

## A new species of the genus *Bothriomyrmex* Emery, 1869 (Hymenoptera: Formicidae: Dolichoderinae) from Costa Rica

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### Abstract

*Bothriomyrmex paradoxus* Dubovikov and Longino sp. nov. is described from Costa Rica, based on two collections from widely separated localities. These are the first collections of the genus *Bothriomyrmex* in the Americas. The genus *Bothriomyrmex* can be divided into Palearctic species (*Bothriomyrmex s.s.*) and Oriental and Australian species, based on differences in palp formula and queen wing venation. *Bothriomyrmex paradoxus* shares palp and wing characters with the Palearctic species. It is probably native to Central America and long separated from its Old World relatives.

**Key words:** *Bothriomyrmex*, Formicidae, Dolichoderinae, Costa Rica

### Introduction

The subfamily Dolichoderinae is comprised of 22 genera, the majority of which are Old World (Shattuck 1992, Bolton 2003, Brandão et al. 1999). The dolichoderine genera with significant indigenous radiations in the New World are *Azteca*, *Dolichoderus*, *Dorymyrmex*, *Forelius*, *Linepithema*, *Liometopum*, and *Tapinoma*. Three additional genera have been reported as rare or introduced elements. *Technomyrmex*, a diverse genus in the Old World, is represented in the New World by one introduced tramp species and, paradoxically, one native species from Panama and Costa Rica (Wheeler 1934, Longino pers. obs.). *Anillidris* is a rare genus of subterranean ants known only from southern South America. *Ochetellus* is an Australasian genus, one species of which has been reported from Florida as a recent introduction (Smith 1979, Deyrup et al. 1989). Santschi's 1936 publication on *Anillidris* featured the last addition of a native dolichoderine genus to the New World fauna. Thus, we were surprised to discover an undescribed species of *Bothriomyrmex* from Central America. This discovery was first reported in a table of Neotropical genera in