



Five new species of chirostylid crustaceans (Crustacea: Decapoda: Anomura: Chirostylidae) from Taiwan

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Abstract

Five new species of chirostylid crustaceans from Taiwan are described. *Eumunida chani* sp. nov. is characterized by the absence of a pad of densely-packed setae on the pereopod 1, the anterior branchial margin bearing two spines, and the carpus of first pereopod with only two spines. *Uroptychus anacaena* sp. nov. and *U. anatonus* sp. nov. are similar but separated from each other by the shape of sternite 4 and relative length of the antennal scale. These species closely resemble *U. maori* Borradaile, 1916 and *U. brucei* Baba, 1986, but lack a ventral subterminal spine on the ischium of pereopod 1. *Uroptychus orientalis* sp. nov. is separated from *U. occidentalis* Faxon, 1893 by the shorter antennal scale and P2–4 dactyli with ultimate and penultimate spines subequal in size. *Uroptychus singularis* sp. nov. is distinguished from *U. australis* (Henderson, 1885) by the single, unpaired terminal spine on the flexor margin of pereopods 2–4.

Key words: chirostylid crustaceans

Introduction

This paper is a part of a series of projects on the crustacean fauna of Taiwan (Tin-Yam Chan, project leader). The catalog of Taiwanese hermit crabs is the first of the series (McLaughlin *et al.*, 2007). The second volume, devoted to Stomatopoda (Ahyong *et al.*, 2008), has just been published, and Galattheoidea and Brachyura volumes are now in preparation.

Chirostylid and galatheid crustaceans of Taiwan have been reported by Baba & Yu (1987), Chan *et al.* (2000), Lin *et al.* (2004, 2005, 2007), Osawa *et al.* (2006a, 2006b, 2007, 2008), and Wu *et al.* (1998). While sorting Taiwanese material to be included in the Galattheoidea volume, we found several undescribed species of *Eumunida*, *Uroptychus*, *Agononida*, *Munida*, *Munidopsis* and *Paramunida*. In this paper, one new species of *Eumunida* and four new species of *Uroptychus* are described. New species of *Agononida* and *Paramunida* are being described by Macpherson & Baba, as also are new species of *Munida* and *Munidopsis* by Macpherson and Lin (in preparation).

Materials and methods

The terminology used in the text follows Baba (2005). Sizes of the specimens indicate the postorbital carapace length measured from the rostral tip to the level of dorsal orbital margin. In descriptions of species based on more than one specimen, details enclosed in square brackets refer to the holotype. The abbreviations used in the text include: Mxp = maxilliped; P1 = first pereopod (cheliped); P2–4 = second to fourth pereopods (first to