

ODONATA OF CRISTALINO

A preliminary list by Stephen Boddington
(March 2019)



Phyllogomphoides sp.

The Cristalino Private Natural Heritage Reserve, in northern Mato Grosso, is an area of extreme alphabiodiversity and, arguably, one of the most thoroughly studied regions in the whole of Amazonia, with a bird list in excess of 600 species, as well as detailed and ongoing studies of the butterflies, mammals, reptiles, fishes, flora and fungi.

There has, however, and as far as I can tell, been no research so far into the odonata of the area, the only records available being casual observations made by a handful of naturalists who have published their pictures online. As a result, aside from a few, widespread and easily-identified species, nobody really knows which species occur and, indeed, the reserve no doubt harbours a number of undescribed species waiting to be discovered.

A detailed inventory including the collection of specimens is well overdue, therefore, but until this is undertaken, I have decided to compile this preliminary list of species/genera already reported within the reserve.

I am no expert and inclusion in this list should not be interpreted as a confirmation of the identifications made. It is rather a compilation of the various sources available aimed at consolidating the records obtained thus far in order to serve as a starting point for further, detailed studies as well as to assist the casual observer in identifying some of the more commonly observed species, at least to family level.

In the following, systematic list, each identification is followed by a series of abbreviations referring to the sources used, the full details of which can be found at the end of this document. In general, those species followed by the most abbreviations can be regarded as the commonest or at the very least the most easily identified, since they have been reported by multiple observers.

ZYGOPTERA (Damselfies)

Lestidae

Lestes dichrostigma (iNat/JvB)

Lestes pictus (iNat)

Lestes sp (iNat/JvB)

Calopterygidae

(Hetaerina amazonica expected per JvB)

(Hetaerina auripennis expected per JvB)

(Hetaerina brightwelli expected per JvB)

(Hetaerina curvicauda expected per JvB)

(Hetaerina indepressa expected per JvB)

(Hetaerina laesa expected per JvB)

Hetaerina moribunda (iNat/JvB)

(Hetaerina mortua expected per JvB)

(Hetaerina occisa possible per JvB)

Hetaerina proxima (Obs)

(Hetaerina westfalli expected per JvB)

Hetaerina sp (iNat/JvB/MR)

Dicteriadidae

Heliocharis amazona (iNat/Obs/JvB)

Heteragrionidae

Heteragrion bariai/icterops (JvB)

Oxystigma sp (JvB)

Megapodagrionidae

Megapodagrion sp (JvB)

Polythoridae

Chalcopteryx rutilans (iNat)

Coenagrionidae

Acanthagrion chararum (iNat)

Acanthagrion sp (iNat/JvB/MR)

Argia elliptica? (JvB)

Argia oculata (iNat)

Argia thespis (iNat/JvB)

Argia sp (iNat/JvB)

Austrotepuibasis manolisi (iNat/JvB/MR/Obs)
Epiploneura westfalli (iNat)
Epiploneura sp (undescribed?) (JvB/MR)
Homeoura nepos (JvB)
Ischnura sp (JvB)
Mecistogaster linearis (iNat/JvB)
Mecistogaster lucretia (JvB/MR)
Mecistogaster ornata (iNat/JvB)
Metaleptobasis sp (iNat/JvB)
Microstigma sp (iNat/JvB)
Neoneura sp (JvB)
Phoenicagrion flammeum (iNat/JvB/MR)
Platystigma buckleyi (iNat/JvB)
Protoneura paucinervis (JvB)
Protoneura sp (JvB)
Telebasis sp (iNat/JvB)
Tuberculobasis inversa (MR)

ANISOPTERA (Dragonflies)

Gomphidae

Aphylla theodorina (JvB)
Aphylla sp (iNat/JvB)
Cacoides latro (iNat/JvB)
Phyllogomphoides sp (iNat)
Progomphus intricatus? (JvB)
Progomphus sp (iNat/MR)

Aeshnidae

Gynacantha gracilis (iNat/Obs/JvB)
Gynacantha membranalis (iNat)
Gynacantha mexicana (JvB)
Gynacantha nervosa (iNat/JvB)
Neuraeshna harpya (iNat)
Staurophlebia sp (iNat/JvB/Obs)
Triacanthagyna ditzleri (iNat)
Triacanthagyna septima (iNat)
Triacanthagyna sp (iNat/JvB)

Libellulidae

Anatya guttata (iNat/JvB/MR/Obs)
Brachymesia herbida (JvB)
Cannaphila sp (iNat)
Dasythemis sp? (JvB)
Diastatops obscura (iNat/JvB)
Diastatops pullata (iNat)
Diastatops sp (iNat/JvB)
Elasmothemis cannacrioides (JvB)
Erythemis attala (JvB)
Erythemis haematogastra (iNat)
Erythemis mithroides (iNat)
Erythemis plebeja (JvB)
Erythemis vesiculosa (iNat/JvB/Obs)
Erythrodiplax attenuata (JvB/MR/Obs)
Erythrodiplax basalis (JvB)
Erythrodiplax castanea (JvB)
Erythrodiplax fusca (iNat/JvB)
Erythrodiplax latimaculata (JvB)
Erythrodiplax lativittata (JvB)
Erythrodiplax longitudinalis (iNat)
Erythrodiplax melanorubra (JvB)
Erythrodiplax ochracea (iNat)
Erythrodiplax umbrata (iNat/JvB/Obs)
Erythrodiplax unimaculata (iNat/JvB)
Erythrodiplax sp (iNat/JvB)
Fylgia amazonica (JvB)
Miathyria marcella (JvB)
Miathyria simplex (JvB)
Micrathyria atra (iNat/MR)
Micrathyria mengeri (JvB/Obs)
Micrathyria spinifera (JvB)
Micrathyria sp (iNat/JvB/MR)
Misagra parana? (JvB)
Oligoclada abbreviata (iNat)
Oligoclada sp (iNat/JvB/MR)
Orthemis aequilibris (iNat/JvB/MR/Obs)
Orthemis ambirufa (JvB/Obs)
Orthemis attenuata (iNat/JvB/MR/Obs)
Orthemis biolleyi (iNat/JvB)

Orthemis cultriformis (iNat)
Orthemis discolor (iNat/JvB/Obs)
Orthemis flavopicta (iNat)
Orthemis regalis (iNat)
Orthemis schmidti (iNat/JvB/MR)
Orthemis sp (iNat/JvB/MR)
Perithemis electra (iNat)
Perithemis lais (iNat/JvB/MR/Obs)
Perithemis sp (iNat)
Planiplax arachne (JvB)
Planiplax phoenicura (JvB)
Rhodopygia cardinalis (iNat/MR)
Rhodopygia sp (iNat/JvB)
Tholymis citrina (iNat/JvB/Obs)
Tramea sp (iNat)
Uracis fastigiata (iNat/JvB/Obs)
Uracis imbuta (iNat/JvB/Obs)
Uracis infumata (iNat/JvB/MR)
Uracis oviposatrix (iNat/JvB/MR)
Uracis siemensii (iNat)
Uracis sp (iNat/JvB)
Zenithoptera fasciata (JvB)
Zenithoptera lanei (Obs)
Zenithoptera sp (iNat)

Key to abbreviations/references

iNat = <https://www.inaturalist.org/observations> (using the tag Cristalino Jungle Lodge)

JvB = http://www.pbase.com/johanvantbosch/dragonflies_of_cristalino_and_alta_floresta

MR = <http://www.martinreid.com/Odonata%20website/odonateBR08.html>

Obs = https://observation.org/gebiet/species_list/34377

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The study of South American odonata still seems to be in its infancy, with very little identification material available, making identification to species level extremely difficult, especially in such a remote area as this. I hope, therefore, that this list contributes a small step towards plugging the gap in our knowledge of this fascinating, beautiful and easily-observed group of insects, at least as far as the Cristalino Private Natural Heritage Reserve is concerned. Finally, I would also like to express my gratitude to Dona Vitoria da Riva Carvalho for preserving this area of primary rainforest, thus protecting it and its amazing biodiversity from deforestation, and to Alexandre da Riva. Thanks to them, I have had the privilege of spending almost two years in this amazing part of the Amazon, where one never quite knows what to expect and where a lot more remains to be discovered.

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Useful resources

<https://www.pugetsound.edu/academics/academic-resources/slater-museum/biodiversity-resources/dragonflies/south-american-odonata/>

<http://libellules-guyane.net/>