



## Two new species of *Amnestus* from Guatemala, with new records for some other Guatemalan burrower bugs (Hemiptera: Heteroptera: Cydnidae)

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### Abstract

In this paper we describe two new species in the genus *Amnestus*, *Amnestus henryi* and *Amnestus zacki*, and we register new localities for 10 species of burrowing bugs for the fauna of Guatemala; two of these species correspond to new records, *Amnestus pusio* (Stål), and *Dallasiellus reflexus* Froeschner. We include a brief description of the 28 species known for Guatemala, mentioning old and new records; new species are fully described and illustrated, and drawings of the male genitalia, scent gland opening, fore, and hind legs of males are also presented. A key to separate the 28 Guatemalan species of burrower bugs is provided.

**Key words:** New species, Central America, *Amnestus*, diversity

### Introduction

The Cydnidae are distributed worldwide, and are represented by 88 genera and 680 species (Lis, 2006). Most of the species are black or brown, often with a smooth, glossy or shining surface; a few are brightly colored. Many species, probably the majority, are fossorial; and they are often called burrower bugs (Froeschner, 1960; Schuh and Slater, 1995).

There have been only a few attempts to review the cydnid fauna of America: the work of Pennington (1920) for Argentina; the one of Wolcott (1948) and Froeschner and Maldonado (1992) for Puerto Rico; and the most important study was the revision of the Western Hemisphere fauna of Cydnidae by Froeschner (1960); the Heteroptera or true bugs of Ecuador by Froeschner (1981) who recorded 10 species of cydnids; true bugs of the Galapagos (Froeschner, 1985), with two species; true bugs of Panama (Froeschner, 1999), who registered 33 species of cydnids; and finally the work of Mayorga (2002) who reviewed the genera for Mexico, with also a list of 39 species. No previous revisionary works of the Guatemalan cydnid fauna have been made, and there are only isolated reports in the Froeschner Catalog, or in the study of *Scaptcoris talpa* Champion by Bianchi (1935).

There are two genera in the subfamily Amnestinae, the genus *Amnestus* Dallas (1851) with species that are recognized by their small size, and by the four or five marginal pegs on the juga (Froeschner, 1960). Froeschner (1960) reported 20 species from Canada to Argentina, and recently Mayorga and Cervantes (2001, 2005) described seven new species for Mexico. In addition is the recently described *Lattinestus* Eger (2008) with three species that are similar to *Amnestus* but differ by the reduced hemelytral membrane, by the absence of ocelli, and by the length of the claval commissure; the *Lattinestus* species were recorded from Mexico, Costa Rica, and Ecuador

Here, we describe two new species of *Amnestus*; and mentioned all the species of burrower bugs that have been reported from Guatemala, including two species which correspond to new records; in total we have treated 28 species. This contribution does not attempt to be a complete review of the Guatemalan cydnid