



Three new species of *Canthonella* Chapin from Hispaniola, with new records and Nomenclatural changes for West Indian dung beetles (Coleoptera: Scarabaeidae: Scarabaeinae)

MICHAEL A. IVIE¹ & T. KEITH PHILIPS²

¹Montana Entomology Collection, Room 50 Marsh Laboratory, Montana State University, Bozeman, MT, 59717-0302, USA.
E-mail: mivie@montana.edu

²Department of Biology, Western Kentucky University, Bowling Green, KY, 42101, USA. E-mail: keith.philips@wku.edu

Abstract

Three new species, *Canthonella jarmilae*, *Canthonella quesquaya*, and *Canthonella sikesi* NEW SPECIES, are described from Hispaniola. New distribution records for *Canthochilum taino* Matthews and *Canthonella parva* Chapin expand the known range of these Puerto Rican Bank species to the northern Virgin Islands. Colonization by the Old World species *Digitonthophagus gazella* (Fabricius) on Jamaica, Hispaniola, Puerto Rico, St. Croix, St. Kitts, Montserrat and Guadeloupe is documented for the first time, and the mainland American species *Pseudocanthon perplexus* (LeConte) is recorded from Grand Bahama Island, a first record for the West Indies. *Onthophagus albicornis* Palisot de Beauvois and *Onthophagus capitatus* Laporte are re-elevated to full species NEW STATUS, and their allopatric distribution on Hispaniola documented. A list of the 45 known species from the Greater Antilles and Bahama Islands is included.

Key words: Scarabaeinae, dung beetles, West Indies, Greater Antilles, new species, invasive species

Resumen

Tres especies nuevas, *Canthonella jarmilae*, *Canthonella quesquaya*, y *Canthonella sikesi* ESPECIES NUEVAS, son descritas para La Española. Nuevos reportes de distribución para *Canthochilum taino* Matthews y *Canthonella parva* Chapin, las cuales se expanden fuera del rango del Banco Puertorriqueño hasta las Islas Vírgenes. Documentamos por vez primera la colonización de las especies del Viejo Mundo *Digitonthophagus gazella* (Fabricius) en Jamaica, La Española, Puerto Rico, St. Croix, St. Kitts, Montserrat y Guadeloupe. La especie de América continental *Pseudocanthon perplexus* (LeConte) ha sido reportada para Isla Grand Bahama, el primer reporte para las Indias Occidentales. *Onthophagus albicornis* Palisot de Beauvois y *Onthophagus capitatus* Laporte han sido elevadas a la categoría de especie NUEVO ESTATUS, y se documenta su distribución allopátrica en La Española. Se incluye una lista de 45 especies conocidas en las Antillas Mayores y las Islas Bahamas

Introduction

The Scarabaeinae of the West Indies were last fully revised by Matthews (1966), who recorded 40 species from the West Indies, 26 of these from the Greater Antilles and Bahamas. Three years later, he described two new species of *Canthochilum* Chapin and mentioned an additional undescribed species from Hispaniola (Matthews 1969). Howden (1976) added *Drepanocerus pecki* (now in *Anoplodrepanus* Simonis) from Jamaica. In an earlier paper (Ivie & Philips 1990), we described two Hispaniolan *Canthonella* Chapin, and in a companion paper (Philips & Ivie 2008), seven additional Hispaniolan *Canthochilum* species are described. We take this current opportunity to describe three new Hispaniolan *Canthonella*, revise the status of *Onthophagus cap-*