



<http://dx.doi.org/10.11646/zootaxa.3994.3.9>

<http://zoobank.org/urn:lsid:zoobank.org:pub:8A6FEB7D-1496-4780-BA2D-C0389231E396>

New records of *Anacroneuria* Klapálek, 1909 (Plecoptera: Perlidae) for Central America

PABLO E. GUTIÉRREZ-FONSECA¹, AURA M. ALONSO-RODRÍGUEZ², AYDEÉ CORNEJO³, ANNA CRISTINA BAILEY⁴, JEAN-MICHEL MAES⁵ & ALONSO RAMÍREZ⁶

¹Department of Biology, University of Puerto Rico Rio Piedras, San Juan, Puerto Rico 00931. E-mail: gutifp@gmail.com

²Tropical Agricultural Research and Higher Education Center (CATIE), Turrialba, Costa Rica. Current Address: Fundación Puertorriqueña de Conservación, San Juan, Puerto Rico 00936-2495. E-mail: aurapr15@gmail.com

³Instituto Conmemorativo Gorgas de Estudios de la Salud. Entre Justo Arosemena y Calle 35. Ciudad de Panamá, República de Panamá. E-mail: acornejo@gorgas.gob.pa

⁴Facultad de Ciencias Ambientales y Agrícolas, Universidad Rafael Landívar, Ciudad de Guatemala, Guatemala. E-mail: acbailey@url.edu.gt

⁵Museo Entomológico de León, A.P. 527, León, Nicaragua. E-mail: jmmaes@ibw.com.ni

⁶Department of Environmental Science, University of Puerto Rico Rio Piedras, San Juan, Puerto Rico 00931. E-mail: aramirez@ramirezlab.net

Abstract

The perlid genus *Anacroneuria* is the most widely distributed stonefly occurring in the Neotropics. Regional studies of this genus were made early in the last century, whereas local taxonomic and distributional studies have recently increased. In this study, we provide new Central American records for four species of *Anacroneuria*. *Anacroneuria choco* Stark & Bersosa 2006, *A. costana* (Navás 1924), *A. hacha* Stark 1998, and *A. laru* Gutiérrez-Fonseca 2015 are newly reported including new range extensions.

Key words: Costa Rica, Guatemala, Nicaragua, Panamá, stonefly, taxonomy

Resumen

Anacroneuria es el género de la familia Perlidae más ampliamente distribuido en el Neotrópico. Estudios regionales sobre este género fueron realizados a inicios del siglo pasado, mientras que recientemente han incrementado los estudios locales sobre su taxonomía y distribución. En este estudio proporcionamos nuevos registros geográficos para cuatro especies de *Anacroneuria* dentro de Centroamérica. *Anacroneuria choco* Stark & Bersosa 2006, *A. costana* (Navás 1924), *A. hacha* Stark 1998, y *A. laru* Gutiérrez-Fonseca 2015 se reportan con una nueva distribución geográfica para la región.

Palabras claves: Costa Rica, Guatemala, Nicaragua, Panamá, plecópteros, taxonomía

Introduction

In Central America, studies on the taxonomy and distribution of the perlid genus *Anacroneuria* were conducted extensively early in the last century by Klapálek (1922, 1923), Needham and Broughton (1927) and Jewett (1958). However, descriptions of many of those species were based only on external morphology and color patterns, which required subsequent revisions. Much of the older material was redescribed, certain taxa were proposed as synonyms and new distributions were reported for many species (Zwick 1972). Recently, Stark and Kondratieff (2004) and Stark (2014) described new species and indicated new geographical ranges for Central American and México.