

## New records and combinations for Neotropical Leptophlebiidae (Ephemeroptera)

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### Abstract

Several species of Leptophlebiidae (Atalophlebiinae) from South and Central America are given new generic combinations based on improved knowledge of the Leptophlebiidae of the region. These are: *Tikuna bilineata* (Needham & Murphy, 1924, *Choroerpes*) **comb. n.**; *Terpides vinculum* (Traver, 1947, *Choroerpes*) **comb. n.**; *Hermanella costalis* (Navás, 1934, *Thraulius*) **comb. n.**; *Ulmeritoides haarupi* (Esben-Petersen, 1912, *Thraulius*) **comb. n.** (synonyms *Deleatidium vittatum*, Thew, 1960 **syn. n.** and *Ulmeritoides fidalgoi* Domínguez, 1995 **syn. n.**). In addition, we give new distribution records for *Tikuna bilineata*, report *Choroerpes* from Colombia, and describe *Hagenulus marshalli* **sp. n.** from Ecuador based on two male imagoes. *Hagenulus marshalli* **sp. n.** can be distinguished from other members of the genus by the asymmetrical fork of MP (small cross vein present) and the short, slightly twisted penes without apical spines. These are the first confirmed records for *Choroerpes*, *Tikuna* and *Hagenulus* from continental South America, extending *Hagenulus* from the Greater Antilles into Ecuador, *Choroerpes* from Central America into Colombia, and *Tikuna* from Costa Rica into Brazil, Colombia, Ecuador, Surinam and Venezuela.

**Key words:** Ephemeroptera, Leptophlebiidae, Neotropics, Atalophlebiinae, *Hagenulus*, *Hermanella*, *Choroerpes*, *Terpides*, *Tikuna*, *Ulmeritoides*

### Introduction

Recent collaborative research has clarified the answers to a number of small, but important, questions on the systematics of the Leptophlebiidae of South America. We take this opportunity to consolidate this information and make it available in one place, thereby laying the groundwork for further studies. This paper includes new generic combinations