



Mansonia (Mansonia) iguassuensis sp. nov. (Diptera: Culicidae) from Brasil

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Abstract

A new species, *Mansonia (Mansonia) iguassuensis* sp. nov., is described and defined based on morphological characters of adult male and female, male genitalia, fourth-instar larvae and pupae. Descriptions were based on specimens collected in the states of Paraná and São Paulo. Female and male genitalia, fourth-instar larvae and pupae are illustrated.

Keywords: Culicidae, *Mansonia iguassuensis*, new species, morphology, systematics

Introduction

The Mansonini includes two genera *Coquillettidia* Dyar and *Mansonia* Blanchard. The latter contains two subgenera, *Mansonia* Blanchard with 14 Neotropical species (Guimarães, 1997; Barbosa *et al.*, 2005) and *Mansonioides* Theobald with ten oriental species (Ronderos & Bachmann, 1963a) and two Ethiopian species. All species of *Mansonia* and *Coquillettidia* and some species of the non-mansoniine genus *Mimomyia* Theobald have the spiracular apparatus modified for piercing submerged vegetation and obtaining oxygen from plant tissue (Service, 1996).

During ecological studies on Culicidae at the Parque Regional do Iguaçu (PRI), Curitiba, State of Paraná, from 1999 until 2002, we collected several specimens of *Mansonia (Mansonia)* spp. Initially, part of these adults were identified as either *Mansonia titillans* (Walker) or *Mansonia wilsoni* (Barreto & Coutinho). Based on morphological comparisons of the structure of the male genitalia of a paratype of *Ma. wilsoni* and several specimens of *Ma. titillans* collected in Óbidos and Santarém municipalities, both in the State of Pará, we concluded that the specimens collected at PRI were distinctively different from those of *Mansonia titillans* and *Mansonia wilsoni*.

When examining *Mansonia* specimens deposited in the Entomological Collection of Faculdade de Saúde Pública of the Universidade de São Paulo (FSP-USP), we found adult specimens that were morphologically similar to specimens collected at the PRI. Moreover, based on published records on *Mansonia (Mansonia)* species and careful morphological comparison with other *Mansonia* species deposited in the collection, it became evident that the PRI specimens belong to an undescribed species. Diagnostic characters are mainly those of the male genitalia.

In the current study, we describe adult male and female, fourth-instar larva and pupa of a new species, *Mansonia iguassuensis* sp. nov. Male and female genitalia, fourth-instar larva and pupa are illustrated.