

## UPDATED CHECKLIST OF THE ODONATA KNOWN FROM COLOMBIA

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The checklist includes 335 spp., of which 98 spp. are added to the latest figure published, while 21 previously listed spp. are removed from the list since they were based on unverifiable records. The number of spp. hitherto known from Colombia is low if compared to that from some other S American countries, such as Brazil (660 spp.), Venezuela (487) and Peru (368). A summary of the exploration of odon. diversity in Colombia is provided.

### INTRODUCTION

A recent publication (PAULSON, 2004), revealed that little progress regarding the knowledge of odonate diversity in Colombia has been made since the compilation by SANTOS (1981) showing that during the last 30 years only eleven new species have been described from Colombia (VON ELLENRIEDER, 2008; GARRISON, 2009).

Many facts contribute to Colombia being considered a “terra incognita” (see PAULSON, 2004) when it comes to odonate taxonomy, such as the scarcity of taxonomy students, the reduced fund support to activities related to insect conservation, the presence of illegal armed groups in many areas of the country that poses obstacles to recording of general biodiversity, as well as the loss of reference material, such as the Navás types which were lodged in Spanish museums and later destroyed as a consequence of violent conflicts in that country (A. Cordero, pers. comm.). In addition, some taxa are not documented by reference material in local museums, representing one of the most serious limitations for solving the national collection’s taxonomical problems. All these elements are a sign of the crisis that taxonomy is currently experiencing worldwide (AGNARSSON &

KUNTNER, 2007; CRISCI, 2006; WHEELER, 2004), which is intensified in the “Third-World” countries such as Colombia (PAULSON, 2004).

Colombia orogenic features triggered high endemism in some zones which have been declared hotspots (MYERS et al., 2000), turning Colombia into one of the priority countries for biodiversity conservation. This applies to dragonflies as well because a large part of Colombia remains unexplored, and 35 of the 335 species here recorded are endemic to paramos, various basins, and to isolated mountain systems such as the Chiribiquete, Macarena, Sierra Nevada de Santa Marta, and the Perija mountain ranges.

Data were obtained from material deposited in national collections, of which 75% has been studied by specialists, which allowed us to exclude species whose existence in the country is doubtful. Other sources of information include the website of the Slater Museum (<http://www.pugetsound.edu/x7039.xml>) compiled by PAULSON (2009), and the inventory published by SANTOS (1981). Species are listed alphabetically by family, following DAVIES & TOBIN (1984, 1985) and BRIDGES (1993), cross-referenced to bibliography, and the statements on their distribution by province, and the acronym of the collections where specimens are deposited, are provided.

The current list includes 335 species, referable to 90 genera in 14 families (Fig. 1); 98 species are added to the last published number (see PAULSON, 2004), and from these four are new and as yet undescribed.

The records compiled in this work are mostly based on material identified by Jürg De Marmels, Rosser Garrison, Natalia von Ellenrieder, Carlos Esquivel, and Dennis Paulson.

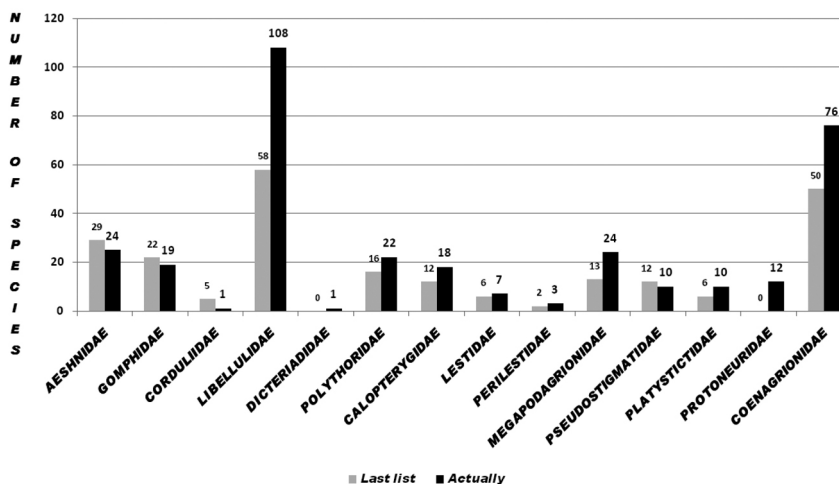


Fig. 1. Histogram showing the odonate proportional diversity per family, comparing the list of SANTOS (1981) and the present list.

## ACRONYMS USED FOR COLLECTIONS

- ABMM: Angelo B.M. Machado collection, Belo Horizonte, Minas Gerais, Brazil  
 AMNH: American Museum Natural History, New York, USA.  
 ANDES: Entomologic Collection University of the ANDES, Bogotá, Colombia.  
 ANSP: Academy of Natural Sciences. Philadelphia, Pennsylvania, USA.  
 BMNH: The Natural History Museum, London, United Kingdom.  
 CUIC: Cornell University, Ithaca, New York, USA  
 DRPC: Dennis R. Paulson personal collection, Seattle, Washington, USA.  
 FSCA: Florida State Collection of Arthropods, Gainesville, Florida, USA.  
 ICN: Instituto de Ciencias Naturales, Universidad Nacional de Colombia, Bogotá D.C.  
 IRSNB: Institut Royal des Sciences Naturelles de Belgique, Bruxelles, Belgium.  
 MCZ: Museum of Comparative Zoology, Harvard University, Cambridge, Massachusetts, USA.  
 MEUV: Museo de Entomología de la Universidad del Valle, Cali, Colombia.  
 MIZA: Museo del Instituto de Zoología Agrícola, Maracay, Venezuela.  
 MNHN: Muséum National d'Histoire Naturelle, Paris, France  
 MEFLG: Museo Entomológico Francisco Luis Gallego, Universidad Nacional de Colombia, Medellín, Colombia.  
 MNHP: Princeton University, Princeton, New Jersey, USA.  
 MUNZ: Massey University, Palmerston North, New Zealand.  
 NMW: Naturhistorisches Museum Wien, Wien, Austria.  
 RWG: Rosser W. Garrison personal collection, Sacramento, California, USA.  
 SMF: Forschungsinstitut und Naturmuseum Senckenberg, Frankfurt-am-Main, Germany.  
 TWD: Thomas W. Donnelly personal collection, Binghamton, New York, USA.  
 UARC: Universidad del Atlántico Región Caribe.  
 UMMZ: University of Michigan, Museum of Zoology, Ann Arbor, Michigan, USA.  
 USNM: National Museum of Natural History, Washington, D.C., USA.

## ACRONYMS USED FOR COLOMBIAN DEPARTMENTS

Amazonas (Am), Antioquia (An), Atlántico (At), Bolívar (Bo), Boyacá (By), Caldas (Cl), Caquetá (Ca), Casanare (Cn), Cauca (Cc), Cesar (Ce), Córdoba (Co), Cundinamarca (Cu), Chocó (Ch), Guainía (Gu), Guaviare (Gv), Huila (Hu), Ll (Llanos Orientales), Magdalena (Ma), Meta (Me), Nariño (Na), Norte de Santander (NS), Quindío (Qu), Putumayo (Pu), Risaralda (Ri), San Andrés (SA), Santander (St), Sucre (Su), Tolima (To), Valle (Vl), Vaupes (Vp) and Vichada (Vi).

## SPECIES EXCLUDED FROM THE COLOMBIAN CHECKLIST

The following 21 species were previously registered for Colombia but are not included in the present list because they were based on unverifiable records:

- *Acanthagrion gracile* (Rambur, 1842), listed by STEINMANN (1997) and HECKMAN (2006) but the record could not be verified and is considered here incorrect.
- *Amphipteryx agrioides* Selys, 1853, listed by RIS (1918); according to GONZÁLEZ-SORIANO & VON ELLENRIEDER (2009), the material collected by Funck originated from northern Mexico rather than from Colombia.
- *Argia extranea* (Hagen, 1861), listed by RIS (1918); according to R.W. Garrison (pers. comm.),

- this species reaches its southernmost limit at the Isthmus of Tehuantepec in Mexico.
- *Argia funcki* (Selys, 1854), listed by STEINMANN (1997) and HECKMAN (2006) but it could not be verified and is considered here incorrect. According to von ELLENRIEDER AND GARRISON (2007) the reports from South America may have resulted from errors on museum labels.
  - *Argia insipida* Hagen in Selys, 1865, listed by STEINMANN (1997) and HECKMAN (2006) but the record could not be verified and is considered here incorrect.
  - *Argia oenea* Hagen in Selys, 1865, listed by Ris (1918); according to GARRISON (1994) *Argia oenea* does not extend into South America, being known only as far south as Panamá.
  - *Argia pocomana* Calvert, 1907, listed by STEINMANN (1997), HECKMAN (2006), and PAULSON (2009) but it could not be verified and is considered here incorrect.
  - *Erythrodiplax melanorubra* Borror, 1942, listed by HECKMAN (2006) but it could not be verified and is considered here incorrect.
  - *Forcypioneura sancta* (Hagen in Selys, 1860), listed by STEINMANN (1997), HECKMAN (2006), and PAULSON (2009) but it could not be verified and is considered here incorrect. All the species of this genus are limited to eastern Brazil (MACHADO, 2009).
  - *Hetaerina majuscula* Selys, 1853, listed by RIS (1918); according to GONZÁLEZ-SORIANO & VON ELLENRIEDER (2009), the material collected by Funck originated from northern Mexico rather than from Colombia..
  - *Libellula croceipennis* (Selys, 1868), listed by HECKMAN (2006) but it could not be verified and is considered here incorrect. It is possible that the data comes from RIS (1910) whose material was collected by Funk. Nevertheless, as it happened to other localities provided by Funk it is likely that the material originated from northern Mexico rather than from Colombia (GONZÁLEZ-SORIANO & VON ELLENRIEDER, 2009).
  - *Mnesarete ephippium* Garrison, 2006, listed by HECKMAN (2006) but it could not be verified and is considered here incorrect. GARRISON (2006) gives Ecuador and Peru as the distribution range for this species.
  - *Mnesarete hauxwelli* (Selys, 1869), listed by STEINMANN (1997) and PAULSON (2009) but the record could not be verified and is considered here incorrect. GARRISON (2006) gives Ecuador and Perú as the distribution range for this species. It is probable that the record is based on FRASER (1946) who mentioned it from Colombia. Nevertheless, GARRISON (2006) stated that the illustration of the cerci of *Mnesarete hauxwelli* that Fraser provides does not correspond to this species but to *Mnesarete fulgida* (Selys, 1879).
  - *Perithemis intensa* Kirby, 1889, listed by HECKMAN (2006) but it could not be verified and is considered here incorrect.
  - *Philogenia berenice* Higgings, 1901, listed by STEINMANN (1997) but it could not be verified and is considered here incorrect.
  - *Polythore aurora* (Selys, 1879), listed by STEINMANN (1997) but it could not be verified and is considered here incorrect.
  - *Polythore lamerceda* Bick & Bick, 1985, listed by STEINMANN (1997) but it could not be verified and is considered here incorrect.
  - *Polythore picta* (Rambur, 1842), listed by STEINMANN (1997) and HECKMAN (2006) but it could not be verified and is considered here incorrect.
  - *Polythore vittata* (Selys, 1869), listed by STEINMANN (1997) but it could not be verified and is considered here incorrect.
  - *Teinopodagrion vilorianum* De Marmels, 2001, listed by HECKMAN (2006) but it could not be verified and is considered here incorrect.
  - *Telebasis carmesina* Calvert, 1909, listed by STEINMANN (1997) but it could not be verified and is considered here incorrect.

## UPDATED LIST OF ODONATA FROM COLOMBIA

## Z y g o p t e r a [10 fam, 41 gen., 183 spp.]

## DICTERIIDIDAE [1 gen., 1 sp.]

*Heliocharis amazona* Selys, 1853: Cu, Me, RIS (1918), ICN

## POLYTHORIDAE [4 gen., 22 spp.]

*Cora aurea* Ris, 1918: RIS (1918)

*Cora confusa* Kennedy, 1940: Ch, ANDES

*Cora chiribiquete* Zloty & Pritchard, 2001: Ca, ZLOTY & PRITCHARD (2001), USNM

*Cora inca* Selys, 1873: Am, To, RIS (1918), BICK & BICK (1990), RWG

*Cora klenei* Karsch, 1891: Vl, BICK & BICK (1990), DRPC

*Cora lugubris* Navás, 1934: Cl, Ri, BICK & BICK (1990), MEFLG, UARC

*Cora marina* Selys, 1868: An, Cu, RIS (1918), BICK & BICK (1990), FSCA

*Cora modesta* Selys, 1869: Cu, Vl, RIS (1918), BICK & BICK (1990), FSCA

*Cora terminalis* MacLachlan, 1878: SCHMIDT (1942), GARRISON et al. (2003)

*Cora xanthostoma* Ris, 1918: Me, RIS (1918), BICK & BICK (1990), ANDES, UARC

*Euthore fasciata fasciata* (Hagen in Selys, 1853): By, Cn, Cc, Cu, Me, RIS (1918), BICK & BICK (1992), ANSP, FSCA, MCZ, MUNZ, RWG, UARC, UMMZ

*Euthore fasciata fastigiata* (Selys, 1859): Am, Cu, Me, RIS (1918), BICK & BICK (1992), ANSP, BMNH, FSCA, IRSNB, MCZ, UMMZ

*Euthore fassli* Ris, 1914: Am, RIS (1918), BICK & BICK (1992), SMF

*Euthore hyalina* (Selys, 1853): By, Cu, RIS (1918), BICK & BICK (1992), ANSP, BMNH, FSCA, UMMZ

*Euthore leroii* Ris, 1918: Cl, To, RIS (1918); BICK & BICK (1992), SMF, UMMZ

*Miocora peraltica* Calvert, 1917: GARRISON et al. (2003), UMMZ

*Polythore beata* (McLachlan, 1869): Ca, BICK & BICK (1986)

*Polythore concinna* (McLachlan, 1881): Pu, KIMMINS (1970), BICK & BICK (1986), BMNH, IRSNB, UARC

*Polythore derivata* (McLachlan, 1881): Ca, Pu, BICK & BICK (1985, 1986), USNM, UARC

*Polythore gigantea* (Selys, 1853): An, Ch, Cu, Ri, To, RIS (1918), BICK & BICK (1985, 1986), AMNH, MEFLG, USNM, UARC

*Polythore mutata* (McLachlan, 1881): Pu, BICK & BICK (1986), UARC

*Polythore procera* (Selys, 1869): An, By, Cu, Me, RIS (1918), BICK & BICK (1985, 1986), SÁNCHEZ (2006), ANDES, DRPC, UARC, UMMZ, USNM

## CALOPTERYGIDAE [3 gen., 18 spp.]

*Hetaerina aurora* Ris, 1918: An, Ma, Ri, RIS (1918), GARRISON (1990), UARC

*Hetaerina caja caja* (Drury, 1773): Ch, Me, To, RIS (1918), GARRISON (1990), ANDES, UARC

*Hetaerina capitalis* Selys, 1873: An, By, Cu, Ma, St, VI, RIS (1918), GARRISON (1990), URRUTIA (2005), MEUV

*Hetaerina cruentata* (Rambur, 1842): By, Cu, Cc, Ma, Qu, To, VI, Ri, RIS (1918), GARRISON (1990), PÉREZ (2003), URRUTIA (2005), DE MARMELS (2006), ANDES, MEFLG, MEUV, MIZA, UARC

*Hetaerina duplex* Selys, 1869: By, Cu, Cn, Me, RIS (1918), GARRISON (1990), ANDES, ICN, UARC

*Hetaerina fuscoguttata* Selys, 1878: Ch, Ma, VI, GARRISON (1990), PÉREZ (2003), URRUTIA (2005), ANDES, MEUV, UARC

*Hetaerina laesa* Hagen in Selys, 1853: GARRISON (1990)

*Hetaerina miniata* Selys, 1879: Ch, PÉREZ et al. (2007), ANDES, UARC

*Hetaerina occisa* Hagen in Selys, 1853: An, At, Bo, By, Cu, Ma, Me, VI, NAVÁS (1935), GARRISON (1990), PÉREZ (2003), URRUTIA (2005), PALACINO (2009a), ANDES, ICN, MEUV, UARC

*Hetaerina proxima* Selys, 1853: Cu, GARRISON (1990)

*Hetaerina sanguinea* Selys, 1853: Me, RIS (1918), GARRISON (1990)

*Hetaerina sempronina* Hagen in Selys, 1853: Cu, RIS (1918), GARRISON (1990)

*Hetaerina simplex* Selys, 1853: Me, DUNKLE (1981)

*Hetaerina vulnerata* Hagen in Selys, 1853: Cu, GARRISON (1990), UMMZ

*Mnesarete drepane* Garrison, 2006: GARRISON (2006)

*Mnesarete fulgida* (Selys, 1879): Ca, GARRISON (2006) reported this species for the Amazon Department, but the locality mentioned is the river Mesay, which is located in the northern region of Araracuara and corresponds to Caquetá Department], UARC

*Mnesarete metallica* (Selys, 1869): Pu, Ri, KIMMINS (1966), GARRISON (2006), BMNH

*Ormenophlebia imperatrix* (McLachlan, 1878): Me, RIS (1918), GARRISON (2006)

## LESTIDAE [2 gen., 7 spp.]

*Archilestes grandis* (Rambur, 1842): Cu, Ma, St, VI, RIS (1918), GARRISON (1982), PÉREZ (2003), URRUTIA (2005), ANDES, ICN, MEFLG, MEUV, UARC

*Archilestes* sp.: Ch, UARC

*Lestes apollinaris* Navás, 1934: By, Cu, ANDES, UARC.

*Lestes forficula* Rambur, 1842: Ma, Qu, VI, PÉREZ, (2003), URRUTIA (2005), MEUV, MIZA, UARC

*Lestes henshawi* Calvert, 1907: Cu, VI, RIS (1918), URRUTIA (2005), MEUV

*Lestes sternalis* Navás, 1930: Cu, ANDES

*Lestes tenuatus* Rambur, 1842: Ma, VI, At, RIS (1918), URRUTIA (2005), MEUV, UARC

PERILESTIDAE [2 gen., 3 spp.]

*Perilestes kahli* Williamson & Williamson, 1924: Me, UARC

*Perissolestes magdalenae* (Williamson & Williamson, 1924): Am, GARRISON et al. (2003)

*Perissolestes remotus* (Williamson & Williamson, 1924): Ch, At, GARRISON et al. (2003), PÉREZ et al. (2007), ANDES, UARC

MEGAPODAGRIONIDAE [5 gen., 24 spp.]

*Heteragrion aequatoriale* Selys, 1886: Cu, Ch, RIS (1918), WILLIAMSON (1919B), GARRISON (1999), VON ELLENRIEDER & GARRISON (2007), ANDES

*Heteragrion breweri* De Marmels, 1989: Me, ANDES, IRSNB, UARC

*Heteragrion calendulum* Williamson, 1919: An, WILLIAMSON (1919B), GARRISON et al. (2003), UMMZ

*Heteragrion erythrogastrum* Selys, 1886: An, Ch, VI, URRUTIA (2005), PÉREZ et al. (2007), ANDES, MEUV, UARC, UMMZ

*Heteragrion mitratum* Williamson, 1919: An, To, WILLIAMSON (1919B), GARRISON et al. (2003), UMMZ

*Heteragrion peregrinum* Williamson, 1919: An, WILLIAMSON (1919B), GARRISON et al. (2003), UMMZ

*Heteropodagrion superbum* Ris, 1918: VI, Ris (1918), GARRISON & VON ELLENRIEDER (2005), DRPC, RWG, UARC

*Mesagrion leucorrhinum* Selys, 1885: Cu, An, By, Me, RIS (1918), NAVÁS (1935), GARRISON & VON ELLENRIEDER (2005), VON ELLENRIEDER & GARRISON (2007), ANDES, BMNH, UARC, UMMZ

*Philogenia cassandra* Hagen in Selys, 1862: Cu, RIS (1918), BICK & BICK (1988)

*Philogenia cristalina* Calvert, 1924: An, Ch, BICK & BICK (1988), GARRISON et al. (2003), PÉREZ et al. (2007), ANDES

*Philogenia ebona* Dunkle, 1986: Ch, DUNKLE (1986), BICK & BICK (1988)

*Philogenia helena* Hagen, 1869: By, Cu, RIS (1918), BICK & BICK (1988)

*Philogenia raphaella* Selys, 1886: Cu, RIS (1918), BICK & BICK (1988)

*Philogenia sucra* Dunkle, 1986: Su, DUNKLE (1986) USNM

*Teinopodagrion caquetanum* De Marmels, 2001: Ca, DE MARMELS (2001), PÉREZ (2007), ANDES, UARC, USNM

- Teinopodagrion curtum* (Selys, 1886): Am, DE MARMELS (2001), UMMZ  
*Teinopodagrion epidrum* De Marmels, 2001 Me, collected in Villavicencio, district La Vanguardia, on road to Calvario. Specimen compared with paratype male by R.W. Garrison (pers. comm.) and apparently conspecific.  
*Teinopodagrion macropus* (Selys, 1862): Ca, Me, DE MARMELS (2001), UMMZ  
*Teinopodagrion mercenarium* (Hagen, 1869): An, Cu, To, RIS (1918), DE MARMELS (2001), UMMZ  
*Teinopodagrion muzanum* (Navás, 1934): By, DE MARMELS (2001), MNHN  
*Teinopodagrion oscillans* (Selys, 1862): By, Cu, Ris (1918), DE MARMELS (2001), UMMZ  
*Teinopodagrion temporale* (Selys, 1862): Ca, Cu, To, NAVÁS (1935), UMMZ  
*Teinopodagrion vallenatum* De Marmels, 2001: Ma, DE MARMELS (2001), GARRISON et al. (2003), PÉREZ (2007), UARC, UMMZ  
*Teinopodagrion venale* (Hagen in Selys, 1862): DE MARMELS (2001), UMMZ

PSEUDOSTIGMATIDAE [5 gen., 10 spp.]

- Anomisma abnorme* McLachlan, 1877: Am, Vp, RWG (von Ellenrieder pers. comm.)  
*Mecistogaster j. jocaste* Hagen, 1869: By, Me, Na, RIS (1918), UARC  
*Mecistogaster jocaste vicentius* Ris, 1918: Cu, Me, RIS (1918)  
*Mecistogaster linearis infumata* Fraser, 1946: Ch, ANDES, UARC  
*Mecistogaster l. linearis* (Fabricius, 1776): By, Cu, Me, RIS (1918)  
*Mecistogaster modesta iphigenia* Selys, 1886: By, RIS (1918), DE MARMELS (1990)  
*Mecistogaster o. ornata* Rambur, 1842: By, Me, VI, Ma, At, RIS (1918), URRUTIA (2005), ANDES, MEUV, UARC  
*Megaloprepus caerulatus* (Drury, 1782): By, Ch, Cu, Me, To, VI, RIS (1918), URRUTIA (2005), PÉREZ et al. (2007), PALACINO (2009a), ANDES, ICN, MEFLG, MEUV, UARC  
*Microstigma rotundatum* Selys, 1860: Me, RIS (1918), UARC  
*Pseudostigma accedens* Selys, 1860 An, MEFLG

PLATYSTICTIDAE [1 gen., 10 spp.]

- Palaemnema apicalis* Navás, 1924: Bo, CALVERT (1931)  
*Palaemnema brucei* Calvert, 1931: CALVERT (1931), GARRISON et al. (2003), UMMZ, UARC  
*Palaemnema carmelita* Ris, 1918: RIS (1918)  
*Palaemnema clementia* Selys, 1886: Ma, RIS (1918), PÉREZ (2003), UARC  
*Palaemnema croceicauda* Calvert, 1931: Pu, CALVERT (1931), GARRISON et al. (2003), UMMZ  
*Palaemnema dentata* Donnelly, 1992: At, Ch, PÉREZ et al. (2007), ANDES,



## UARC

*Palaemnema edmondi* Calvert, 1931: CALVERT (1931), GARRISON et al. (2003), UMMZ

*Palaemnema joanetta* Kennedy, 1940: VI, URRUTIA (2005), MEUV

*Palaemnema mutans* Calvert, 1931: Ch, ANDES

*Palaemnema nathalia* Selys, 1886: Ch, ANDES

## PROTONEURIDAE [5 gen., 12 spp.]

*Drepanoneura donnellyi* von Ellenrieder & Garrison, 2008: An, To, VON ELLENRIEDER & GARRISON (2008a), RWG, TWD, UMMZ, USNM

*Drepanoneura flinti* von Ellenrieder & Garrison, 2008: Ca, VON ELLENRIEDER & GARRISON (2008a), RWG, USNM [Reported from Puerto Abeja which is not in the Amazon Department as erroneously indicated in that paper but in Caquetá Department]

*Epileoneura metallica* Rácenis, 1955: To, ANDES, UARC

*Neoneura bilinearis* Selys, 1860: An, Ma, Qu, WILLIAMSON (1918a), GARRISON (1999), MIZA, UARC

*Neoneura amelia* Calvert, 1903: VI, URRUTIA (2005), MEUV

*Neoneura esthera* Williamson, 1917: An, Ma, To, WILLIAMSON (1918a), GARRISON (1999), ANDES, UARC

*Neoneura myrthea* Williamson, 1917: GARRISON (1999)

*Neoneura sylvatica* Hagen in Selys, 1886: Me, ANDES, UARC

*Protoneura amatoria* Calvert, 1907: Ch, To, PÉREZ et al. (2007), ANDES, UARC

*Protoneura cara* Calvert, 1903: VI, URRUTIA (2005), MEUV

*Psaironeura remissa* (Calvert, 1903): Ch, Ma, VI, URRUTIA (2005), PÉREZ et al. (2007), ANDES, MEUV, UARC

*Psaironeura* sp.: Ch, UARC

## COENAGRIONIDAE [13 gen., 76 spp.]

*Acanthagrion abunae* Leonard, 1977: Me, ROJAS & SÁNCHEZ (2009), ANDES, UARC

*Acanthagrion apicale* Selys, 1876: Me, UARC

*Acanthagrion adustum* Williamson, 1916: Me, ROJAS & SÁNCHEZ (2009), ANDES, UARC

*Acanthagrion ascendens* Calvert, 1909: By, Ma, RIS (1918), LEONARD (1977)

*Acanthagrion floridense* Fraser, 1946: KIMMINS (1966), LEONARD (1977), BMNH

*Acanthagrion fluviatile* (De Marmels, 1984): Ma, DE MARMELS (1984)

*Acanthagrion inexpectum* Leonard, 1977: Cu, ROJAS & SÁNCHEZ (2009), ICN, UARC

*Acanthagrion kennedii* Williamson, 1916: VI, URRUTIA (2005), MEUV

- Acanthagrion minutum* Leonard, 1977: Me, ROJAS & SÁNCHEZ (2009), ICN  
*Acanthagrion obsoletum* (Förster, 1914): Me, RIS (1918), LEONARD (1977)  
*Acanthagrion peruvianum* Leonard, 1977: Me, ROJAS & SÁNCHEZ (2009), ANDES, ICN, UARC  
*Acanthagrion trilobatum* Leonard, 1977: By, Co, Ch, Ma, Qu, Ri, To, LEONARD (1977), GARRISON et al. (2003), PÉREZ (2003), PÉREZ et al. (2007), ANDES, MIZA, UARC, UMMZ  
*Acanthagrion vidua* Selys, 1876: Cu, Me, LEONARD (1977), ROJAS & SÁNCHEZ (2009), ANDES, UARC  
*Acanthagrion viridescens* Leonard, 1977: Me, ROJAS & SÁNCHEZ (2009), ICN  
*Acanthagrion williamsoni* Leonard, 1977: Cc, Me, To, LEONARD (1977), GARRISON et al. (2003), UARC, UMMZ  
*Acanthagrion yungarum* Ris, 1918: Me, RIS (1918)  
*Acanthallagma strohmi* Williamson & Williamson, 1924: ANDES, UARC  
*Argia adamsi* Calvert, 1902: Ch, To, ANDES, UARC  
*Argia cupraurea* Calvert, 1902: Ch, Me, PÉREZ et al. (2007), ANDES, UARC  
*Argia cuprea* (Hagen, 1861): Cu, Me, To, VI, RIS (1918), URRUTIA (2005), ANDES, MEUV, UARC  
*Argia difficilis* Selys, 1865: By, Cu, Ma, Me, RIS (1918)  
*Argia dives* Förster, 1914 Me, ICN  
*Argia fissa* Selys, 1865: By, Cu, Qu, VI, RIS (1918), URRUTIA (2005), ANDES, MEUV, MIZA, UARC  
*Argia gerhardi* Calvert, 1909: Cu, Me, RIS (1918), NAVÁS (1935), GARRISON et al. (2003), UMMZ  
*Argia indicatrix* Calvert, 1902: By, Ch, Cu, VI, RIS (1918), KIMMINS (1966), GARRISON et al. (2003), PÉREZ et al. (2007), ANDES, BMNH, UARC, UMMZ  
*Argia infrequentula* Fraser, 1946: Ri, KIMMINS (1966), BMNH  
*Argia jocosa* Hagen in Selys, 1865: RIS (1918)  
*Argia kokama* Calvert, 1909: Ri, KIMMINS (1966), BMNH  
*Argia medullaris* Hagen in Selys, 1865: Cu, GARRISON et al. (2003), UARC, UMMZ  
*Argia oculata* Hagen in Selys, 1865: At, Cu, Ch, Ma, To, RIS (1918), PÉREZ (2003), ANDES, UARC  
*Argia orichalcea* Hagen in Selys, 1865: Ma, RIS (1918), PÉREZ (2003), UARC  
*Argia pulla* Hagen in Selys, 1865: At, By, Ca, Cu, Ch, Ma, Me, Qu, To, PÉREZ (2003) ANDES, MIZA, UARC  
*Argia talamanca* Calvert, 1907: Ma, Me, RIS (1918), PÉREZ (2003), UARC  
*Argia translata* Hagen in Selys, 1865: Ch, Ma, To, RIS (1918), NAVÁS (1935), PÉREZ (2003), ANDES, UARC  
*Argia variabilis* Selys, 1865: Cc, Cu, To, VI, RIS (1918), URRUTIA (2005), MEUV  
*Argia variata* Navás, 1935: GARRISON et al. (2003)

- Argia variegata* Förster, 1914: Ri, KIMMINS (1966), BMNH
- Enallagma civile* (Hagen, 1861): By, Cu, RIS (1918), ANDES, UARC
- Enallagma novaehispaniae* Calvert, 1907: Ma, To, RIS (1918), PÉREZ (2003), ANDES, UARC
- Enallagma praevarum* (Hagen, 1861): Vl, URRUTIA (2005), MEUV
- Homeoura chelifera* (Selys, 1876): An, VON ELLENRIEDER (2008), RWG, UARC
- Homeoura obrieni* von Ellenrieder, 2008: Bo, Ma, Ch, VON ELLENRIEDER (2008), UMMZ
- Ischnura capreolus* (Hagen, 1861): At, Bo, Ce, Co, Cu, Ch, Ma, To, RIS (1918), ANDES, UARC
- Ischnura cruzi* De Marmels, 1987: Cu, VELÁSQUEZ et al. (2009), ANDES, UARC
- Ischnura denticollis* (Burmeister, 1839): Vl, URRUTIA (2005), MEUV
- Ischnura chingaza* Realpe, 2010: Cu, REALPE (2010), ANDES
- Ischnura cyane* Realpe, 2010: By, Cu, REALPE (2010), ANDES
- Ischnura hastata* (Say, 1840): Ch, PÉREZ et al. (2007), ANDES, UARC
- Ischnura indivisa* (Ris, 1918): By, Cu, Qu, RIS (1918), DE MARMELS (2006), MIZA
- Ischnura ramburii* (Selys, 1850): At, Ce, Co, Cu, Ma, Qu, To, Vl, RIS (1918), PÉREZ (2003), URRUTIA (2005), DE MARMELS (2006), ANDES, MEUV, MIZA, UARC
- Leptobasis buchholzi* (Rácenis, 1959): Bo, DONNELLY (1967), GARRISON & VON ELLENRIEDER (2010), RWG
- Leptobasis vacillans* Hagen in Selys, 1877: An, Ch, Vl, GARRISON & VON ELLENRIEDER (2010), TWD, RWG
- Mesamphiagrion demarmelsi* (Cruz, 1986): Cu, CRUZ (1986), VON ELLENRIEDER & GARRISON (2008b), ANDES, RWG, UARC
- Mesamphiagrion laterale* (Selys, 1876): By, Cc, Cu, St, RIS (1918), VON ELLENRIEDER & GARRISON (2008b), ANDES, BMNH, FSCA, MNHN, RWG, TWD, UARC, UMMZ
- Mesamphiagrion occultum* (Ris, 1918): Cu, RIS (1918), VON ELLENRIEDER & GARRISON (2008b), ANDES, RWG, UARC
- Mesamphiagrion ovigerum* (Calvert, 1909): By, Cu, RIS (1918), VON ELLENRIEDER & GARRISON (2008b), DRPC, MCZ, MNHP
- Mesamphiagrion risi* (De Marmels, 1997): Cu, Vl, VON ELLENRIEDER & GARRISON (2008b), ANDES, UARC
- Mesamphiagrion tamaense* (De Marmels, 1988): By, VON ELLENRIEDER & GARRISON (2008b), ANDES, RWG
- Metaleptobasis bicornis* (Selys, 1877): RIS (1918)
- Metaleptobasis foreli* Ris, 1918: RIS (1918)
- Metaleptobasis westfalli* Cumming, 1954: At, UARC

*Metaleptobasis* sp.: Ch, UARC

*Neoerythromma cultellatum* (Hagen in Selys, 1876): At, Me, UARC.

*Oreiallagma oreas* (Ris, 1918): RIS (1918), VON ELLENRIEDER & GARRISON (2008b)

*Oxyagrion miniopsis* Selys, 1876: Cu, RIS (1918), ANDES, UARC

*Telebasis corallina* (Selys, 1876): Me, To, ANDES

*Telebasis digiticollis* Calvert, 1902: Ch, RIS (1918), ANDES

*Telebasis farcimentum* Garrison, 2009: Vl, Qu, GARRISON (2009), FSCA, TWD, MIZA

*Telebasis filiola* (Perty, 1834): At, Bo, Ma, Vl, RIS (1918), BICK & BICK (1995), PÉREZ (2003), URRUTIA (2005), GARRISON (2009), ANDES, MEUV, UARC, RWG

*Telebasis garrisoni* Bick & Bick, 1995: An, Ma, St, BICK & BICK (1995), GARRISON et al. (2003), GARRISON (2009), RWG

*Telebasis garleppi* Ris, 1918: Vl, GARRISON (2009), TWD

*Telebasis griffinii* (Martin, 1896): An, Bo, Ce, Co, BICK & BICK (1995), GARRISON (2009), ANDES, FSCA, RWG, SWD, UARC, UMMZ

*Telebasis isthmica* Calvert, 1902: BICK & BICK (1995), GARRISON (2009)

*Telebasis salva* (Hagen, 1861): At, Bo, Cu, Ma, Qu, Vl, RIS (1918), BICK & BICK (1995), URRUTIA (2005), DE MARMELS (2006), GARRISON (2009), ANDES, MEUV, MIZA, RWG, UARC

*Telebasis versicolor* Fraser, 1946: Pu, Ri, KIMMINS (1966), BICK & BICK (1995), GARRISON (2009), BMNH

*Telebasis williamsoni* Garrison, 2009: GARRISON, (2009), Bo, By, Ce, Co, Ma, Me, ABMM, ICN, RWG, UMMZ

#### A n i s o p t e r a [4 fam, 49 gen., 152 spp.]

AESHNIDAE [9 gen., 24 spp.]

*Allopetalia pustulosa* Selys, 1873: By, Cu, Ma, RIS (1918), PALACINO (2009b), ICN, UARC

*Anax amazili* (Burmeister, 1839): At, Cl, Cu, Qu, To, Vl, RIS (1918), DE MARMELS (2006), PALACINO (2009b), MIZA

*Anax concolor* Brauer, 1865: At, ANDES

*Andaeschna rufipes* (Ris, 1918): RIS (1918)

*Coryphaeschna adnexa* (Hagen, 1861): At, Bo, By, Qu, Me, RIS (1918), HINCKS (1934), PALACINO (2009b), DE MARMELS (2006), ANDES, ICN, MIZA

*Coryphaeschna viriditas* Calvert, 1952: At, Bo, Cu, Me, To, PALACINO (2009b), ICN

*Gynacantha jessei* Williamson, 1923: An, WILLIAMSON (1923), GARRISON et al. (2003), UMMZ

*Gynacantha membranalis* Karsch, 1891: Am, At, Ch, Me, RIS (1918), WILLIAM-

- SON (1923), HINCKS (1934), PÉREZ et al. (2007), PALACINO (2009b), ICN, ANDES
- Gynacantha mexicana* Selys, 1868: Bo, Ch, Ma, VI, WILLIAMSON (1923), PALACINO (2009b), ANDES, ICN, UARC
- Gynacantha nervosa* Rambur, 1842: An, Bo, Cu, Ch, Ma, To, RIS (1918), WILLIAMSON (1923), HINCKS (1934), PÉREZ (2003), PALACINO (2009b), ANDES, MEFLG, UARC
- Gynacantha remartinia* Navás, 1934: Me, To, NAVÁS (1935)
- Gynacantha tenuis* Martin, 1909: An, WILLIAMSON (1923), DE MARMELS (2006)
- Remartinia l. luteipennis* (Burmeister, 1839): Ma, Me, Qu, RIS (1918), CALVERT (1956), DE MARMELS (2006), MIZA
- Rhionaeschna brevicercia* (Muzón & von Ellenrieder, 2001): Cu, St, VON ELLENRIEDER (2003), IRSNB, UMMZ
- Rhionaeschna cornigera* (Brauer, 1865): By, Cu, Ch, Hu, Ma, NS, Ri, To, RIS (1918), VON ELLENRIEDER (2003), PÉREZ (2003), PALACINO (2009a,b), ICN, NMW, UARC, UMMZ
- Rhionaeschna intricata* (Martin, 1908): By, Ma, St, PALACINO (2009b), ICN
- Rhionaeschna joannisi* (Martin, 1897): Cc, VON ELLENRIEDER (2003)
- Rhionaeschna marchali* (Rambur, 1842): Bo, By, Cc, Ce, Cl, Cu, Ch, Hu, Ma, Me, NS, St, To, VI, RIS (1918), NAVÁS (1935), VON ELLENRIEDER (2003), PÉREZ (2003), PALACINO (2009a,b), DRPC, ICN, IRSNB, UARC, USNM
- Rhionaeschna planaltica* (Calvert, 1952): VON ELLENRIEDER (2003)
- Staurophlebia reticulata* (Burmeister, 1839): HINCKS (1934), ANDES
- Triacanthagyna caribbea* Williamson, 1923: An, Bo, Ma, WILLIAMSON (1923), VON ELLENRIEDER & GARRISON (2003), RWG, UMMZ, USNM
- Triacanthagyna ditzleri* Williamson, 1923: An, WILLIAMSON (1923), HINCKS (1934), VON ELLENRIEDER & GARRISON (2003), RWG, UMMZ, USNM
- Triacanthagyna septima* (Selys in Sagra, 1857): At, Bo, Co, Ma, Ll, RIS (1918), WILLIAMSON (1923), DUNKLE (1981), PÉREZ (2003), VON ELLENRIEDER & GARRISON (2003), PALACINO (2009b), ICN, UARC, USNM
- Triacanthagyna trifida* (Rambur, 1842): RIS (1918), WILLIAMSON (1923)

GOMPHIDAE [9 gen., 19 spp.]

- Agriogomphus jessei* (Williamson, 1918): An, WILLIAMSON (1918b), UARC, UMMZ
- Agriogomphus sylvicola* Selys, 1869: Ma, WILLIAMSON (1918c), UMMZ
- Aphylla molossus* Selys, 1869: Cu, To, ANDES
- Aphylla tenuis* Selys, 1859: Ch, RIS (1918)
- Archaeogomphus furcatus* Williamson, 1923: Ma, PÉREZ (2003), UARC
- Archaeogomphus hamatus* (Williamson, 1918): Ma, WILLIAMSON (1919a),

GARRISON et al. (2003), UMMZ

*Desmogomphus paucinervis* (Selys, 1873): Gu, GARRISON et al. (2006), PALACINO (2009b), ICN

*Epigomphus obtusus* Selys, 1869: RIS (1918)

*Epigomphus pechumani* Belle, 1970: BELLE (1970), CUIC

*Erpetogomphus sabaleticus* Williamson, 1918: An, Ma, To, WILLIAMSON (1918b), GARRISON (1994), PÉREZ (2003), UARC, UMMZ

*Phyllocycla anduzei* (Needham, 1943): BELLE (1970), SMF

*Phyllocycla volsella* (Calvert, 1905): Cu, Me, Qu, DE MARMELS (2006), PALACINO (2009b), ICN, MIZA

*Phyllogomphoides cornutifrons* (Needham, 1944): By, ANDES

*Phyllogomphoides insignatus* Donnelly, 1979 An, MEFLG

*Phyllogomphoides semicircularis* (Selys, 1854): Ma, PÉREZ (2003), UARC

*Progomphus abbreviatus* Belle, 1973: Cc, Ma, GARRISON et al. (2003), PÉREZ (2003), UARC, UMMZ

*Progomphus incurvatus bivittatus* De Marmels, 1991: Ma, PÉREZ (2003), UARC

*Progomphus phyllochromus* Ris, 1918: Ma, PÉREZ (2003), UARC

*Progomphus pygmaeus* Selys, 1873: Bo, Ma, Qu, RIS (1918), WILLIAMSON (1920), PÉREZ (2003), DE MARMELS (2006), MIZA, UARC, UMMZ

CORDULIIDAE [1 gen., 1 sp.]

*Neocordulia batesi* (Selys, 1871): Ch, PÉREZ et al. (2007), ANDES, UARC

LIBELLULIDAE [30 gen., 108 spp.]

*Anatya guttata* (Erichson, 1848): At, Bo, By, Cn, Ch, Co, Me, St, To, RIS (1918), PALACINO (2009b), ANDES, MEFLG, UARC

*Brachymesia furcata* (Hagen, 1861): At, ANDES, UARC

*Brachymesia herbida* (Gundlach, 1889): At, By, Ce, Co, Ma, Me, RIS (1918), PALACINO (2009b), ANDES, ICN, MEFLG, UARC

*Brechmorhoga flavopunctata* (Martin, 1897): RIS (1918)

*Brechmorhoga nubecula* (Rambur, 1842): Ch, Ma, CALVERT (1906, 1909), PÉREZ (2003), ANDES, UARC

*Brechmorhoga pertinax* (Hagen, 1861): RIS (1919)

*Brechmorhoga praecox* (Hagen, 1861): Ma, Me, CALVERT (1898, 1909), RIS (1918), PÉREZ (2003), ANDES, UARC

*Brechmorhoga rapax* Calvert, 1898: Ma, Me, RIS (1918), NAVÁS (1935), PÉREZ (2003), ANDES, UARC

*Brechmorhoga vivax* Calvert, 1906: Qu, DE MARMELS (2006), MIZA

*Cannaphila mortoni* Donnelly, 1992: Ch, PÉREZ et al. (2007), ANDES, UARC

*Cannaphila vibex* (Hagen, 1861): By, Cu, Ma, Me, Qu, Ri, Vi, CALVERT (1909), RIS (1918), PÉREZ (2003), DE MARMELS (2006), PALACINO (2009a,b),

- ICN, MEFLG, MIZA, UARC
- Dasythemis esmeralda* Ris, 1910: Ca, Me, Ri, SCHMIDT (1942), PALACINO (2009b)
- Diastatops intensa* Montgomery, 1940: ANDES, UARC
- Diastatops obscura* (Fabricius, 1775): Me, ANDES, UARC
- Dythemis multipunctata* Kirby, 1894: Cn, Cu, Ma, Me, RIS (1918), PÉREZ (2003), PALACINO (2009b), ANDES, ICN, MEFLG, UARC
- Dythemis sterilis* Hagen, 1861: At, Bo, By, Cl, Cu, Ma, To, CALVERT (1906, 1909), RIS (1918), PÉREZ (2003), PALACINO (2009a,b), ANDES, ICN, UARC
- Elasmothemis cannacrioides* (Calvert, 1906): By, Ch, Ma, To, RIS (1918), PÉREZ (2003), PALACINO (2009b), ANDES, ICN, UARC
- Elga leptostyla* Ris, 1909: ANDES, UARC
- Erythemis attala* (Selys in Sagra 1857): At, Cu, RIS (1918), PÉREZ (2003), ANDES, UARC
- Erythemis carmelita* Williamson, 1923: Ma, At, WILLIAMSON (1923), UMMZ, UARC
- Erythemis credula* (Hagen, 1861): Am, Ch, Me, RIS (1918); PÉREZ et al. (2007); PALACINO (2009b), ANDES, UARC
- Erythemis haematogastra* (Burmeister, 1839): At, Bo, By, Ce, Co, Gv, At, Ch, Me, RIS (1918); PALACINO (2009b), ICN, UARC
- Erythemis mithroides* (Brauer, 1900): At, Ch, RIS (1918), PALACINO (2009b), ANDES, UARC
- Erythemis peruviana* (Rambur, 1842): Am, At, Bo, By, Cc, Ce, Co, Ch, Cu, Me, St, To, Vl, RIS (1918), NAVÁS (1935), PALACINO (2009b), ANDES, ICN, MEFLG
- Erythemis plebeja* (Burmeister, 1839): At, Bo, Co, Ma, Me, Qu, RIS (1918), PÉREZ (2003), DE MARMELS (2006), PALACINO (2009b), ICN, MIZA, UARC
- Erythemis vesiculosa* (Fabricius, 1775): Am, At, Bo, Ce, Co, Cl, Cn, Cu, Ch, Hu, Ma, Me, Qu, SA, Su, To, Vl, RIS (1918), PÉREZ (2003), DE MARMELS (2006), PALACINO (2009b), ANDES, ICN, MEFLG, MIZA, UARC
- Erythemis* sp.: At, UARC
- Erythrodiplax abjecta* (Rambur, 1842): Am, By, Cl, Cu, Ma, Me, St, Vl, RIS (1918), BORROR (1942), PAULSON (2003), PÉREZ (2003), PALACINO (2009b), ANDES, ICN, UARC
- Erythrodiplax andagoya* Borrór, 1942: An, Ch, Vl, BORROR (1942), GARRISON et al. (2003), PÉREZ et al. (2007), ANDES, UARC, UMMZ
- Erythrodiplax attenuata* (Kirby, 1889): Am, Me, PALACINO (2009b), ICN
- Erythrodiplax basalis* (Kirby, 1897): Am, An, Co, Ch, Ma, Pu, Vl, RIS (1918), ANDES, UARC
- Erythrodiplax b. berenice* (Drury, 1773): Bo, PALACINO (2009b), ICN

- Erythrodiplax berenice naeva* (Hagen, 1861): Bo, Ma, BORROR (1942),  
*Erythrodiplax castanea* (Burmeister, 1839): Am, An, Bo, Ch, Me, Pu, VI, RIS (1918), BORROR (1942), PÉREZ et al. (2007), PALACINO (2009b), ANDES, ICN, UARC  
*Erythrodiplax cauca* Borrór, 1942: Cc, Qu, BORROR (1942), PAULSON (2003), DE MARMELS (2006), ANDES, MIZA, UMMZ  
*Erythrodiplax connata* (Burmeister, 1839): By, Ca, Cc, Ch, Me, BORROR (1942), PÉREZ et al. (2007), ANDES, UARC  
*Erythrodiplax famula* (Erichson, 1848): Me, RIS (1918)  
*Erythrodiplax fervida* (Erichson, 1848): An, At, Bo, By, Ca, Ce, Co, Ch, Ma, Su, BORROR (1942), PÉREZ (2003), PALACINO (2009b), ICN, UARC  
*Erythrodiplax funerea* (Hagen, 1861): Ma, Na, VI, RIS (1918), PALACINO (2009b), ICN  
*Erythrodiplax fusca* (Rambur, 1842): Am, An, Bo, By, CC, Cu, Ch, Ma, Me, Qu, Ri, St, To, VI, RIS (1918), BORROR (1942), PÉREZ (2003), DE MARMELS (2006), PALACINO (2009b), ANDES, ICN, MIZA, UARC  
*Erythrodiplax ines* Ris, 1911: An, BORROR (1942)  
*Erythrodiplax juliana* Ris, 1911: An, BORROR (1942)  
*Erythrodiplax kimminsi* Borrór, 1942: An, By, Co, Ch, Ma, Me, Pu, St, BORROR (1942), PALACINO (2009b), ANDES, ICN, UARC  
*Erythrodiplax lativittata* Borrór, 1942: An, Ch, PÉREZ et al. (2007), ANDES, UARC  
*Erythrodiplax minuscula* (Rambur, 1842): Me, RIS (1918)  
*Erythrodiplax ochracea* (Burmeister, 1839): Ch, Ma, RIS (1918)  
*Erythrodiplax paraguayensis* (Förster, 1905): To, ANDES, UARC  
*Erythrodiplax umbrata* (Linnaeus, 1758): Am, An, At, Bo, Ca, Cc, Ce, Cl, Cn, Co, Cu, Ch, Ma, Me, Na, Qu, St, Su, To, Vc, VI, RIS (1918), DE MARMELS (2006), PALACINO (2009b), ANDES, ICN, MEFLG, MIZA, UARC  
*Erythrodiplax unimaculata* (De Geer, 1773): Ca, Me, RIS (1918), BORROR (1942), PALACINO (2009b), ICN  
*Erythrodiplax venusta* (Kirby, 1897): Me, RIS (1918)  
*Gynothemis pumila* (Karsch, 1890): Me, CALVERT (1909), RIS (1913)  
*Idiataphe amazonica* (Kirby, 1889): At, ANDES, UARC  
*Idiataphe longipes* (Hagen, 1861): Ch, KIRBY (1889), PÉREZ et al. (2007), ANDES, UARC  
*Libellula herculea* Karsch, 1889: By, Cc, Ma, Me, Qu, Ri, VI, CALVERT (1909), RIS (1918), PÉREZ (2003), DE MARMELS (2006), PALACINO (2009a,b), ANDES, ICN, MEFLG, MIZA, UARC  
*Macrothemis fallax* May, 1998: Ma, PÉREZ (2003), UARC  
*Macrothemis hahneli* Ris, 1913: Pu, RIS (1918), ANDES  
*Macrothemis hemichlora* (Burmeister, 1839): At, Ma, Me, CALVERT (1898, 1906, 1909), RIS (1918)



- Macrothemis imitans leucozona* Ris, 1913: Ch, Qu, DE MARMELS (2006), ANDES, MIZA
- Macrothemis inacuta* Calvert, 1898: Ch, ANDES
- Macrothemis inequiunguis* Calvert, 1895: Ch, CALVERT (1906, 1909), ANDES
- Macrothemis musiva* Calvert, 1898: Me, CALVERT (1898, 1906, 1909), RIS (1918)
- Macrothemis pseudimitans* Calvert, 1898: Cu, Ma, RIS (1918), PÉREZ (2003)
- Macrothemis tessellata* (Burmeister, 1839): RIS (1918)
- Miathyria marcella* (Selys in Sagra 1857): At, Bo, Ce, Co, Ch, Ma, Su, To, Vl, CALVERT (1906, 1909), RIS (1918), PALACINO (2009b), ANDES, ICN, UARC
- Miathyria simplex* (Rambur, 1842): At, Bo, Ma, PÉREZ (2003), PALACINO (2009b), ICN, UARC
- Micrathyria aequalis* (Hagen, 1861): At, Cu, Ma, Qu, St, To, RIS (1918), PÉREZ (2003), DE MARMELS (2006), ANDES, MIZA, UARC
- Micrathyria dictynna* Ris, 1919: At, Ch, PÉREZ et al. (2007), ANDES, UARC
- Micrathyria didyma* (Selys in Sagra 1857): Bo, Cu, St, RIS (1918),
- Micrathyria eximia* Kirby, 1897: RIS (1918)
- Micrathyria laevigata* Calvert, 1909: RIS (1918)
- Micrathyria mengeri* Ris, 1919: An, DUNKLE (1995)
- Micrathyria ocellata* Martin, 1897: At, UARC
- Micrathyria pseudeximia* Westfall, 1992: Me, UARC
- Micrathyria spuria* (Selys, 1900): RIS (1918), ANDES, UARC
- Micrathyria tibialis* Kirby, 1897: By, Bo, Ce, Co, Me, PALACINO (2009b), ICN, UARC
- Nephepeltia flavifrons* (Karsch, 1889): Bo, By, Ca, Co, Me, St, Su, RIS (1918), PALACINO (2009b), ANDES, ICN, UARC
- Nephepeltia phryne* (Perty, 1834): Ch, PÉREZ et al. (2007), ANDES, UARC
- Oligoclada heliophila* Borrer, 1931: Ma, GARRISON et al. (2003), UMMZ
- Oligoclada umbricola* Borrer, 1931: St, PALACINO (2009b), ICN
- Orthemis attenuata* (Erichson, 1848): Ma, VON ELLENRIEDER (2009), RWG
- Orthemis aequilibris* Calvert, 1909: Me, RIS (1918)
- Orthemis biolleyi* Calvert, 1906: Bo, By, Me, RIS (1918), PALACINO (2009b), ICN
- Orthemis cultriformis* Calvert, 1899: Am, Ch, Me, St, RIS (1918), PÉREZ et al. (2007), PALACINO (2009b), ANDES, ICN, UARC
- Orthemis discolor* (Burmeister, 1839): Am, At, By, Cu, Ch, Gu, Ma, Me, Qu, Ri, St, To, CALVERT (1909), PÉREZ (2003), DE MARMELS (2006), PALACINO (2009a, 2009b), ANDES, ICN, MIZA, UARC
- Pantala flavescens* (Fabricius, 1798): At, Ce, Cn, Cu, Ch, Ma, Me, NS, Qu, St, To, Vc, Vl, CALVERT (1906, 1909), RIS (1918), PÉREZ (2003), DE MARMELS

- (2006), PALACINO (2009b), ANDES, ICN, MEFLG, MIZA, UARC
- Pantala hymenaea* (Say, 1840): Bo, Cu, Ch, Ma, Me, To, CALVERT (1906, 1909), RIS (1918), PALACINO (2009b), ICN, UARC
- Perithemis domitia* (Drury, 1773): Bo, Ch, Ma, To, RIS (1918, 1930), PÉREZ (2003), ANDES, UARC
- Perithemis electra* Ris, 1930: Ch, Ma, RIS (1930), ANDES, UARC
- Perithemis lais* (Perty, 1834): Co, Ch, Ma, Me, RIS (1930), PALACINO (2009b), ANDES, ICN, UARC
- Perithemis mooma* Kirby, 1889: At, Bo, By, Co, Cu, Ma, Me, Na, Qu, To, RIS (1930), PÉREZ (2003), DE MARMELS (2006), PALACINO (2009a), ANDES, ICN, MIZA, UARC
- Perithemis tenera* (Say, 1840): Ch, PÉREZ et al. (2007), ANDES
- Planiplax phoenicura* Ris, 1912: At, ANDES, UARC
- Rhodopygia cardinalis* (Erichson, 1848): Ca, Me, BELLE (1998), PALACINO (2009b), ANDES, ICN, UARC
- Sympetrum gilvum* (Selys, 1884): By, Cc, Cu, Ma, VI, PÉREZ (2003), PALACINO (2009b), ANDES, ICN, UARC
- Sympetrum illotum* (Hagen, 1861): By, RIS (1918)
- Tauriphila australis* (Hagen, 1867): At, Bo, Cu, Ma, CALVERT (1906, 1909), RIS (1918), PALACINO (2009b), ICN
- Tholymis citrina* Hagen, 1867: Am, At, Ch, Co, Ma, Me, To, CALVERT (1906), RIS (1918), DUNKLE (1981), PÉREZ (2003), PALACINO (2009b), ANDES, ICN, UARC
- Tramea abdominalis* (Rambur, 1842): RIS (1913), ANDES, UARC,
- Tramea binotata* (Rambur, 1842): Ch, VI, RIS (1918), PÉREZ et al. (2007), ANDES, UARC
- Tramea calverti* Muttkowski, 1910: At, Bo, Cl, Cu, Ch, Ma, Me, Qu, Su, PÉREZ (2003), DE MARMELS (2006), MIZA
- Tramea cophysa* Hagen, 1867: Me, CALVERT (1906, 1909), RIS (1918), ANDES
- Tramea rustica* De Marmels & Rácenis, 1982: Ma, Me, To, DE MARMELS & RÁCENIS (1982), PALACINO (2009b).
- Uracis fastigiata* (Burmeister, 1839): Am, Ch, Me, Na, St, Ris (1918), Pérez et al. (2007), PALACINO (2009b), ANDES, ICN, MEFLG, UARC
- Uracis imbuta* (Burmeister, 1839): Am, Bo, By, Ca, Cl, Cn, Co, Cu, Ch, Gu, Gv, Me, Pu, Ri, St, To, VI, RIS (1918), PÉREZ et al. (2007), PALACINO (2009a, 2009b), ANDES, ICN, MEFLG, UARC
- Uracis infumata* (Rambur, 1842): Am, Ca, PALACINO (2009b), ICN
- Uracis siemensi* Kirby, 1897: PALACINO (2009b), ICN
- Zenithoptera fasciata* (Linnaeus, 1758): Ca, Co, Ch, Me, St, RIS (1918), PÉREZ et al. (2007), PALACINO (2009b), ANDES, MEFLG
- Zenithoptera viola* Ris, 1910: Co, PALACINO (2009b), ICN

COMMENTS ON THE LIST

Fifty percent of the species reported from the country were registered between 1898 and 1928 for the first time (Fig. 2), largely by NAVÁS (1935) and the Williamson brothers as a result of their expedition with the University of Michigan to Colombia (see WILLIAMSON 1918a, 1918b, 1918c, 1919a, 1919b, 1920, 1923). Almost 70 years later work on odonates from Colombia was resumed, and during the last 20 years there has been a significant increase in taxonomic studies by Colombian researchers, although unfortunately most have not been published yet.

A comprehensive review of the collections deposited in academic institutions in Colombia from key regions of the country may lead us to quickly recognize a much larger number of species for the country.

The best known regions regarding the Odonata diversity in Colombia include the departments of Atlántico, Bolívar, and Magdalena in the Caribbean region, and the departments of Cundinamarca, Boyacá, and Meta in the Andean region. However, it is necessary to increase sampling in other regions such as the departments of Guainía, Vaupés, and Guaviare, which are completely unexplored as regards to odonates, and where many undescribed species may be found. We make a special call to study these regions strategically, emphasizing taxonomic studies in national parks and nature reserves.

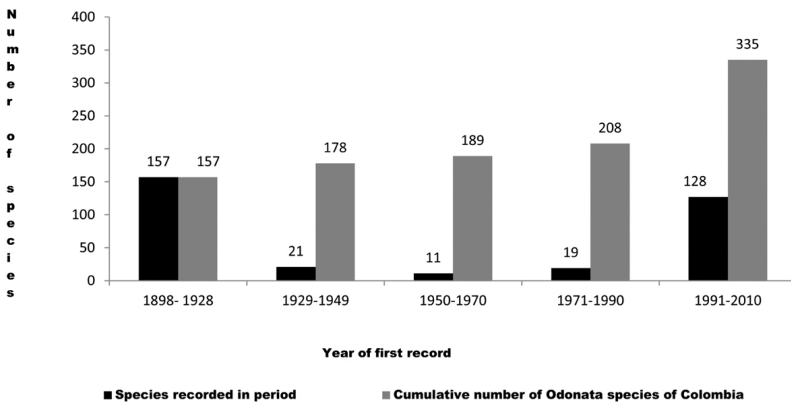


Fig. 2. Histogram showing the number of Odonata species known to occur in Colombia in the periods of thirty and twenty years.

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