



## A new cave species of *Cryphiops* (Crustacea: Decapoda: Palaemonidae) from Southern Mexico

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### Abstract

The second cave species of the genus *Cryphiops* from Chiapas, Mexico is described. *Cryphiops sbordonii* **sp. nov.** is similar to *Cryphiops luscus* in exhibiting reduced eyes, and an enlargement of ambulatory appendages. It differs from this species in ornamentation of the rostrum, proportions of the articles of the first and the second pereopods, and proportion between the length of the appendix masculina and the length of the appendix interna, as well as the disposition and the number of the setae on the appendix masculina. *Cryphiops sbordonii* new species occurs in the Cueva Chamburro, a cave located in the Margaritas Region of Chiapas, southern Mexico.

**Key words:** *Cryphiops*, Stygobitic Shrimps, Mexico

### Introduction

In Mexico there are several caves in Chiapas State (Sbordoni *et al.* 1977, 1986, 1987; Sbordoni & Lucarelli 1989-'90; Reddell 1981) where several decapod species are part of the obligate fauna (Holthuis 1973; Hobbs *et al.* 1977; Reddell 1981; Villalobos 2005; Mejía-Ortíz *et al.* 2008). Three species of the genus *Cryphiops* Dana, 1852 currently inhabit these cave systems and epigeal rivers that belong to the subgenus *Bythinops* Villalobos, Nates & Cantu, 1989: *Cryphiops luscus* (Holthuis 1973) and *Cryphiops perspicax* (Holthuis 1977) have been reported only from caves; and *Cryphiops villalobosi* Villalobos, Nates & Cantu, 1989 has been collected from epigeal rivers and streams.

In this paper, a new stygobitic species is described. It occurs in the Cueva Chamburro in the Margaritas Region (fig. 1). The relationships of the new species with other subterranean and epigeal species from Chiapas are discussed.

The type specimens are deposited in the National Crustacean Collection (CNCR) of the Instituto de Biología, Universidad Nacional Autónoma de México, Mexico City. The description is based on holotype and allotype material.