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A new species of the genus *Micropeza* Meigen (Diptera: Micropezidae) from Brazil

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Abstract

The stilt-legged fly genus *Micropeza* contains 82 valid species. Currently 10 species are recorded in Brazil. Here we describe a new species, *M. dactyloptera* sp. nov., based on 108 specimens (55 males and 53 females) from the States of Goiás, Paraná, and Distrito Federal, Brazil.

Key words: acalyprate, cerrado vegetation, Neotropical, Taxonomy

Introduction

The stilt-legged fly genus *Micropeza* Meigen, 1803 contains 82 valid species worldwide, with 20 species in the Nearctic region, 46 species in the Neotropical region and 19 species in the Palaearctic region (Ozerov 1997; Systema Dipteroorum 2013). The genus is distinguished from other genera of Micropezidae by the presence of one to four katapisternum bristles, a row of dorsal bristles on hind tibia, absence of cell bm-cu in the wing, frontal and dorsocentral bristles (Ozerov, 1997; Marshall 2010). In the Neotropical region *Micropeza* is separated into two subgenera: *Micropeza (Micropeza)* Meigen, 1803 and *Micropeza (Neriocephalus)* Enderlein, 1922, which differ from each other by the number of notopleural bristles and wing venation (Ozerov 1997; Marshall 2010).

The new species described here belongs to *M. (Micropeza)* due to the presence of one notopleural bristle and the cell r₄₊₅ closed at margin (Marshall 2010). In addition to describing the new species, we revise the checklist of the 11 *Micropeza* species known from Brazil.

Material and Methods

We examined 108 specimens (55 males and 53 females) of the new species, 62 were collected from 2009 to 2013 in Distrito Federal, Brazil perched on the following plants: *Zea mays* L. (maize); *Ricinus communis* L. (castor bean); *Canavalia ensiform* (L.) DC. (jack bean); *Nicandra physaloides* (L.) Pers.; *Pennisetum purpureum* Schum. (elephant grass); *Leucaena leucocephala* (Lam.); *Morus nigra* L. (blackberry); *Thyttonia diversifolia* Gray (mexican sunflower) and *Xanthosoma* sp. (L.) (cocoyam). The other 46 specimens were obtained from the collection of the Museu de Zoologia, Universidade de São Paulo.

Photographs of the specimens were taken with Leica DFC295 camera mounted on Leica M205 C stereomicroscope. The measurements (mm) of the specimens were taken using Leica software LAS-V3.8.

The terminology for describing the structures of external morphology of the flies follows Merritt (1971), Merritt & James (1973) and MacAlpine et al. (1981). The holotype and 61 paratypes were housed in the Coleção Entomológica do Departamento de Zoologia da Universidade de Brasília, Brazil (CEZUB), and the remaining 46 paratypes were deposited in the Museu de Zoologia, Universidade de São Paulo, Brazil (MZUSP).

presence of a finger-shaped projection on the costal vein of the male wing. This feature represents a sexual dimorphism for this species. The female diagnostic characters are the color patterns of the body, which is similar to male

Records of geographic distribution. Brazil: Goiás, Distrito Federal, Paraná.

Catalogue of the genus *Micropeza* from Brazil

Genus **Micropeza** Meigen

Tylos Meigen, 1800: 31. Type-species, *Musca corrigiolata* Linnaeus (Coquillett, 1910: 618). Suppressed by I.C.Z.N., 1955: 267.

Tylos, emend.

Micropeza Meigen, 1803: 276. Type-species, *Musca corrigiolata* Linnaeus (mon.).

Neriocephalus Enderlein, 1922: 160. Type-species, *Micropeza appendiculata* Schiner (orig. des.).

Metopobrachia Enderlein, 1922: 161. Type-species, *Micropeza obscura* Bigot (orig. des.).

Cliopeza Enderlein, 1922: 162. Type-species, *Calobata pectoralis* Wiedemann (orig. des.).

Neotylus Hendel, 1932: 121. Type-species, *Micropeza brasiliensis* Schiner (orig. des.).

Neotypus, error.

Protylos Aczél, 1949a: 238 (as subgenus). Type-species, *Micropeza stigmatica* Wulp (orig. des.).

armipennis (Bezzi), 1924: 73, fig. 1 (*Cliopeza*). Type-locality: Brazil, São Paulo. Distr. – Brazil. Ref. – Albuquerque, 1966: 39-45, figs. 1-18.

brasiliensis Schiner, 1868: 249. Type-locality: Brazil and Colombia. Distr. – Panama, Venezuela, Colombia, Brazil. Ref. – Hendel, 1932: 17, figs. 3 (p. 122), 1, 8 (p. 127) (Specimens from Venezuela).

incisa Wiedemann, 1830: 547. Type-locality: “Brazil”. Distr. – Brazil.

littoralis Albuquerque, 1967. Type-locality: Brazil, Rio de Janeiro, Guanabara [sic] State of Rio de Janeiro. REF. Mello & Lamas, 2011: 189. [pers. comm. R. L. Mello]

luteiventris (Czerny), 1932: 294 (*Metopobrachia*). Type-locality: Brazil, on shipboard Pará [Belém] – Manaus. Distr. – Peru, Brazil, ?Panama.

maculidorsum (Enderlein), 1922: 161 (*Metopobrachia*). Type-locality: Brazil, Rio Grande do Sul, Pôrto Alegre. Distr. – Brazil.

pallens Wiedemann, 1830: 547. Type-locality: “Brazil”. Distr. – Costa Rica, Brazil.

reconditus (Albuquerque, 1967). Type-locality: Brazil, Rio de Janeiro, Tijuca. [sic] State of Rio de Janeiro. REF. Mello & Lamas, 2011: 190. [as *Micropeza*, pers. comm. R. L. Mello].

sagittifer Cresson, 1926: 263. Type-locality: Brazil, Mato Grosso, Chapada. Distr. – Brazil.

stigmatica Wulp, 1897:366, pl. 9, figs. 17, 17a. Type-localities: Mexico, northern Sonora, Jalisco (San Blas), Veracruz (Atoyac and Medellín) Córdoba (San Lorenzo), Guerrero (Dos Arroyos). Distr. – U.S.A., Mexico, Central America, Brazil, Bolivia, Paraguay, Argentina.

longiceps Hendel, 1932: 123, fig. 5 (p. 122), fig. 3 (p. 127). Type-locality: Paraguay, Asunción, Trinidad.

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