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New species of the genus *Colobostema* Enderlein (Diptera: Scatopsidae) from Mexico

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Abstract

Five new species of the genus *Colobostema* Enderlein, 1926 from Mexico are described and illustrated: *C. emiliano* (Chiapas), *C. marielae* (San Luis Potosi), *C. valentinae* (Jalisco), *C. lupitae* (Oaxaca) and *C. marlettae* (Yucatan). A key to the males of Neotropical species of *Colobostema* is provided. The male genitalia structures (especially the vestiture of parameres and the shape of tergite 9) indicates that all these new species form a group of closely related taxa, associated to the species of the Nearctic and Neotropical region.

Keys words: Scatopsidae, *Colobostema*, Mexico, new species, key

Resumen

Cinco nuevas especies del género *Colobostema* Enderlein 1926 de México son descritas e ilustradas: *C. emiliano* (Chiapas), *C. marielae* (San Luis Potosi), *C. valentinae* (Jalisco), *C. lupitae* (Oaxaca) y *C. marlettae* (Yucatán). Una clave para los machos de las especies Neotropicales del género es provista. Las estructuras de la genitalia masculina (especialmente la vestidura de los parámetros y la forma del tergito 9) indican que todas las especies forma un grupo de taxones estrechamente relacionados, asociados a especies de la región Neártica y Neotropical.

Introduction

The genus *Colobostema* Enderlein, 1926 is worldwide in distribution and in the Neotropical Region is known from only a few described species (Cook 1956, 1967; Haenni & Rapp 2003). In the recent Catalogue of Neotropical Region by Amorim (2009a), this genus belong to the subfamily Scatopsinae, Tribe Colobostematini with five species are currently recognized. Nevertheless several species remain undescribed in Central America (Amorim, 2009b). Three species have been previously described from Mexico: *Colobostema arizonense* Cook, 1956 (Baja California), *C. hoffmannae* Huerta & Ibáñez-Bernal, 2008 (Yucatan) and *C. variatum* Cook, 1956 (Yucatan, Merida).

The study of a small collection of scatopsids obtained using Malaise traps in the states of Chiapas, San Luis Potosi, Jalisco, Oaxaca and Yucatan revealed the presence of five undescribed species. In this paper, these new species are described and illustrated, comparing them with related Nearctic and Neotropical species of the genus. A key is provided for males of all known Neotropical species. With the addition of the new species described here, there are now eight species known from Mexico and ten from the entire Neotropical Region.

Material and methods

Explanations of the taxonomic characters used here are found in Haenni (1997) and Amorim (2009b). The type specimens were mounted on microscope slides with Euparal following the technique of Borkent & Spinelli (2007) after dissection for examination of structures.