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A distinctive new species of Genus *Neorhegmoclemina* Cook (Diptera: Scatopsidae) from Mexico

HERON HUERTA¹ & FELIPE DZUL²

¹Lab. Entomología, InDRE, Francisco de P. Miranda No 177, Colonia Unidad Lomas de Plateros, CP 01480, MEXICO.

E-mail: cerato_2000@yahoo.com

²Secretaría de Salud, Av. Ruffo Figueroa No. 6, Col. Burócratas, 39090, Chilpancingo, Guerrero, Mx.

Abstract

A new Neotropical species, *Neorhegmoclemina yolotli* sp. nov., is described and illustrated based on adult specimens collected in the state of Guerrero, Mexico. This species exhibits features not previously recognized for the genus.

Keys words: Scatopsidae, Mexico, *Neorhegmoclemina*, new species, Neotropical Region

Introduction

The genus *Neorhegmoclemina* was erected by Cook (1955) as subgenus of *Rhegmoclemina* Enderlein, 1936, and was subsequently elevated to genus level by Amorim (1994). The genus is known from the Nearctic (Cook, 1955), Neotropical (Duda, 1928, Cook, 1955, 1978, Amorim & Haenni, 1996, Edwards, 1930, Williston, 1896) and Palaearctic (Haenni, 1997) regions. One undescribed species from Dominican amber species belongs to this genus (Cook, 1990, Amorim, 1998). The catalogue of the family Scatopsidae for the Neotropical Region (Amorim, 2009a) includes seven species of *Neorhegmoclemina*, to which Huerta & Dzul (2010) added two new species from Mexico. More undescribed species of the genus, however, are known from this area (Amorim, 2009b).

The genus is mainly characterized by the antenna with 10 flagellomeres, wing CuA2 sigmoid with or without setae, M fork complete, and M1 and M2 without setae. There is a regular row of supra-alar setae, the stem of the halter have no setae and male sternite seven is typically shield-shaped, usually with conspicuous basal apodemes.

We describe and illustrate here a new species of the genus from Guerrero, Mexico, with quite unusual features, not previously reported for other species of the genus.

Material and methods

Adult specimens were collected with Malaise trap, preserved in 70% ethanol and subsequently cleared, dissected, and mounted on microscopic slides in Euparal. Explanations of the taxonomic characters used here follow in Haenni (1997) and Amorim (2009b). The specimens were examined, measured, and illustrated with a binocular compound microscope with the aid of a *camera lucida*. Measurements are given in millimeters.

Photomicrographs were taken with a digital camera Infinity attached to an Olympus microscope, later edited using Adobe Photoshop. All specimens are deposited in the Collection of Arthropods with Medical Importance (CAIM), Mexico City, Distrito Federal, Mexico.

Genus *Neorhegmoclemina* Cook

Neorhegmoclemina Cook, 1955:358 (as subgenus of *Rhegmoclemina* Enderlein). Amorim 1994: 109 (stat. n.). Type-species. *Rhegmoclemina (Neorhegmoclemina) parvum* Cook (orig. des.).

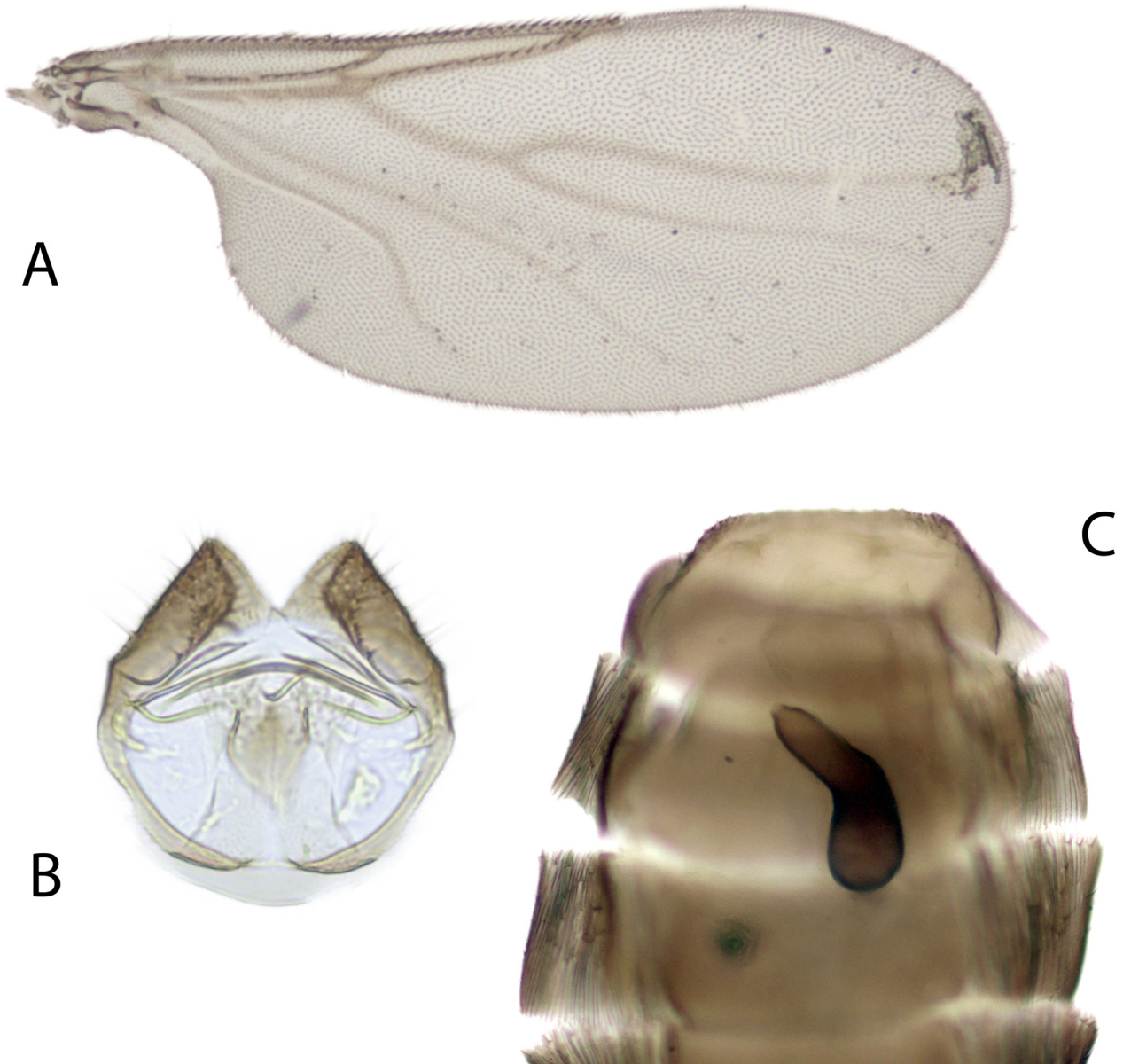


FIGURE 9. *Neorhegmoclemina yolotli* sp. nov. Female, paratype. A. Wing. B. Genitalia, ventral view. C. Tip of abdomen and spermatheca.

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