



## Two new species of *Guitonia* Garth & Iliffe, 1992 (Crustacea: Decapoda: Brachyura: Xanthidae) from the central and western Pacific Ocean

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### Abstract

Two new species of the previously monotypic xanthid crab genus *Guitonia* Garth & Iliffe, 1992, are described from Guam and the Hawaiian Is. The male characters for the genus are described and illustrated for the first time. *Guitonia paulayi* n. sp., and *G. leimomi* n. sp., can be distinguished from *G. trogliphila* Garth & Iliffe, 1992, and from each other by characters of the carapace, chelae, ambulatory legs, thoracic sternum, male abdomen and male gonopods. With the addition of the two new species and a rediagnosis of *G. trogliphila*, a redescription of the genus, as well as a discussion of its affinities within the Xanthidae, are provided.

**Key words:** Crustacea, Brachyura, Xanthidae, Xanthinae, *Guitonia*, new species, Guam, Hawaiian Islands

### Introduction

*Guitonia* Garth & Iliffe, 1992, was established for a new species, *G. trogliphila* Garth & Iliffe, 1992, and described from a single female specimen found in an anchialine cave in the Galápagos Is. Garth & Iliffe (1992) discussed the affinity of *Guitonia* to other genera in Xanthidae MacLeay, 1838, but refrained from any definite action as they had no male specimens. Ng *et al.* (2008) placed *Guitonia* in the Xanthinae, but did not elaborate on their reasons for doing so.

In this paper, we describe two new species of *Guitonia* from Guam and the Hawaiian Is., which include male specimens for the first time. All measurements of the material examined are expressed as carapace width by carapace length, in millimeters. The nomenclature of carapace regions follows that proposed by Dana (1851) (see also Serène 1984). The following abbreviations are used: coll. = collected by, G1 = first male gonopod, G2 = second male gonopod. The classification proposed by Ng *et al.* (2008) is followed.

Material examined in this report is deposited at the following institutions: Florida Museum of Natural History, University of Florida, Gainesville, Florida, USA (UF), National Museum of Natural History, Washington DC, USA (USNM), and Raffles Museum of Biodiversity Research, National University of Singapore, Singapore (ZRC).

### Family Xanthidae MacLeay, 1838

### Subfamily Xanthinae MacLeay, 1838

### *Guitonia* Garth & Iliffe, 1992

**Type species.** *Guitonia trogliphila* Garth & Iliffe, 1992, by original designation; gender feminine.