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## A new species of *Hoplognathoca* Suárez, 1962 from Central America and description of male of *Hoplognathoca costarricensis* Suárez, 1962 (Hymenoptera: Mutillidae)

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### Abstract

*Hoplognathoca jinotega* Cambra, Quintero & Brothers, **sp. nov.**, female, from Nicaragua and Guatemala and the male of *H. costarricensis* Suárez, 1962 are described and illustrated. The genus *Hoplognathoca* is reported for the first time from Nicaragua.

**Key words:** Mutillidae, *Hoplognathoca*, taxonomy, Neotropical region

### Introduction

*Hoplognathoca* Suárez, 1962 is a strictly Neotropical genus of mutillid wasps from the subfamily Sphaerophthalminae, tribe Pseudomethocini, with five described species, distributed from Mexico to Ecuador (Suárez 1962, 1963; Cambra & Quintero 2003). The following four species of *Hoplognathoca* are currently known only from females: *H. robinsonii* (Blake, 1871) (= *Mutilla croesus* Gerstaecker, 1874), *H. guatemalteca* Suárez, 1962, *H. costarricensis* Suárez, 1962 and *H. aequatoriana* Suárez, 1962; while *H. nodifrons* (Gerstaecker, 1874), present in Panama and Colombia, is known from both sexes (Cambra & Quintero 2003).

Only sparse information about the biology of *Hoplognathoca* is known. They are active during the day time and most specimens of *H. nodifrons* from Panama have been collected between 600 and 800 m of altitude. The only probable host known is a solitary large ground-nesting bee of the genus *Thygater* Holmberg (Apidae, Eucerini) for *H. costarricensis* (Roubik 1989, Cambra & Quintero 2003). In the present study, we describe a new species of *Hoplognathoca* from Guatemala and Nicaragua. We also describe the male of *H. costarricensis*, it then becoming the second species of *Hoplognathoca* known from both sexes.

### Material and methods

Photographs were made with an Olympus Stylus digital camera using stereomicroscope LEICA M 165C, with further image processing done using ArcSoft PhotoStudio. Measurements were made with a calibrated micrometer scale attached to an ocular lens of the stereomicroscope.

The metasomal terga and sterna are abbreviated as T and S respectively. The length of T1 was measured from above. The following abbreviations are used for the collections in which the material discussed below is deposited: DJBC—Collection of Denis J. Brothers, which will be transferred to the Iziko South African Museum, South Africa (SAMC) in due course; INBio—Instituto Nacional de Biodiversidad, Costa Rica; MIUP—Museo de Invertebrados G. B. Fairchild, Universidad de Panamá, Panama; MLUH—Institut für Zoologie, Martin Luther

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