



Seven new species of *Canthochilum* Chapin from Hispaniola (Coleoptera: Scarabaeidae: Scarabaeinae)

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Abstract

Seven new species, *Canthochilum brodzinskyorum* NEW SPECIES, *Canthochilum magnum* NEW SPECIES, *Canthochilum matthewsi* NEW SPECIES, *Canthochilum mimicum* NEW SPECIES, *Canthochilum nebulonemi* NEW SPECIES, *Canthochilum platycnemis* NEW SPECIES, and *Canthochilum xericum* NEW SPECIES, are described from Hispaniola. New distribution records are given for *C. cibony* Matthews and *C. darlingtoni* Matthews in the Dominican Republic.

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

Resumen

Canthochilum brodzinskyorum ESPECIES NUEVAS, *Canthochilum magnum* ESPECIES NUEVAS, *Canthochilum matthewsi* ESPECIES NUEVAS, *Canthochilum mimicum* ESPECIES NUEVAS, *Canthochilum nebulonemi* ESPECIES NUEVAS, *Canthochilum platycnemis* ESPECIES NUEVAS, and *Canthochilum xericum* ESPECIES NUEVAS son descritas para La Española. Nuevos reportes de distribución para *C. cibony* Matthews y *C. darlingtoni* Matthews en la Republica Dominicana.

Introduction

Canthochilum Chapin is a Greater Antillean endemic genus of small to very small scarabaeines (2.3–6.0 mm) found in forested habitats across a wide variety of moisture and elevational gradients. Chapin (1934) proposed the genus *Canthochilum* for two new species from Puerto Rico and a third previously described species from Cuba. He added a fourth species a year later (Chapin 1935). In a series of papers in the 1960s (Matthews 1965, 1966, 1969; Zayas & Matthews 1966) Matthews and his coauthor added 12 more species, one of which, *Canthochilum* sp. (Matthews 1969), remained unnamed because it was represented by only a partial singleton. These species are distributed on Cuba (8 species), Hispaniola (3 species) and Puerto Rico (5 species).

In a situation similar to that of *Canthonella* (Ivie & Philips 1990, 2008), the number of species on Hispaniola has proven to be greatly under-reported. The results of numerous expeditions to remote areas of that large and mountainous island in the last 20 years, using new techniques, especially the flight intercept trap, have provided us with a number of undescribed species of *Canthochilum*. It seems that each new mountain range sampled yields 1 or more new species of this genus. We take this opportunity to describe the 7 additional species so far discovered, bring the total number of *Canthochilum* species to 23, with 10 of those on Hispaniola. Matthews' enigmatic unnamed species from Etang Lachaux, Haiti, is not among these, still awaiting rediscov-