

## Two new species of *Choroterpes* Eaton (Ephemeroptera: Leptophlebiidae) from Costa Rica

SOCORRO ÁVILA A.<sup>1</sup> & R. WILLS FLOWERS<sup>2\*</sup>

<sup>1</sup>Instituto Nacional de Biodiversidad, Apdo. 22-3100, Santo Domingo de Heredia, Costa Rica, C.A.  
E-mail: savila@inbio.ac.cr

<sup>2</sup>Center for Biological Control, Florida A&M University, Tallahassee, FL 32307 USA.  
E-mail: rflowers7@earthlink.net

\*Corresponding author

### Abstract

*Choroterpes gregoryi* **new species** (type locality: Maquenco, Costa Rica) and *Choroterpes mairena* **new species** (type locality: Cuajiniquil, Costa Rica) (Ephemeroptera: Leptophlebiidae: Atalophlebiinae) are described from imagos and nymphs. Both species occur along the west coast of Costa Rica in streams on or near the Nicoya Complex. *Choroterpes mairena* is adapted to living in temporary streams with long dry seasons, while *Choroterpes gregoryi* is found in permanent streams. Both species occur in pools with extensive leaf packs.

**Key words:** *Choroterpes*, Ephemeroptera, Leptophlebiidae, Osa, Nicoya, Santa Elena, new species, temporary streams, biogeography

### Resumen

Se describen de imagos y ninfas *Choroterpes gregoryi* **especie nueva** (localidad tipo: Maquenco, Costa Rica) y *Choroterpes mairena* **especie nueva** (localidad tipo: Cuajiniquil, Costa Rica) (Ephemeroptera: Leptophlebiidae: Atalophlebiinae). Ambas especies viven a lo largo de la costa oeste de Costa Rica, en quebradas cerca y encima del Complejo de Nicoya. *Choroterpes mairena* está adaptada para vivir en quebradas temporales con las épocas secas largas, mientras que *Choroterpes gregoryi* se encuentra en quebradas permanentes. Ambas especies se encuentran en charcos con empaques extensivas de hojas.

### Introduction

In the Western Hemisphere, the cosmopolitan genus *Choroterpes* Eaton is known from