



New species of Rhegmoclematini (Diptera: Scatopsidae) from Mexico

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Abstract

Four new species of Scatopsidae from Mexico are described and illustrated based on adult morphology, two belonging to the genus *Thripomorpha* Enderlein and two to the genus *Neorhegmoclemina* Cook. These species are named *Thripomorpha unguis*, **n. sp.**, *Thripomorpha liliae*, **n. sp.**, *Neorhegmoclemina dentata*, **n. sp.** and *N. raptoria*, **n. sp.** The latter two represent the first record of *Neorhegmoclemina* Cook in Mexico. All of these species were collected with Malaise traps in the States of Hidalgo and Guerrero.

Key words: Diptera, Scatopsidae, Rhegmoclematini, *Neorhegmoclemina*, *Thripomorpha*, new species, Mexico

Introduction

The family Scatopsidae contains about 350 named species worldwide (Haenni, 1997), classified in four subfamilies divided into 33 genera (Amorim, 1994, 2009; Haenni, 1997), with two new genera recently established by Amorim (2007).

The fauna of the Neotropical region contains 67 named species described in 22 genera (Amorim 2009), but there are still a large number of known undescribed species from different parts of the Neotropical region. The Nearctic fauna, on the other hand, includes 73 known species in 18 genera (Cook 1981). The scatopsids known from Mexico total 15 named species, assigned to nine genera, with fossil records of six species included in three genera. Two species previously described by Duda (1928), *Scatopse maritima* and *Scatopse diabolica*, require re-examination of the material type because their taxonomic position is uncertain.

Huerta & Ibáñez-Bernal (2008) added new records and described new species of *Swammerdamella* Enderlein and *Colobostema* Enderlein from Mexico. Later, Amorim (2007) illustrated the male terminalia of two species of the genera *Qateiella* Cook (Jalisco) and *Akorhexoza* Cook (Mexico), genera previously recorded from Mexico.

Few collections in Mexico contain identified specimens of scatopsids. The most important collections are Colección de Artrópodos con Importancia Médica (CAIM) and the collection of the Instituto de Ecología, A. C. in Xalapa, Veracruz. The only collection in Mexico housing type material is CAIM, with additional specimens available for study belonging to *Akorhexoza* Cook, *Colobostema* Enderlein, *Neorhegmoclemina* Cook, *Parascatopse* Cook, *Psectrosiara* Kieffer, *Rhegmoclema* Enderlein, *Rhegmoclemina* Enderlein, *Swammerdamella* Enderlein, *Thripomorpha* Enderlein, and other undescribed groups.

We recently studied material of scatopsids collected with Malaise traps from cloud forests near the locality of Tlanchinol, in the State of Hidalgo and a tropical region of the State of Guerrero. In these samples, two genera of Rhegmoclematini were represented, *Neorhegmoclemina* Cook and *Thripomorpha* Enderlein, with 13 specimens belonging to four undescribed species. The aim of this paper is to describe and name these new species, thereby adding knowledge about the poorly known scatopsid fauna of Mexico.