



Article

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A new Mexican species and new taxonomic and distributional data of *Strigoderma* Burmeister (Coleoptera: Scarabaeidae: Rutelinae)

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Abstract

A new species of scarab beetle, *Strigoderma tenebrosa* **new species**, is described from the state of Chiapas, Mexico. The new species belongs to the *S. costulipennis* species group, and a new key to this group is presented in order to facilitate the identification of this species. Taxonomic comments and new distributional data are given for *S. contracta* Bates, *S. costulata* Nonfried, *S. festiva* Bates, *S. longicollis* Bates, *S. presidii* Bates, *S. protea* Burmeister, and *S. teapensis* Bates.

Key words: taxonomy, key, distribution, scarab beetle, Rutelinae

Resumen

Se describe una nueva especie de escarabajo, *Strigoderma tenebrosa* **especie nueva**, colectada en el estado de Chiapas, México. La nueva especie pertenece al grupo de especies *S. costulipennis*. Se presenta una nueva clave de identificación para separar a las especies de este grupo y se proporcionan comentarios taxonómicos y nuevos datos de distribución para *S. contracta* Bates, *S. costulata* Nonfried, *S. festiva* Bates, *S. longicollis* Bates, *S. presidii* Bates, *S. protea* Burmeister y *S. teapensis* Bates.

Introduction

The New World genus *Strigoderma* Burmeister (Coleoptera: Scarabaeidae: Rutelinae: Anomalini) includes 40 species ranging from Canada to Argentina (Jameson *et al.* 2003), with most species (18 species or 45%) occurring in Mexico, 10 of which are endemic to this country (Bader 1992; Morón 1997). The United States and Canada have five species (Jameson 2002), while 15 species occur in Central America (including eight endemic species) (Bader 1992; Katbeh-Bader 2000). South America has 10 endemic species, and two shared with Mexico and Central America (Blackwelder 1944; Machatschke 1957, 1972).

The North and Central American species of this genus were revised by Bader (1992), who arranged to these species in six species-groups, based on the sculpture and number of striae of the elytra. The *Strigoderma costulipennis* species group includes two species distributed from western and southern Mexico to Nicaragua: *S. costulipennis* Bates and *S. tomentosa* Bates. Species in this group share a granular elytral surface with elevated ridges. Herein, we describe a new species of this species group based on specimens collected in 2001 from Chiapas, Mexico. In addition, we provide new taxonomic information and distributional data for six species in order to clarify their identification and distribution.

Material and methods

Morphological structures were studied and illustrated using a Carl Zeiss Stemi SV-6 stereomicroscope and a camera lucida. Measurements are given in millimeters. Length was measured from apex of clypeus to apex of