



Article

urn:lsid:zoobank.org:pub:9BB67C73-5090-42B1-906D-84A3E05296A7

New species and new records of *Camelobaetidius* Demoulin, 1966 (Ephemeroptera: Baetidae) from Southeastern Brazil

R. BOLDRINI^{1,5}, A.M.O. PES², C.N. FRANCISCHETTI³ & F.F. SALLES⁴

¹*Divisão de Curso de Entomologia (DCEN), Instituto Nacional de Pesquisas da Amazônia (INPA), CEP 69060-001, Manaus, AM, Brazil. E-mail: rafaelboldrini@yahoo.com.br*

²*Coordenação de pesquisa em Entomologia (CPEN), Instituto Nacional de Pesquisas da Amazônia (INPA), CEP 69060-001, Manaus, AM, Brazil. E-mail: anampes@gmail.com*

³*Núcleo Descentralizado de Vigilância em Saúde da Região Metropolitana 1, Superintendência de Vigilância em Saúde, Secretaria Estadual de Saúde do Rio de Janeiro, Nova Iguaçu, RJ, Brazil, E-mail: cnfrancischetti@gmail.com*

⁴*Laboratório de Sistemática e Ecologia de Insetos, Depto. de Ciências Agrárias e Biológicas, Universidade Federal do Espírito Santo, CEP 29.933-415, São Mateus, ES, Brazil. E-mail: ffsalles@gmail.com*

⁵*Corresponding Author. rafaelboldrini@yahoo.com.br*

Abstract

The genus *Camelobaetidius* Demoulin, 1966 has 37 species distributed throughout the Nearctic and Neotropical Regions, being one of the most studied genera of the family Baetidae. The nymphs are common in lotic habitats, can often be found on top of rocks, and can be easily recognized by the presence of the spatulate tarsal claws. Based on material from Southeastern Brazil, the aim of the present paper is to describe two new species with the terminal filament as long as the cerci (*C. juparana* sp. nov. and *C. spinosus* sp. nov.), to describe the female of *C. anubis* (Traver & Edmunds, 1968), to describe new characters for the male of this species, and to present new records for the genus in southeastern Brazil.

Key words: Taxonomy, Macroinvertebrate, South America, Neotropics

Introduction

The Southeastern Region of Brazil, represented by the states of Rio de Janeiro, Espírito Santo, Minas Gerais, and São Paulo, is one of the most studied areas of the country regarding mayflies (Ephemeroptera) (Salles *et al.* 2004a). Despite this fact, several species or even genera have yet to be described from the region, notably from the families Baetidae, Leptophlebiidae and Leptohyphidae.

After examination of several nymphs of Baetidae from this area, as a part of the project “Baetidae (Insecta: Ephemeroptera) from Southeastern Brazil” two new species of the genus *Camelobaetidius* Demoulin, 1966 have been found. This genus is comprised currently of 37 species, with 33 species based on nymphs and four species based on adults (Lugo-Ortiz & McCafferty, 1999; Jacobus & McCafferty, 2005; Salles & Serrão, 2005; Domínguez *et al.*, 2006; Boldrini & Salles, 2009; Salles & Nascimento, 2009), and it is distributed from Argentina (Traver & Edmunds, 1968) to Canada (Lehmkuhl, 1976). The genus achieves its greatest diversity in Brazil, where 18 species have been reported until now (Salles & Serrão, 2005; Boldrini & Salles, 2009; Falcão *et al.*, 2011).

Besides the description of the new species, the goals of the present paper are to describe the female imago of *C. anubis* (Traver & Edmunds, 1968), to add new characters to the description of the male imago of this species, and to provide new records for two species from Southeastern Brazil.

Material and methods

Pictures were taken using a Leica (M165C) stereomicroscope with a DFC420 digital camera; a series of partially