

Taxonomy of *Simulium guaporense* Py-Daniel (Diptera: Simuliidae) from Brazil, with the first description of males and females

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Abstract

We describe *Simulium guaporense* Py-Daniel adults and redescribe some morphological characters of its larvae and pupae based on specimens collected near the type locality in Rondônia State, Brazil. We report this species for the first time in Mato Grosso State. This species was placed originally in the *S. siolii* species group of the subgenus *Psaroniocompsa*; however, the thoracic pattern of the adults of *S. guaporense* is similar to that of species in the *S. auristriatum* species group. The immature stages were found on deciduous leaves and trailing vegetation in sandy-bottomed streams. Females were collected biting humans.

Key words: Aquatic insects, black fly, Neotropical region, taxonomy, *Psaroniocompsa*, *Simulium guaporense*

Introduction

The species of the subgenus *Psaroniocompsa* Enderlein are widely distributed in the Neotropical Region (Coscarón 1987). Crosskey & Howard (1997, 2004), in their world inventory of the Simuliidae, listed 41 morphospecies in *Psaroniocompsa* and recognized five species groups in this subgenus (*amazonicum*, *auristriatum*, *incrustatum*, *quadrifidum*, and *siolii* species groups). They also regarded 10 other species as “species unplaced to group” in this subgenus.

Simulium guaporense was described based on larvae and pupae collected in the state of Rondônia by Py-Daniel (1989), who placed this species in the *siolii* species group together with *S. damascenoi* Py-Daniel, *S. siolii* Py-Daniel, and *S. lourencoi* Py-Daniel