



***Ardistomis quixotei* (Coleoptera: Carabidae: Clivinini), a new species from Cuba and Mexico: structural and habitat features of adults, larvae and pupae, comparisons with previously described species, and notes about classification and biogeography**

PAVEL VALDÉS R.

Apartado Postal 5187, La Habana 5, Cuba. E-mail: gvergel@infomed.sld.cu

Abstract

A new species of the genus *Ardistomis* Putzeys, *A. quixotei*, is described and illustrated from specimens collected in Cuba and Mexico, along with its larva and pupa. Data on natural history and habitat are given for Cuban populations. A key to adults of all species of *Ardistomis* from the West Indies is included. Among the species studied for comparison, *A. elongatulus* Putzeys and *A. schauimi* LeConte seem to be the closest Middle American relatives of *A. quixotei*, based on features of the male genitalia. Larval features support recognizing the ardistomines (*Ardistomis* Putzeys, *Semiardistomis* Kult, and *Aspidoglossa* Putzeys) as a subtribe of the tribe Clivinini. *Ardistomis quixotei* probably extended its geographical range to Cuba from Mexico during the Quaternary Period.

Resumen

Una nueva especie del género *Ardistomis* Putzeys, *A. quixotei* se describe e ilustra a partir de especímenes colectados en Cuba y México junto a las larvas y pupas. Se ofrecen datos de la historia natural y el hábitat para las poblaciones cubanas. Se incluye una clave para determinar los adultos de todas las especies antillanas del género *Ardistomis*. De las especies Centro Americanas estudiadas para comparar, *A. elongatulus* Putzeys y *A. schauimi* LeConte parecen ser las más cercanamente relacionadas de *A. quixotei*, basado en características de los genitales masculinos. Las características larvales apoyan la clasificación de los Ardistominos (*Ardistomis* Putzeys, *Semiardistomis* Kult, y *Aspidoglossa* Putzeys) como una subtribu de la tribu Clivinini. *Ardistomis quixotei* extendió su rango geográfico hacia Cuba desde México durante el período Cuaternario.

Key words: Coleoptera, Carabidae, Clivinini, Ardistomina, **new species**, Middle America, larva

Introduction

The main purpose of this paper is to describe and illustrate a new species of the genus *Ardistomis* Putzeys from Cuba and Mexico. The larva and pupa are also described, representing the first description of the immature stages for the genus. A broad approach is attempted, so that this publication may serve as a background for future studies of *Ardistomis* and its putatively close relatives.

With an area more than 4 500 km², the Zapata Swamp is among the World's largest remaining wetlands and constitutes a sanctuary for much of the Cuban wildlife. Lowland carabids found a natural refuge in this area. There live the oldest and more generalist members of most lineages that colonized Cuba through geologic time (Valdés, 2005). During a systematic sampling of different microhabitats in the Zapata Swamp, lar-