898a:284. 1 σ , 1 φ syntypes. σ : Agrionoptera/similis de Selys/sub Rasse σ /salomonis Förster/type. φ : same as σ and Shortland φ /Insel/Salomon Archip./Wahnes leg/1895 [labels F. Förster].

No locality label accompanies the σ syntype. Currently considered a synonym of *Agrionoptera insignis* (Rambur, 1842).

saxicolor Ris (*Crocothemis*), 1919:1164. Lectotype φ designated by Kormondy and Gloyd in Pinhey (1962:259). Salisbury Mashongland, April 1900, G.A.K. Marshall.

Originally described from 1 teneral σ , 5 $\varphi\varphi$, the teneral σ was labeled by L.K. Gloyd as holotype and the φ as allotype; however, Ris did not designate a type and Pinhey (1962:259) stated: "Type σ , lectot. φ in Ann Arbor."

schneideri Förster (*Orthetrum*), 1903a:541. Holotype σ . Rayahberge/(Serbo Dalak)/Plateau von Hoch-/Sumatra/Gustav Schneider jun/1899; Orthetrum/schneideri σ /Förster/Type; [another label, mostly undecipherable, descriptive in nature; all labels F. Förster].

Described from apparently 1 σ . Currently known as *Orthetrum pruinosum schneideri* (Förster, 1903).

septentrionis Förster (*Neurothemis*), 1904:363 (5 reprint). Holotype σ . H. Fruhstorfer/vdt. 1904/Sikkim; Neurothemis/septentrionis/ σ Type Foerster.

Currently considered a synonym of *Neurothemis intermedia degener* Selys, 1879.

soembanum Förster (ssp. *Orthetrum testaceum*), 1903a:542. Holotype σ . Insel Soemba/(Grelak) coll. φ /Dr. Pagenstacher; Orthetrum testaceum σ /soembanum/Type Foerster [labels F. Förster].

Apparently originally described from 1 σ . Currently known as *Orthetrum testaceum soembanum* Förster, 1903.

stenoptera Borrer (*Oligoclada*), 1931:22, Pl. 1, Fig. 3; Pl.2, Fig. 15; Pl. 5, Fig. 37. Holotype σ . Brazil: Matto Grosso: Abuná, 9 March 1922, J.H. Williamson & J.W. Strohm.

tenuis Borrer (*Erythrodiplax*), 1942:120. Holotype σ . Brazil: State of Amazonas: Porto Velho, J.H. & J.W. Williamson, Feb 18 1922.

The hind wings of the holotype are in a separate envelope, together with small fragments of the heads of holo- and allotype.

thalassophila Förster (*Huonia*), 1903a:520. 1 σ , 1 φ syntypes. σ : Simbang/Huongolf/C. Wahnes [on side] 1900; *Huonia/thalassophila*/Foerster/ σ Type [labels F. Förster]; φ : same data but φ .

Originally described from 1 σ , 2 φ of which the σ and 1 φ are in the UMMZ. The other φ is probably the one mentioned by Lieftinck (1942:485) as being in the Selys collection, Institut Royale des Sciences Naturelles de Belgique, Brussels.

umbricola Borrer (*Oligoclada*), 1931:38, Pl. 1, Fig. 11; Pl. 2, Fig. 19; Pl. 5, Figs 39, 53. Holotype σ . Venezuela: La Fr a, Táchira, April 15 1920, W.N. Ditzler, J.W. Williamson & J.W. Strohm.

ungulata Förster (*Micrathyria*), 1907:153. Lectotype σ designated by Gloyd in Santos (1953:2). Therespolis/St. Catharina/Brazil/Michaelis 1904; *Micrathyria/ungulata* σ /Type Förster [latter label in red ink, both labels F. Förster].

Originally described from 4 $\sigma\sigma$ of which only 1 is in the UMMZ. We consider the statement by Gloyd in Santos (1953:2) quoting the "type" label of Förster as a lectotype designation.

unimacula Förster (ssp. *Diplacodes tetra*), 1906b:307. Holotype σ : Komatipoort 3.I.1898/Transvaal K. Hartmann; *Diplacodes/unimacula* σ /tetra sub [?]. Forster/unimaculata) Type [labels F. Förster].

The holotype is missing the right hind wing tip. Currently considered a synonym of *Diplacodes lefebvrui* (Rambur, 1842).

verna Pritchard (*Celithemis*), 1935:6. Holotype σ . Oklahoma nr. Quinton, 10 June 1934, A.E. Pritchard.

wahnesi Förster (*Protorthemis*), 1897a:39. Holotype σ . Ebene der Astrolabe-/bai. Carl Wahnes leg./1891; *Protorthemis/Wahnesi* Foerster σ /type [labels F. Förster].

Currently considered a synonym of *Protorthemis coronata* (Brauer, 1866).

walkeri Geijskes (*Oligoclada*) 1931:213. Holotype σ . Trinidad: Sangre Grande, 26 March 1930, G. Belmontes.

In the original description, Geijskes designated an "androtype" and 2 paratype males, all with similar data. The UMMZ copy of Borror's monograph is annotated by L.K. Gloyd that the type was donated to the UMMZ by Walker. The hind wings have been separated from the thorax and are glued.

williamsoni Ris (*Dythemis*), 1919:1208, Fig. 682. Holotype ♂. British Guiana: Tumatumari, 5-7 Feb. 1912, L.A. & E.B. Williamson & B.J. Rainey.

Currently known as *Elasmothemis williamsoni* (Ris, 1919).

xanthopleura Borror (*Oligoclada*), 1931:27, Pl. 1, Fig. 5; Pl. 2, Fig. 19; Pl. 5, Figs 39, 53. Holotype ♂. Brazil: Manáos, Amazonas, June 6 1922, J.H. Williamson & J.W. Strohm.

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