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Revision of the New World *Dohrniphora* Dahl species lacking large hind tibial setae (Diptera: Phoridae)

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Abstract

The New World species of *Dohrniphora* lacking large hind tibial setae are revised, with 139 species recognized, most from the Neotropical Region. Of these, 88 are described as new to science. New synonymies are as follows: *D. denticulata* Borgmeier is a junior subjective synonym of *D. penicillata* Borgmeier, *D. caverna* Disney and *D. recurvata* Borgmeier are both junior subjective synonyms of *D. divaricata* (Aldrich), and *D. ventralis* Borgmeier & Prado is a junior subjective synonym of *D. cognata* Borgmeier.

Key words: Diptera, Phoridae, *Dohrniphora*, New World, taxonomy, natural history

1. Introduction

The genus *Dohrniphora* Dahl is a large group of phorid flies found worldwide. They are frequently-collected, relatively conspicuous phorids, but remain extremely poorly known. The New World species were last revised by Borgmeier (1960, 1961, 1969a,b) and Borgmeier & Prado (1975), with later additions by Prado (1976) and Disney (1983, 1995). Recently, we have revised this fauna (Kung & Brown 2005, 2006; Brown & Kung 2007; Brown 2008), and have found a vast, mostly undescribed assemblage of species.

This paper is a taxonomic revision of the largest subgroup of *Dohrniphora*, those lacking large hind tibial setae. There is some overlap between this group and the previously-treated group with such setae present (Brown & Kung 2007), with a few species normally lacking hind tibial setae occasionally bearing them on one or both legs. Probably neither subgroup is monophyletic. Instead, they are convenience groups to help divide this huge mass of species into two manageable subsections. No obvious characters are available to produce more natural divisions of the genus, however, and large-scale organization must await ongoing molecular phylogenetic studies (J. Hash, California State University, Bakersfield, in preparation). Some smaller, probable monophyletic groups are recognizable, though, and are discussed in this, and our previous paper (Brown & Kung 2007).

2. Methods

Species recognition and other methods are the same as in our previous paper (Brown & Kung 2007). Species are based on male structure in *Dohrniphora*. Males and females are dimorphic in many characters, and cannot be confidently associated in most situations. Disney (2003: 1) summarized the taxonomic problems this dimorphism causes in *Dohrniphora*.

Structural terms are those of the Manual of Central American Diptera (Brown et al. 2009).

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