

A revision of *Oocyclus* Sharp of Mexico and Central America (Coleoptera: Hydrophilidae)

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Abstract

The hygropetric genus *Oocyclus* Sharp is revised for Mexico and Central America. Eight species are described as new: *O. catarata* n. sp., *O. funestus* n. sp., *O. grandis* n. sp., *O. muscus* n. sp., *O. ornatus* n. sp., *O. sharpi* n. sp., *O. substillus* n. sp., and *O. tapanti* n. sp. Redescriptions and new distribution records are provided for *O. brevicornis* Sharp, *O. maculatus* Sharp and *O. vestitus* Sharp. A lectotype is designated for *O. brevicornis*. A key to known Mexican and Central American species is provided. All species are associated with hygropetric habitats, including rock seeps and the spray zones of waterfalls and cascades. Digital images of the holotypes are provided (online version in color) and male genitalia illustrated.

Resumen

El género *Oocyclus* Sharp es revisado para México y América Central. Ocho especies son descritas como nuevas: *O. catarata* n. sp., *O. funestus* n. sp., *O. grandis* n. sp., *O. muscus* n. sp., *O. ornatus* n. sp., *O. sharpi* n. sp., *O. substillus* n. sp., y *O. tapanti* n. sp. *O. brevicornis* Sharp, *O. maculatus* Sharp y *O. vestitus* Sharp son redescritas, proporcionando nuevos registros de distribución. Se designa un lectotipo para *O. brevicornis*. Se proporciona una clave para todas las especies conocidas de México y América Central. Se proporcionan imágenes digitales de los holotipos (la versión electrónica en color) y la genitalia masculina es ilustrada para todas las especies.

Keywords: Coleoptera, Hydrophilidae, Laccobiini, *Oocyclus*, Costa Rica, Mexico, Honduras, Guatemala, Panama, Central America, new species, taxonomy, hygropetric habitats, INBio, digital images of holotypes.

Introduction

The genus *Oocyclus* Sharp, originally described from three species in Mexico and Central America (Sharp 1882), now includes seventeen species from the Neotropics and Indo-Malaysia (Hansen 1999). With the exception of several *Laccobius* species occurring in Mexico, it is the only genus of Laccobiini to occur in Mexico and Central America. The egg cases and first-instar larvae of South American representatives of *Oocyclus* were described by Archangelsky (1997), who also provided brief bionomics on the genus. Oliva (1996) provided a key to the three species of *Oocyclus* and the two species of another hygropetric laccobiine genus, *Beralitra* d'Orchymont, that are known from South America. Hebauer and Wang (1998) provided a key to all known species of *Oocyclus*, with an emphasis on the Old World taxa. Many new species from South America and South East Asia have yet to be described (Short unpubl. data, Perkins unpubl. data, M. García pers. comm.). Here, 1457 specimens from Mexico, Guatemala, Honduras, Costa Rica, and Panama comprising eleven species were examined.