



Taxonomic revisions of some Neotropical Zygoptera (Odonata)

ROSSER GARRISON^{1,2} & NATALIA VON ELLENRIEDER^{1,3}

¹Plant Pest Diagnostics Center, California Department of Food & Agriculture, 3294 Meadowview Road, Sacramento, CA 95832-1448, U. S. A.

²Research Associate

✉ argiavivida@gmail.com; <https://orcid.org/0000-0001-8586-2723>

³Senior Insect Biosystematist

✉ natalia.ellenrieder@gmail.com; <https://orcid.org/0000-0002-1159-2019>

Table of contents

Abstract	1
Resumen	2
Introduction	2
Material and methods	3
Proposed taxonomic changes	3
<i>Lestes debellardi</i> De Marmels, 1992	3
<i>Lestes scalaris</i> Gundlach, 1888	6
<i>Palaemnema brevignoni</i> Machet, 1990	6
<i>Hetaerina duplex</i> Selys, 1853	8
<i>Hetaerina longipes</i> Hagen in Selys, 1853	8
<i>Mnesarete guttifera</i> (Selys, 1873)	10
<i>Acanthagrion obsoletum</i> (Förster, 1914)	10
<i>Ischnura sobrina</i> Schmidt, 1943	13
<i>Leptagrion</i> Selys, 1876	14
<i>Leptagrion macrurum</i> (Burmeister, 1839)	14
<i>Oxyagrion ablutum</i> (Calvert, 1909)	22
<i>Telebasis</i> Selys, 1865	26
<i>Tepuibasis</i> De Marmels, 2007	30
<i>Tepuibasis demarmelsi</i> (Machado & Lencioni, 2011). New combination	32
Possible synonyms pending further study	34
<i>Philogenia carrillica</i> Calvert, 1907	34
<i>Leptagrion andromache</i> Hagen in Selys, 1876	34
<i>Phoenicagrion flammeum</i> (Selys, 1876)	36
<i>Tuberculosbasis croceum</i> (Burmeister, 1839). New combination	36
Incertae sedis	38
<i>Agrion rufovittatum</i> Blanchard, 1846	38
Discussion	38
Acknowledgments	39
References	39

Abstract

We provide updated synonymies for various genera and species of Neotropical Zygoptera based on examination of specimens and literature accompanied by justifications and supported by illustrations. The following generic synonyms are proposed: *Austrotepuibasis* Machado & Lencioni, 2011 and *Pseudotepuibasis* Stand-Pérez & Pérez-Gutiérrez, 2020 are junior synonyms of *Tepuibasis* De Marmels, 2007; *Fredyagrion* Lencioni, 2022, *Kiautagrion* Lencioni, 2022, *Nathaliagrion* Lencioni, 2022, and *Machadagrion* Lencioni, 2022 are junior synonyms of *Leptagrion* Selys, 1876; *Juenagrion* Lencioni, 2023 is a junior synonym of *Telebasis* Selys, 1865. The following specific synonyms are proposed: *Lestes fernandoi* Costa, Souza & Muzón, 2006 is a junior synonym of *Lestes debellardi* De Marmels, 1992; *Lestes tikalus* Kormondy, 1959 is a junior synonym of *Lestes scalaris* Gundlach, 1888; *Palaemnema brasiliensis* Machado,