

## Checklist, distribution, and habitat of the semiaquatic and aquatic bugs from Cuba (Hemiptera: Heteroptera: Dipsocoromorpha, Leptopodomorpha, Gerromorpha and Nepomorpha)

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### Abstract

A checklist of the semiaquatic and aquatic Heteroptera from Cuba is presented, based on literature records and examination of entomological collections. A total of 74 species and 1 morphospecies, 35 genera, and 16 families of the infraorders Dipsocoromorpha, Leptopodomorpha, Gerromorpha, and Nepomorpha are listed. Seven of the represented species are endemic to Cuba (9.5%), 7 of the Caribbean subregion (9.5%), and 13 of the Neotropics (17.6%). The most diverse families in the country are Gerridae (14 species), Veliidae (12 species), and Corixidae (11 species). Available distributional and habitat data are provided for each species.

**Key words:** Aquatic insects, biogeography, endemism, Hemiptera, taxonomy

### Resumen

Se presenta una lista de los heterópteros semiacuáticos y acuáticos de Cuba, a partir de la revisión de literatura y examen de colecciones entomológicas. La lista la integran 74 especies y 1 morfospecie, 35 géneros y 16 familias agrupadas en los infraordenes Dipsocoromorpha, Leptopodomorpha, Gerromorpha, y Nepomorpha. Siete especies son endémicas de Cuba (9.5%), Siete del Caribe (9.5%) y 13 de la región Neotropical (17.6%). Las familias más diversas en el país son Gerridae (14 especies), Veliidae (12 especies), y Corixidae (11 especies). Datos de distribución y hábitat disponibles se presentan para cada especie.

**Palabras claves:** Insectos acuáticos, biogeografía, endemismo, Hemiptera, taxonomía

### Introduction

The suborder Heteroptera (Insecta: Hemiptera), with about 38,000 species described worldwide, is a predominantly terrestrial group (Schuh and Slater 1995). Nevertheless, more than 4,800 known species are somehow related to different kinds of water bodies (Polhemus and Polhemus 2008). The vast majority of them are representatives of the infraorders Gerromorpha and Nepomorpha, but approximately 380 species of Leptopodomorpha occur in areas adjacent to water, and at least one Dipsocoromorpha species lives in a semiaquatic condition (Nieser 1973; Schuh and Slater 1995; Polhemus and Polhemus 2008).

Semiaquatic and aquatic bugs live in a wide range of natural and artificial habitats: humid terrestrial microhabitats (not necessarily close to free water), seeping rock faces with algae and moss, marginal aquatic