



Two new species of *Cis* Latreille (Coleoptera: Ciidae) from Chile

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Abstract

Two new ciid species of *Cis* Latreille are described, *C. andersoni* sp. nov. and *C. peckorum* sp. nov., both known only from localities in Chile. Images of the holotypes and male genitalia of paratypes are provided, together with brief diagnoses for the species, descriptions of the external morphology of the holotypes, measurements and ratios of the type series, and comments on the observed variations of external features. A provisional key to the Chilean *Cis* is also provided.

Key words: Tenebrionoidea, Ciinae, Ciini, Chile, Andean Region, new species

Introduction

The Chilean Ciidae currently comprises six species in the genus *Cis* Latreille and one in *Neoapterocis* Lopes-Andrade (Brèthes 1922, 1924; Germain 1855; Lesne 1924; Lopes-Andrade 2007): *C. bimaculatus* Germain, 1855; *C. campoi* Brèthes, 1924; *C. chilensis* Germain, 1855; *C. espinosai* Brèthes, 1922; *C. fernandezianus* Lesne, 1924; *C. rufus* Germain, 1855; and *N. chilensis* Lopes-Andrade, 2007. *Cis bimaculatus*, *C. fernandezianus* and *C. rufus* are known only from the Juan Fernández Archipelago, while the remaining species are known from continental Chile.

Recently, I examined more than two hundred specimens of Chilean ciids, comprising all the described species of *Cis* and several undescribed *Cis* and *Neoapterocis*. The Chilean *Neoapterocis* will be treated in a separate work. Among the *Cis*, there are undescribed forms represented by just one or a few specimens, usually lacking important parts, and I prefer not to describe these taxa until more specimens are made available. It is worth mentioning that the ciids from Juan Fernández, considering the described and undescribed forms, all belong to the genus *Cis* and that they are morphologically similar to species of the southern Pacific islands. The Ciidae species of continental Chile, particularly the *Cis* spp., are similar to those of the remaining Andean Region (*sensu* Morrone 2002), and they are quite distinct from the ciids of other biogeographic regions, including the Neotropical.

In the present work I describe two additional species of *Cis*: *C. andersoni* sp. nov. and *C. peckorum* sp. nov., both known only from continental Chile, in the Andean Region. I also provide a provisional identification key for the Chilean *Cis*.

Material and Methods

Final comparisons and descriptions were made under a Leica MZ5 stereomicroscope. Measurements of external structures were taken under an MBS-9 stereomicroscope with a scale ocular. Digital photographs of the holotypes were taken with a Canon S70 adapted to a Leica MZ16. Final images of the holotypes (Figs 1–3, 7–9) were the result of joining 20 to 40 photographs in different focus using the image stacking freeware CombineZM (Hadley 2006). Permanent slide preparations of the male genitalia were made using a water-