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Kempnyia puri, a new species of Perlidae (Plecoptera) from Rio de Janeiro, Brazil

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Abstract

Kempnyia puri sp.nov. is described from male specimens from Rio de Janeiro State, southeastern Brazil. This species is distinguished from its congeners by the male genitalia bearing moderately long and curved hooks with apex directed laterad and a large and rounded dorsal projection of the penial ring.

Key words: Plecoptera, Perlidae, *Kempnyia*, new species, Brazil

Introduction

Kempnyia Klapálek, 1914 is an endemic genus from South America, occurring from southern to central region of Brazil, but recent studies indicate the possible occurrence in neighboring areas such as Uruguay, Argentina, and Paraguay (Bispo & Froehlich 2004). Derka *et al.* (2010) reported immatures of the genus in Venezuela. The genus currently includes 36 species and 16 occurring Rio de Janeiro State (Froehlich 2010, 2011a, 2011b, Nessimian *et al.* 2009). *Kempnyia* is characterized by W-shaped postfrontal line, eyes totally pigmented and a triangular to pear-shaped hammer (Froehlich 1984, Bispo & Froehlich 2007). The immatures are found in relatively pristine low order rivers, inhabiting leaf litter and rock substrates (Baptista *et al.* 2001). In this work, we describe a new species from the central mountains of Rio de Janeiro State.

Materials and methods

Two males were collected using light traps at rivers in Teresópolis and Nova Friburgo municipalities, Rio de Janeiro State by Luís Fernando Marques Dorvillé. To examine the genitalia, abdomens were removed and cleared in 10% KOH. The specimens were preserved in 98% ethanol and deposited in the Coleção Entomológica Professor José Alfredo Pinheiro Dutra, Departamento de Zoologia, Universidade Federal do Rio de Janeiro (DZRJ).

Results

Kempnyia puri sp. nov.

Figs. 1–5.

Type material. Holotype. Brazil. Rio de Janeiro State. Nova Friburgo. Rio das Flores. 22°25'36,6"S 42°30'26,4"W. 1,062m. 16.vii.1995. L.F.M, Dorvillé leg., 1♂ (DZRJ #1,591); **Paratype.** Teresópolis. Rio Varginha. Hotel Sayonara. 22°26'46.30"S 42°53'22.20"W. 947m. 17.viii.1997. L.F.M, Dorvillé leg., 1♂ (DZRJ #237).