



## Two new species of the genus *Cymatopus* Kertész from the Mariana Islands (Diptera: Dolichopodidae)

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### Abstract

Two new species of the genus *Cymatopus* Kertész, 1901, *C. femoralis* **sp. nov.** and *C. ventralis* **sp. nov.**, are described and illustrated from Pagan, Saipan, Rota, and Guam. This is the first record of *Cymatopus* from the Mariana Islands. A key to all known species of the genus is provided.

**Key words:** Dolichopodidae, *Cymatopus*, Australasian Region, Mariana Islands, Guam, Rota, Saipan, Pagan

### Introduction

*Cymatopus* Kertész, 1901 is one of the dolichopodid genera that live exclusively on rocky sea coasts. This genus was founded by Kertész (1901) for one species from Papua New Guinea. Subsequently, through the endeavors of several entomologists 14 more species of this genus have been described from the Indo-West Pacific regions: one from the Samoan Islands by Parent (1934); one from Malaysia by Parent (1935a); two from Christmas Island (Indian Ocean) by Parent (1935b); one from Australia by Parent (1941); three from Papua New Guinea by Meuffels and Grootaert (1984) and Grootaert and Meuffels (1993); one from Thailand by Grootaert and Meuffels (2001); four from Fiji, East Timor, and New Caledonia by Evenhuis (2005), and one from Madagascar by Grootaert and Meuffels (2008). Four Caribbean and eastern tropical Pacific species were also described in this genus, viz. *C. bredini* Robinson from Dominica, *C. cheesmanae* (Parent) from Cocos Island, and *C. setosus* (Curran) from the Galápagos Islands, and *C. wirthi* Robinson from Panama (Pacific Ocean side), but Grootaert and Meuffels (1993) removed them from *Cymatopus* to an unnamed genus and Evenhuis (2005) concurred. On the other hand, these four species are treated in the genus *Cymatopus* (Bickel & Sinclair (1997), Yang *et al.* (2006), Bickel (2009)). Moreover, Grootaert and Meuffels (2008) suggested that the latest species discovered from Madagascar possibly belongs to new genus.

Here we treat an expanded concept of the genus *Cymatopus*, including the Caribbean, eastern tropical Pacific and Madagascar species, until further research can ascertain its generic status. In this paper, we describe and illustrate two new species of *Cymatopus* from the Mariana Islands, representing the northernmost records for the genus, and present an updated key to the World fauna of *Cymatopus*, which now includes 21 species.

### Material and methods

Specimens examined in this paper derive from collections made by the senior author on Saipan, Rota, and Guam in 2001 as well as from material from surveys conducted on Guam and Pagan as part of contracts to the Bishop Museum. Additional material from Guam and Rota, collected by Dr. Richard Zack (Washington State University) in 2004 were also examined.