

AN UPDATED CHECKLIST OF THE ODONATA FROM ARGENTINA

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An updated checklist of the Odonata spp. known to occur in Argentina is presented along with distributional information by province. 27 spp. are removed from previous listings, and 32 new records are added, bringing the total number of spp. to 271. Of the new records, 14 correspond to new spp. currently under description. The distribution of the 17 species presently known to be endemic to Argentina is mapped.

INTRODUCTION

Our previous list from Argentina (MUZÓN & VON ELLENRIEDER, 1998) included 261 species, both described and undescribed. Although only seven new species occurring in Argentina have been described since then, several names mentioned earlier correspond to old records based on misidentified specimens. Numerous new records have been found during the last few years, and many genera of our fauna have been recently revised making it necessary to update the list in order to reflect the current name changes and synonymies.

All species mentioned in the current listing are either represented in a collection and were examined by us, or their occurrence in Argentina has been reliably demonstrated.

SPECIES TO BE DELETED FROM THE ARGENTINE CHECKLIST

The previous records of the following 27 species were either based on misidentifications or mislabeled material, or have been shown to represent synonyms of other species:

Hetaerina caja dominula Hagen in Selys, 1853

FRASER (1948) recorded this species from Argentina based on a male from Misiones province.

According to the latest revision of this genus (GARRISON, 1990) the distribution area of *H. caja* does not reach S South America, and given the great similarity of *H. caja* with *H. rosea* this record is attributed to *H. rosea*.

Allopodagrion macropus (Selys, 1862)

Argentine records correspond to a new species (*Teinopodagrion meridionale* De Marmels, 2001).

Peristicta misionera Jurzitza, 1981

Synonymized with *P. aeneoviridis* by PESSACQ (2007)

Acanthagrion ascendens Calvert, 1909

Previous Argentine records correspond to a new species (*A. aepiolum* Tennessen, 2004).

Acanthagrion leonardi Jurzitza, 1980

Considered a synonym of *A. cuyabae* (LENCIONI, 2006)

Argia clausenii Selys, 1865

It was mentioned without locality for Argentina by LENCIONI (2006), but the record could not be verified and is considered here incorrect.

Argia euphorbia Fraser, 1946

It was mentioned without locality for Argentina by LENCIONI (2006), but the record could not be verified and is considered here incorrect.

Argia pulla Hagen in Selys, 1865

This species was mentioned without locality for Argentina by FRASER (1948); that record was most likely based on a mislabeled specimen, since its known distribution ranges from Mexico to Ecuador and N Brazil (R. W. Garrison, pers. comm.)

Oxyagrion evanescens Calvert, 1909

It was mentioned without locality for Argentina by LENCIONI (2006), but the record could not be verified and is considered here incorrect.

Oxyagrion microstigma Selys, 1876

It was mentioned without locality for Argentina by LENCIONI (2006), but the record could not be verified and is considered here incorrect.

Phyllopetalia stictica Hagen in Selys, 1858

Record from Argentina corresponds to a misidentified specimen of *P. pudu* according to VON ELLENRIEDER (2005)

Anax longipes Hagen, 1861

Record based on misidentified *Anax concolor* according to VON ELLENRIEDER (2001)

Castoraeschna castor (Brauer, 1865)

Record based on misidentified *C. januarua* according to VON ELLENRIEDER (2001)

Limnetron debile (Karsch, 1891)

Record from Argentina based on *L. antarcticum* (examined material from Misiones province)

Rhionaeschna elsia (Calvert, 1952)

Record based on misidentification according to VON ELLENRIEDER (2003)

Rhionaeschna intricata (Martin, 1908)

Record based on misidentification according to MUZÓN & VON ELLENRIEDER (2001)

Triacanthagyna trifida (Rambur, 1842)

Records based on misidentified *T. nympa* according to VON ELLENRIEDER & GARRISON (2003)

Phyllocycla diphylla Selys, 1854

Record of *Cyclophylla argentina diphylla* from Argentina by FRASER (1947) corresponds to *Phyllocycla argentina* according to BELLE (1988)

Progomphus recticarinatus Calvert, 1909

Record based on misidentified *P. complicatus* according to VON ELLENRIEDER & GARRISON (2008)

Zonophora calippus spectabilis Campion, 1920

Record introduced in error by NEEDHAM (1944) according to BELLE (1983)

Gomphomacromia etcheverryi Fraser, 1957

Synonymized with *G. paradoxa* by VON ELLENRIEDER & GARRISON (2005)

Dythemis sterilis Hagen, 1861

Old record probably in error (FRASER, 1947), since this species is distributed in N South America (Venezuela, Colombia, Ecuador, Peru)

Dythemis velox Hagen, 1861

Record from FRASER (1947) in error; specimen identified as such by him at FML corresponds to a female of *D. multipunctata*

Erythemis haematogastra (Burmeister, 1839)

It was mentioned without locality for Buenos Aires by RODRIGUES CAPÍTULO (1992), but the record could not be verified and is considered here incorrect.

Macrodiplax balteata (Hagen, 1861)

Record probably based on a mislabeled specimen, since this species has never been found south to Venezuela (GARRISON et al., 2006)

Micrathyria didyma (Selys, 1857)

Records based on misidentified *M. venezuelae* (VON ELLENRIEDER & GARRISON, 2008) and *M. hypodidyma*

Perithemis waltheri Ris, 1910

Synonymized with *P. icteropectera* by VON ELLENRIEDER & MUZÓN (1999)

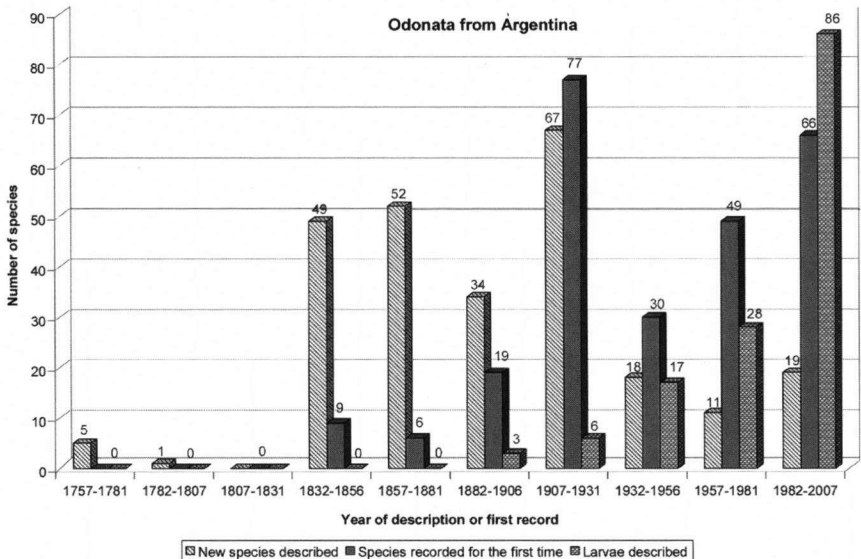


Fig. 1. Histogram showing number of Odonata species known to occur in Argentina in periods of 25 years: per year of description, first record from Argentina, and larval description.

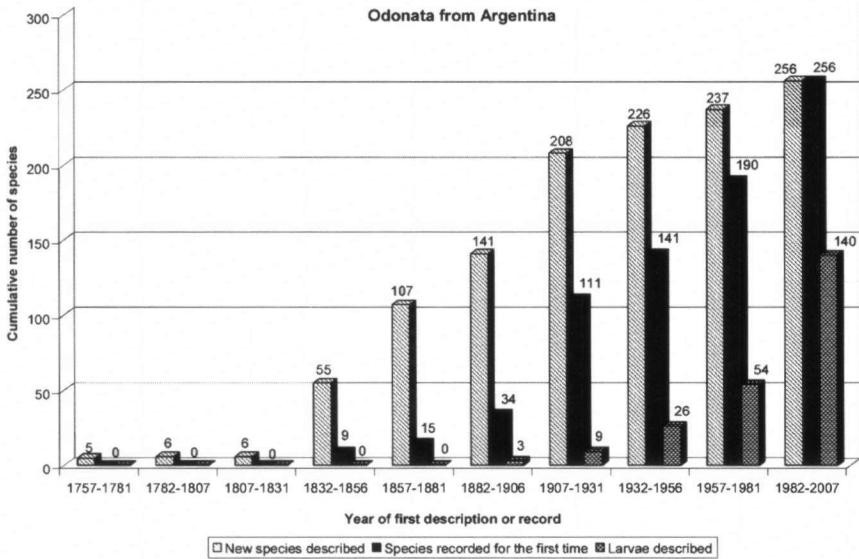


Fig. 2. Histogram showing cumulative number of Odonata species known to occur in Argentina in periods of 25 years: per year of description, first record from Argentina, and larval description.

UPDATED CHECKLIST

Our current list includes 256 species described up to December 2006. Although the rate of description of new species occurring in Argentina has been low during the last century, with over half of its odonates already described at the beginning of the 1900's (Figs 1-2), there are still new species being discovered, of which we currently know of 14, bringing the total of known species to 271.

A major development over the last few decades has been an increase in the knowledge of the larval stage, which is crucial for the development of regional programs for conservation and management of wetlands. Approximately two thirds of the known larvae have been described during the last 25 years, and about half of them during the last 8 years (Fig. 2). At present, the last larval instar of approximately 53% of the Argentine species is known (Fig. 2).

CHECKLIST OF THE ODONATA OF ARGENTINA

Undescribed species are listed at the end of each family, marked by \emptyset ; - (L): Larva described; - (∇): New record for a province; - (O): New record for Argentina; - (E): Endemic to Argentina.

Province names (see also Fig. 3): BA: Buenos Aires; - Ca: Catamarca; - Cb: Córdoba; - CH: Chaco; - Co: Corrientes; - Cu: Chubut; - ER: Entre Ríos; - Fo: Formosa; - Ju: Jujuy; - LP: La Pampa; - LR: La Rioja; - Me: Mendoza; - Mi: Misiones; - Ne: Neuquén; - RN: Río Ne-

gro; – Sa: Salta; – SJ: San Juan; – SL: San Luis; – SC: Santa Cruz; – SF: Santa Fe; – SE: Santiago del Estero; – TF: Tierra del Fuego; – Tu: Tucumán.

ZYGOPTERA [8 fam, 28 gen, 100 spp.] 41 L
 DICTERIADIDAE [1 gen, 1 sp] 1 L
Heliocharis amazona Selys, 1853 Mi, SF[∇] (L)

CALOPTERYGIDAE [2 gen, 10 spp.] 2 L
Hetaerina longipes Hagen in Selys, 1853 Mi
Hetaerina mendezii Jurzitza, 1982 Mi (L)
Hetaerina proxima Selys, 1853 Mi
Hetaerina rosea Selys, 1853 Sa, Ju, Tu, Mi, Co,
 Cb, SE, ER, BA (L)
Hetaerina sanguinea Selys, 1853 Sa
Mnesarete grisea (Ris, 1918) Sa, Ju, Tu, Ca, LR
 (L)
Mnesarete guttifera (Selys, 1873) Mi
Mnesarete lencionii Garrison, 2006 Mi ○
Mnesarete pruinosa (Hagen in Selys, 1853) Mi
Mnesarete pudica pudica (Hagen in Selys, 1853)
 Mi

LESTIDAE [2 gen, 10 spp.] 7 L
Archilestes exoletus (Hagen in Selys, 1862) Mi
Lestes auritus Hagen in Selys, 1862 Mi
Lestes bipupillatus Calvert, 1909 Mi, Ch (L)
Lestes dichrostigma Calvert, 1909 Sa, Ju, Mi,
 Co[∇] (L)
Lestes forficula Rambur, 1842 Sa, Ju, Mi, SF
 (L)
Lestes paulistus Calvert, 1909 Mi, Co[∇]
Lestes pictus Hagen in Selys, 1862 Sa, Ju, Mi,
 Co[∇] (L)
Lestes spatula Fraser, 1946 Sa, Ca[∇], Mi, Co, Ch,
 SE, ER, BA (L)
Lestes tricolor Erichson, 1848 Mi (L)
Lestes undulatus Say, 1839 Me, RN, ER, BA (L)

MEGAPODAGRIONIDAE [3 gen, 6 spp.] 2 L
Allopodagrion brachyurum De Marmels, 2001
 Mi ○
Allopodagrion contortum (Hagen in Selys, 1862)
 Mi
Allopodagrion erinys Ris, 1913 Mi [E]
Heteragrion aurantiacum Selys, 1862 Mi (L)
Heteragrion triangulare Hagen in Selys, 1862 Mi
Teinopodagrion meridionale De Marmels, 2001
 Sa, Ju, Tu, Ca[∇] (L)

PSEUDOSTIGMATIDAE [1 gen, 3 spp.] 3 L
Mecistogaster amalia (Burmeister, 1839) Mi

Mecistogaster lucretia lucretia (Drury, 1773) Mi
Mecistogaster ornata ornata Rambur, 1842 Sa[∇],
 Ju (L)

POLYTHORIDAE [1 gen, 1 sp]
Chalcopteryx rutilans (Rambur, 1842) Mi ○

PROTONEURIDAE [3 gen, 11 spp.] 2 L
Neoneura bilinearis Selys, 1860 Sa ○
Neoneura ethela Williamson, 1917 Mi, Co[∇],
 ER[∇]
Neoneura fulvicollis Selys, 1886 Mi
Neoneura sylvatica Hagen in Selys, 1886 Mi
Neoneura waltheri Selys, 1886 Mi
Peristicta aeneoviridis Calvert, 1909 Mi, Co[∇],
 ER (L)
Peristicta forceps Calvert, 1909 Mi, Co, ER, BA
 (L)
Peristicta lizeria Navás, 1920 BA
 ◇ Protoneuridae sp. Co
 ◇ *Epipleoneura* sp. 1 Mi
 ◇ *Epipleoneura* sp. 2 ER

COENAGRIONIDAE [15 gen, 58 spp.] 24 L
Acanthagrion ablutum Calvert, 1909 Sa, Ju, Tu,
 Ca, LR, SL, Mi, Cb (L)
Acanthagrion aepiolium Tennessen, 2004 Sa[∇],
 Mi, Co[∇], ER (L)
Acanthagrion cuyabae Calvert, 1909 Mi, Fo[∇],
 Co[∇], ER
Acanthagrion gracile (Rambur, 1842) Mi, Co, ER
Acanthagrion hildegarda Gloer, 1967 Mi, Cb,
 SF, ER, BA (L)
Acanthagrion lancea Selys, 1876 Sa, Ju, Tu, Ch,
 Mi, Co, ER, SF, BA
Acanthagrion minutum Leonard, 1977 Co ○
Acanthagrion peruvianum Leonard, 1977 Sa[∇],
 Ju[∇], Tu, SE, Cb[∇]
Acanthagrion temporale Selys, 1876 Mi
Aeolagrion inca (Selys, 1876) Fo ○
Andinagrion garrisoni von Ellenrieder & Muzón,
 2006 Sa, Ju, Tu (L) [E]
Andinagrion peterseni (Ris, 1908) Sa, Tu, Ca, Me,
 BA, Ne, RN, Cu[∇] (L) [E]
Andinagrion saliceti (Ris, 1904) BA
Antiagrion grinbergi Jurzitza, 1974 Ne
Argia albistigma Hagen in Selys, 1865 Mi, ER[∇]
Argia croceipennis Selys, 1865 Mi

- Argia hasemani* Calvert, 1909 Mi
Argia joergenseni Ris, 1913 Sa, Ju, Tu, Ca, SJ, SL, Cb (L)
Argia jujuya Ris, 1913 Sa, Ju, Tu, Ca[∇] [E]
Argia lilacina Selys, 1865 Mi
Argia mollis Hagen in Selys, 1865 Mi
Argia reclusa Selys, 1865 Mi
Argia serva Hagen in Selys, 1865 Mi
Argia translata Hagen in Selys, 1865 Sa[∇], Ju (L)
Argia yungensis Garrison & von Ellenrieder, 2007 Sa, Ju
Cyanallagma bonariense (Ris, 1913) Cb[∇], ER, BA (L)
Cyanallagma interruptum (Selys, 1876) Me, Ne, RN, Cu, SC (L)
Cyanallagma nigrinuchale (Selys, 1876) Mi
Enallagma novaehispaniae Calvert, 1907 Sa, Ju, SE (L)
Helveciagrion obsoletum (Selys, 1876) Fo, Mi, Co ◊
Helveciagrion simulacrum (Calvert, 1909) Co ◊
Homeoura ambigua (Ris, 1904) Sa[∇], Tu, Fo, Ch, Mi, Co, SF, ER, BA (L)
Homeoura chelifera (Selys, 1876) Sa, Ju[∇], Tu, Fo, Ch, Mi, Co, ER, SF, BA (L)
Homeoura lindneri (Ris, 1928) Co[∇], Ch, ER[∇], SF, BA
Ischnura capreolus (Hagen, 1861) Sa, Ju, Tu[∇], Mi, Co, ER, SF, BA (L)
Ischnura fluviatilis Selys, 1876 Sa, Ju, Tu, Ca, Fo, Ch, Mi, Co, ER, SE, Cb, SF, BA, LR, SJ, Me, Ne, RN (L)
Ischnura ultima Ris, 1908 Sa, Ju, Tu, Me, Cb (L) [E]
Oxyagrion basale Selys, 1876 Mi (L)
Oxyagrion brevistigma Selys, 1876 Mi
Oxyagrion bruchi Navás, 1924 Sa[∇], Ju[∇], Tu[∇], Cb (L)
Oxyagrion chapadense Costa, 1978 Mi, Co, Cb, BA (L)
Oxyagrion hempeli Calvert, 1909 Mi, Cb, BA (L)
Oxyagrion rubidum (Rambur, 1842) Sa, Ju, Co[∇], ER, SE, Cb, SF, BA, Me, Ne, RN, Cu (L)
Oxyagrion terminale Selys, 1876 Mi, Co, ER, SF, BA (L)
Protallagma titicacae (Calvert, 1909) Sa[∇], Ju (L)
Telebasis carmesina Calvert, 1909 Sa, Mi
Telebasis carminita Calvert, 1909 SF
Telebasis inalata (Calvert, 1961) Ju ◊
Telebasis limoncocha Bick & Bick, 1995 Sa[∇], Ju[∇], Mi, Co[∇], ER[∇]
Telebasis theodori (Navás, 1934) Mi
Telebasis willinki Fraser, 1948 Sa[∇], Ju[∇], Tu, Co[∇], Fo, Ch, SF, BA (L)
Tigriagrion aurantigrum Calvert, 1909 Sa, Mi
 ◊ *Acanthagrion* sp. Co
 ◊ *Ischnura* sp. Me
 ◊ *Leptagrion* sp. Mi
 ◊ *Telebasis* sp. Co
 ◊ *Coenagrionidae* sp. Co
- ANISOPTERA [7 fam, 50 gen, 172 spp] 100 L
 PETALURIDAE [1 gen, 1 sp] 1 L
Phenes raptor Rambur, 1842 Ne (L)
- AUSTROPETALIIDAE [1 gen, 1 sp]
Phyllopetalia pudu Dunkle, 1985 Ne, RN[∇]
- AESHNIDAE [10 gen, 28 spp] 20 L
Anax amazili (Burmeister, 1839) Sa, Tu[∇], Mi, Co, Ch[∇], SE[∇], SF, ER, BA, LP[∇] (L)
Anax concolor Brauer, 1865 Mi (L)
Andaeschna rufipes (Ris, 1918) Ju (L)
Castoraeschna decurvata Dunkle & Cook, 1984 Cb, ER (L) [E]
Castoraeschna januaria (Hagen, 1867) Mi
Coryphaeschna adnexa (Hagen, 1861) Sa, Ju[∇], Tu[∇], Mi, Co, Ch, SF[∇], ER[∇] (L)
Coryphaeschna perrensi (McLachlan, 1887) Ju, Mi, Co, Cb[∇], SF, BA[∇] (L)
Gynacantha adela Martin, 1909 Sa[∇], Ju, Mi
Gynacantha bifida Rambur, 1842 Ju, Tu[∇], Mi, Co, SF, BA[∇] (L)
Gynacantha convergens Förster, 1908 Ju
Gynacantha gracilis (Burmeister, 1839) Mi (L)
Limnetron antarcticum Förster, 1907 Mi
Remartinia luteipennis luteipennis (Burmeister, 1839) Sa, Ju, Mi (L)
Rhionaeschna absoluta (Calvert, 1952): Sa, Ju[∇], Tu[∇], Ca[∇], LR[∇], Me, SJ[∇], SE[∇], Cb[∇], SF[∇], ER[∇], BA[∇], LP[∇], Ne, RN, Cu, SC (L)
Rhionaeschna bonariensis (Rambur, 1842) Sa, Ju, Tu, Ca, LR, SJ, Ch, Fo[∇], Mi, Co, ER, SF, SE, Cb, BA, Me, RN (L)
Rhionaeschna confusa (Rambur, 1842) Tu[∇], Mi, ER, SF, Cb, Me, BA (L)
Rhionaeschna diffinis (Rambur, 1842) Ne, RN, Cu (L)

- Rhionaeschna fissifrons* (Muzón & von Ellenrieder, 2001) Sa, Ca
Rhionaeschna haarupi (Ris, 1908) Sa, Tu, Ca[∇], Me [E]
Rhionaeschna pallipes (Fraser, 1947) Sa, Tu, Ca, LR[∇], Cb, SF[∇], Me[∇], BA (L) [E]
Rhionaeschna planaltica (Calvert, 1952) Sa, Ju, Tu, Ca, Mi, Cb, BA[∇] (L)
Rhionaeschna psilus (Calvert, 1947) Sa (L)
Rhionaeschna variegata Fabricius, 1775 Sa[∇], Ju[∇], Tu, Ca[∇], Me, Ne, Rn, Cu, SC, TF[∇] (L)
Rhionaeschna vigintipunctata (Ris, 1918) Sa, Ju, Tu, Ca, LR[∇]
Staurophebia bosqi Navás, 1927 BA (L) [E]
Staurophebia reticulata reticulata (Burmeister, 1839) Mi, Co[∇] (L)
Triacanthagyna nympha (Navás, 1933) Mi, Co, BA (L)
 ♠ *Limnetron* sp. Sa, Ju
- GOMPHIDAE [11 gen, 29 spp.] 15 L
Aphylla dentata Selys, 1859 SF, ER, BA (L)
Aphylla distinguenda (Campion, 1920) Mi, BA
Aphylla producta Selys, 1854 Sa, Mi, Co[∇], SE (L)
Aphylla theodorina (Navás, 1933) Mi, Co[∇] (L)
Archaeogomphus densus Belle, 1982 Mi
Cyanogomphus waltheri Selys, 1873 Mi
Epigomphus paludosus Hagen in Selys, 1854 Mi, SE (L)
Gomphoides praevia St. Quentin, 1967 Mi
Neogomphus edenticulatus Carle & Cook, 1984 Ne, Cu (L)
Neogomphus molestus (Hagen in Selys, 1854) Ne, Cu (L)
Phyllocyca argentina (Hagen in Selys, 1878) Sa, Ju[∇], Mi, Co, Cb, SF, BA (L)
Phyllocyca basidenta Dunkle, 1987 Sa, Ju[∇]
Phyllocyca propinqua Belle, 1972 Mi (L)
Phyllocyca vesta Belle, 1972 BA [E]
Phyllocyca viridipleuris (Calvert, 1909) Sa, Mi, ER (L)
Phyllogomphoides andromeda (Selys, 1869) Mi (L)
Phyllogomphoides joaquina Rodrigues Capitulo, 1992 BA (L) [E]
Progomphus aberrans Belle, 1973 Mi, Co[∇], Cb, ER[∇]
Progomphus auropictus Ris, 1911 Mi [E]
Progomphus australis Belle, 1973 ER [E]
Progomphus basistictus Ris, 1911 Mi
Progomphus complicatus Selys, 1854 Sa, Ju[∇], Tu[∇], Mi (L)
Progomphus joergenseni Ris, 1908 Sa, Tu, Ca, SJ[∇], Cb, Me, Ne, RN [E]
Progomphus kimminsi Belle, 1973 Sa, Ju, Tu
Progomphus lepidus Ris, 1911 Mi (L)
Progomphus phyllochromus Ris, 1918 Sa, Ju, Tu (L)
Tibiagomphus noval (Rodrigues Capitulo, 1985) ER (L) [E]
Tibiagomphus uncatus (Fraser, 1947) Mi, ER
Zonophora diversa Belle, 1983 Mi
- NEOPETALIIDAE [1 gen, 1 sp] 1 L
Neopetalia punctata (Hagen in Selys, 1854) Ne (L)
- CORDULIIDAE [3 gen, 5 spp] 2 L
Gomphomacromia fallax McLachlan, 1881 Sa
 ○
Gomphomacromia nodisticta Ris, 1928 Sa, Ca [E]
Gomphomacromia paradoxa Brauer, 1864 Ne, RN[∇], Cu (L)
Neocordulia setifera (Hagen in Selys, 1871) Mi (L)
Rialla villosa (Rambur, 1842) Ne, RN, Cu (L)
- LIBELLULIDAE [23 gen, 107 spp] 65 L
Brachymesia furcata (Hagen, 1861) Sa, Tu[∇], Mi, Co, ER, SE (L)
Brachymesia herbida (Gundlach, 1889) Mi, Co[∇] (L)
Brechmorhoga nubecula (Rambur, 1842) Sa, Ju, Mi (L)
Brechmorhoga praedatrix Calvert, 1909 Mi (L)
Brechmorhoga vivax Calvert, 1906 Sa, Ju, Tu, Mi (L)
Cannaphila vibex (Hagen, 1861) Sa, Ju, Tu, Ca (L)
Dasythemis mincki clara Ris, 1908 Sa, SL[∇], Cb, ER, RN (L)
Dasythemis mincki mincki (Karsch, 1890) Mi (L)
Dasythemis venosa (Burmeister, 1839) Mi (L)
Diastatops intensa Montgomery, 1940 Mi, Co[∇], Cb, ER[∇]
Diastatops obscura (Fabricius, 1775) Mi, Co[∇], Cb (L)

- Diastatops pullata* (Burmeister, 1839) Co, Ch, SF, BA[∇] (L)
- Dythemis multipunctata multipunctata* Kirby, 1894 Sa[∇], Ju, Tu[∇], SL, Mi, BA (L)
- Edonis helena* Needham, 1905 Co
- Elasmothemis cannacrioides* (Calvert, 1906) Sa, Ju, Tu[∇], Mi (L)
- Elasmothemis constricta* (Calvert, 1898) Mi (L)
- Erythemis attala* (Selys, 1857) Sa, Ju, Fo, Mi, Co, Ch, SF, ER, BA (L)
- Erythemis credula* (Hagen, 1861) Co (L)
- Erythemis mithroides* (Brauer, 1900) Mi[∇], Co, Fo[∇], Cb, SF (L)
- Erythemis peruviana* (Rambur, 1842) Mi, Co, Fo[∇], Ch, ER (L)
- Erythemis plebeja* (Burmeister, 1839) Sa, Tu[∇], Fo[∇], Ch, Mi, Co, ER, SE, SF, BA (L)
- Erythemis vesiculosa* (Fabricius, 1775) Sa, Ju, Tu, Mi, Co, Fo[∇], Cb, SE, SF, BA (L)
- Erythrodiplax anomala* (Brauer, 1865) Mi, BA (L)
- Erythrodiplax atroterminata* Ris, 1911 Sa, Mi, Co, Ca, SJ, SL, Cb, BA, RN
- Erythrodiplax basalis* (Kirby, 1897) Mi, SE[∇] (L)
- Erythrodiplax castanea* (Burmeister, 1839) Mi
- Erythrodiplax chromoptera* Borrer, 1942 Mi, Co[∇]
- Erythrodiplax connata* (Burmeister, 1839) Ne, RN, Cu
- Erythrodiplax corallina* (Brauer, 1865) Sa, Ju[∇], Tu, Ca[∇], LR[∇], SJ[∇], Me[∇], Co[∇], SE, Cb, LP, BA, Ne, RN, Cu
- Erythrodiplax fumula* (Erichson, 1848) Mi
- Erythrodiplax fusca* (Rambur, 1842) Mi, Co, Ch[∇], ER, SF, BA (L)
- Erythrodiplax juliana* Ris, 1911 Mi, ER (L)
- Erythrodiplax latimaculata* Ris, 1911 Mi (L)
- Erythrodiplax lativittata* Borrer, 1942 Mi
- Erythrodiplax lygaea* Ris, 1911 Mi (L)
- Erythrodiplax media* Borrer, 1942 Sa[∇], Ju, Tu[∇], Mi, Co[∇], ER[∇], RN[∇]
- Erythrodiplax melanorubra* Borrer, 1942 Sa[∇], Ju[∇], Tu[∇], Mi, Co[∇], ER, SE[∇], BA (L)
- Erythrodiplax nigricans* (Rambur, 1842) Mi, Co, ER, Ch, SE, Ca, LR, Me, SF, BA, Ne, RN (L)
- Erythrodiplax ochracea* (Burmeister, 1839) Mi, Co, Fo, Ch, SF, BA, Ne (L)
- Erythrodiplax paraguayensis* (Förster, 1905) Mi, Co, ER, Fo[∇], Ch, Cb, BA (L)
- Erythrodiplax umbrata* (Linnaeus, 1758) Sa, Ju, Tu, Fo, Ch, Mi, Co, ER, SF, Ca, LR, BA (L)
- Idiatopha longipes* (Hagen, 1861) Co ○
- Libellula herculea* Karsch, 1889 Sa[∇], Ju, Mi (L)
- Macrothemis declivata* Calvert, 1909 Mi
- Macrothemis hemichlora* (Burmeister, 1839) Mi
- Macrothemis heteronycha* (Calvert, 1909) Co
- Macrothemis hahneli* Ris, 1913 Sa, Ju, Tu ○ (L)
- Macrothemis imitans imitans* Karsch, 1890 Sa, Ju, Tu[∇], Ca[∇], Mi, Co[∇], SE[∇], ER, Cb
- Macrothemis inacuta* Calvert, 1898 Sa, Fo ○ (L)
- Macrothemis marmorata* Hagen, 1868 Mi
- Macrothemis musiva* Calvert, 1898 Mi, Sa[∇] (L)
- Macrothemis polynœura* Ris, 1913 Mi
- Macrothemis tenuis* Hagen, 1868 Mi
- Macrothemis tessellata* (Burmeister, 1839) Mi, BA (L)
- Miathyria marcella* (Selys, 1857) Sa, Tu[∇], LR[∇], Fo, Ch, Mi, Co, ER, SE, SF, BA (L)
- Micrathyria artemis* Ris, 1911 Mi (L)
- Micrathyria athenais* Calvert, 1909 Mi, ER
- Micrathyria atra* (Martin, 1897) Mi, Sa[∇] (L)
- Micrathyria catenata* Calvert, 1909 Sa[∇], Ju, Mi, Co
- Micrathyria debilis* (Hagen, 1861) ER, SF
- Micrathyria dido* Ris, 1911 Mi
- Micrathyria eximia* Kirby, 1897 Co[∇]
- Micrathyria hesperis* Ris, 1911 Sa, Tu, Ch[∇], Mi, Co, ER, SE (L)
- Micrathyria hypodidyma* Calvert, 1906 Sa[∇], Ju, Tu[∇], Fo[∇], Ch, Mi, Co, ER, BA (L)
- Micrathyria longifasciata* Calvert, 1909 Sa, Ju, Tu, Fo[∇], Ch, Co, ER, SF, SE, ME, BA (L)
- Micrathyria ocellata dentiens* Calvert, 1909 Sa, Ju (L)
- Micrathyria pseudeximia* Westfall, 1992 Co ○
- Micrathyria ringueleti* Rodrigues Capitulo, 1988 BA (L)
- Micrathyria spuria* (Selys, 1900) Co[∇], ER (L)
- Micrathyria tibialis* Kirby, 1897 Fo[∇], Co[∇] (L)
- Micrathyria unguolata* Förster, 1907 Sa, Ju[∇], Mi, ER, Cb[∇], SL[∇], BA (L)
- Micrathyria venezuelae* De Marmels, 1989 Sa, Ju ○
- Nephepeltia aequisetis* Calvert, 1909 Fo, Co ○
- Nephepeltia flavifrons* (Karsch, 1889) Co
- Nephepeltia phryne phryne* (Perty, 1834) Mi (L)
- Oligoclada haywardi* Fraser, 1947 Mi [E]
- Oligoclada laetiitia* Ris, 1911 Fo[∇], Mi, ER[∇] (L)

- Orthemis aequilibris* Calvert, 1909 Sa [○](L)
Orthemis ambinigra Calvert, 1909 Mi, Co[∇], BA
Orthemis ambirufa Calvert, 1909 Mi, Co, ER
Orthemis cultriformis Calvert, 1899 Mi
Orthemis discolor (Burmeister, 1839) Sa, Ju[∨], Tu, Ca[∇], Cha, Mi, Co, SF, SL, Me, BA
Orthemis nodiplaga Karsch, 1891 Sa, Tu, Ca[∨], Fo[∇], Ch, Mi, Co, ER, SE[∇], SF, SL, Me, BA (L)
Pantala flavescens (Fabricius, 1798) Sa, Ju, Tu, Ca[∇], Fo[∇], Mi, Co, ER, SF, SL, Me, BA (L)
Pantala hymenaea (Say, 1839) Tu, Ca, LR[∨], Mi[∨], Me (L)
Perithemis icteroptera (Selys, 1857) Sa[∇], Mi[∇], ER, BA (L)
Perithemis lais (Perty, 1834) Mi, Co[∇]
Perithemis mooma Kirby, 1889 Sa, Ju, Tu, Mi, Co, ER, Cb, SE, SF, BA (L)
Perithemis thais Kirby, 1889 Mi (L)
Planiplax erythropyga (Karsch, 1891) ER, BA
Sympetrum gilvum (Selys, 1884) Sa, Ju, Tu, Ca[∇], SL[∇], Cb (L)
Sympetrum villosum Ris, 1911 Ne, RN, Cu (L)
Tauriphila argo (Hagen, 1869) Mi, Co (L)
Tauriphila risi Martin, 1896 Tu[∇], Ch[∇], Co, ER, SF, SE, Cb, BA (L)
Tauriphila xiphea Ris, 1913 Co
Tholymis citrina Hagen, 1867 Sa, Ju[∇], Tu[∇] (L)
Tramea abdominalis (Rambur, 1842) Sa, Ju, Mi (L)
Tramea binotata (Rambur, 1842) Sa, Mi, Co (L)
Tramea calverti Muttkowski, 1910 Sa[∨], Ju, Ca, Mi, Co (L)
Tramea cophysa Hagen, 1867 Sa, Tu[∨], Ca, Fo[∨], Mi, Co, ER, SE, BA (L)
Tramea rustica De Marmels & Rácenis, 1982 Mi
Uracis imbuta (Burmeister, 1839) Mi[∇], BA
Zenithoptera lanei Santos, 1941 Mi
 ◇ *Erythrodiplax* sp.1 Co, ER
 ◇ *Erythrodiplax* sp. 2 Sa, Ju, Tu, Ca, LR
 ◇ *Micrathyria* sp. 1 Co
 ◇ *Micrathyria* sp. 2 Sa

DISTRIBUTIONAL DATA

Field work during the last few years has been carried out mainly in the NE (Corrientes and Entre Rios provinces) and NW (Salta and Jujuy provinces), with the discovery of numerous new records. The best known areas correspond to Buenos Aires province, Patagonia (southern half of the country N to Mendoza and La Pampa), NE Argentina, including Misiones, Corrientes and Entre Rios provinces, and NW Argentina, encompassing Jujuy, Salta and Tucumán provinces. There are still several areas that have been very poorly sampled, including the provinces of Formosa, Chaco, La Pampa and San Juan, and some others that were sampled only partially, such as Catamarca, La Rioja, San Luis, Córdoba, Santiago del Estero and Santa Fe provinces (Fig. 3).

Although Argentina is a large country (2,780,400 km²) the number of resident odonate species is relatively low compared to other neotropical countries (equal to that of Costa Rica, much smaller in size; RAMIREZ et al., 2000), because much of its territory is included in a region that is either temperate and cold or relatively dry. Its richest areas are found in the northern subtropical provinces (Fig. 3), which house over two thirds of the total number of species, most of them widely distributed in the Neotropical region and reaching their southern limit of distribution in Argentina. Although the odonates found in the southern half of the country comprise just a few species (35 recorded for Patagonia; MUZÓN et al., 2005), they are of particular interest because they include many endemic to S



Fig. 3. Map of Argentina, showing provinces with code used in checklist and number of odonate species known to occur per province indicated in parenthesis.

Chile and SW Argentina (families Austropetaliidae, Neopetaliidae, Petaluridae, genera *Antiagrion*, *Neogomphus* and *Rialla*), and several of them show affinities to taxa from Australia and New Zealand.

There are 17 species so far known to occur only in Argentina, and for which five areas of endemism can be identified (Fig. 4): (1) Misiones province (*Allopodagrion erinys* Ris, 1913, *Progomphus auropictus* Ris, 1911, *Oligoclada haywardi* Fraser, 1947); (2) NW provinces of Jujuy, Salta, Tucuman and Catamarca (*Andinagrion garrisoni* von Ellenrieder & Muzón, 2006, *Argia jujuya* Ris, 1913, *Gomphomacromia nodisticta* Ris, 1928); (3) E slope of the Andes and hill and plateau systems of the N half of the country south to Buenos Aires and Rio Negro provinces (*Andinagrion peterseni* (Ris, 1908), *Ischnura ultima* Ris, 1908, *Rhionaeschna haarupi* (Ris, 1908), *Rhionaeschna pallipes* (Fraser, 1947), *Progomphus joergenseni* Ris, 1908); (4) Córdoba and Entre Rios provinces (*Castoraeschna decurvata* Dunkle & Cook, 1984), and (5) Delta of the Paraná river in Entre Rios and Buenos Aires provinces (*Phyllocycla vesta* Belle, 1972, *Phyllogomphoides joaquina* Rodrigues Capítulo, 1992, *Progomphus australis* Belle, 1973, *Tibiagomphus noval* (Rodrigues Capítulo, 1985), *Staurophlebia bosqi* Navás, 1927). These five areas agree partially with the biogeographical divisions proposed for Argentina (CABRERA & WILLINK, 1980; MORRONE, 1999). Area 1 would be enclosed in the Parane province, area 4 in the Espinal province, and area 5 in the Pampean province, but areas 2 and 3 extend over more than one biogeographical province (Fig. 4). Of the endemic species, *Allopodagrion erinys* and *Oligoclada haywardi* are known only from their original descriptions, and *Staurophlebia bosqi*, *Phyllocycla vesta*, *Progomphus auropictus*, *Progomphus australis* and *Tibiagomphus noval* are known only from restricted areas (MUZÓN & VON ELLENRIEDER, 1999).

This updated checklist is still preliminary, as prospecting for odonates in both unknown and in relatively well known areas will most likely reveal new records and new species for Argentina, and several new species are already currently being described. In spite of the considerable advances observed during recent years, the larval stage of almost half of the species remains unknown, and much more research is needed in order to describe them and thus allow for construction of reliable keys.

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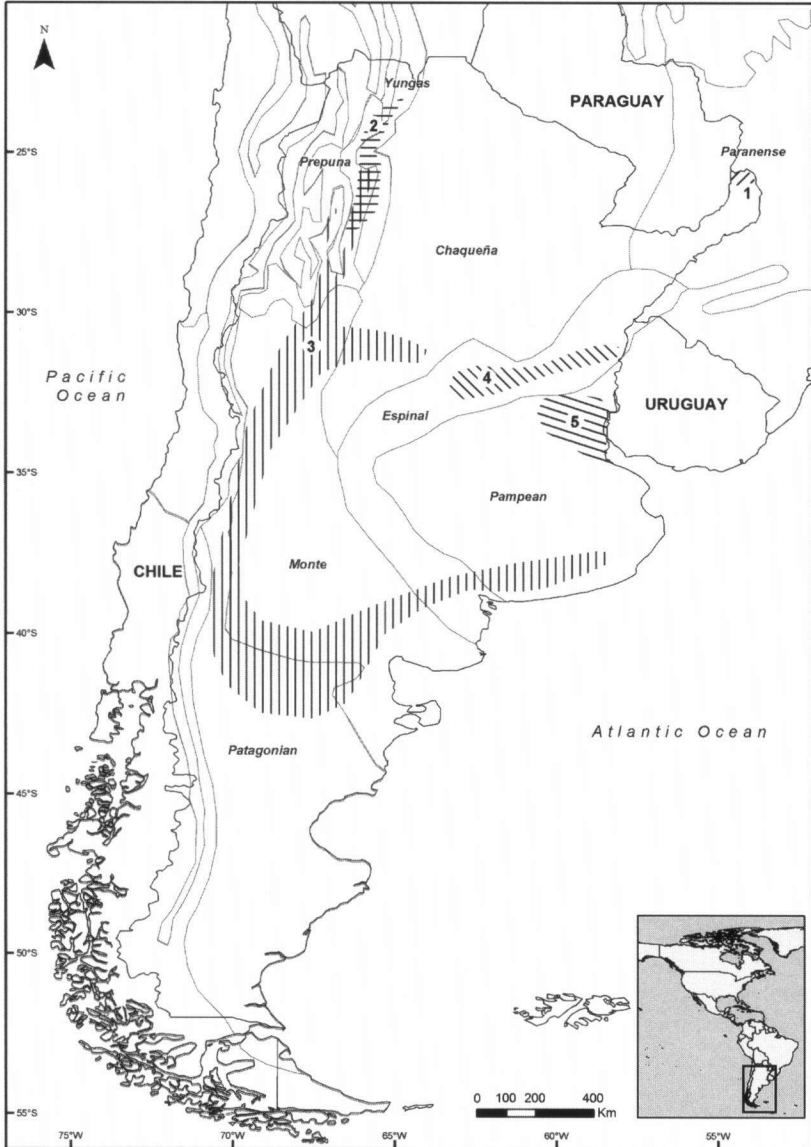


Fig. 4. Map of Argentina, showing five areas (hatched) with endemic species: 1. for *Allopodagrion erinus*, *Progomphus auropicus*, *Oligoclada haywardi*, 2. for *Andinagrion garrisoni*, *Argia jujuya*, *Gomphomacromia nodisticta*, 3. for *Andinagrion peterseni*, *Ischnura ultima*, *Rhionaeschna haarupi*, *Rhionaeschna pallipes*, *Progomphus joergenseni*, 4. for *Castoraeschna decurvata*, and 5. for *Phyllocycla vesta*, *Phyllogomphoides joaquina*, *Progomphus australis*, *Tibiagomphus noval*, *Staurophebia bosqi*. Grey outline: biogeographic provinces.

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