



## A new species of the genus *Austinogebia* Ngoc-Ho, 2001 (Crustacea, Decapoda, Gebiidea, Upogebiidae) from northern China

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### Abstract

A new species of the genus *Austinogebia* Ngoc-Ho, 2001, *A. monospina* n. sp., collected from the Bohai Sea and the Yellow Sea, is described and illustrated. It is closely allied to *A. spinifrons* (Haswell, 1881) but differs markedly in the rostral ornamentation, with one infrarostral spine and the unarmed lower margin of antennal peduncle.

**Key words:** Crustacea, Decapoda, Gebiidea, Upogebiidae, *Austinogebia*, new species, Bohai Sea, Yellow Sea

### Introduction

While working on the taxonomic study of the gebiidean fauna (Crustacea, Decapoda) of the China Sea, an undescribed species of the genus *Austinogebia* Ngoc-Ho, 2001 was found from the Bohai Sea and the Yellow Sea.

The genus *Austinogebia* Ngoc-Ho, 2001 is characteristic in having: one to four infrarostral spines, several spines on the anterolateral border of carapace; the lateral ridge of the gastric region projecting forwards; the upper distal half thickened and densely setose, with 1–3 lower distal spines; the pereopod 1 propodus with spines and spinules on the upper border and the lower border unarmed; and the latero-external border of the uropodal endopod with a prominent knob on the proximal shoulder.

Six species are known, all from the Indo-West Pacific: *A. edulis* (Ngoc-Ho & Chan, 1992), *A. narutensis* (Sakai, 1986), *A. nobilii* (Sakai & Türkay, 1995), *A. spinifrons* (Haswell, 1881), *A. takaoensis* (Sakai & Türkay, 1995), *A. wuhsienweni* (Yu, 1931).

The status of the genus has been subject to disagreement. *Austinogebia* Ngoc-Ho, 2001 and *Gebiacantha* Ngoc-Ho, 1989 are treated as a synonyms of *Upogebia* Leach, 1814 by Sakai (2006), but the genus *Gebiacantha* is recognized by Robles *et al.* (2009). In this study, we follow Ngoc-Ho (2001) in recognising the genus *Austinogebia* since its diagnostic characteristics are distinct from the remaining genera of the Upogebiidae.

The higher taxonomy of the Upogebiidae (13 genera, 163 species according to Ahyong *et al.* 2011) is not discussed here, which is beyond the scope of this paper. In this paper we describe and illustrate a new species of *Austinogebia* from the Bohai Sea and the Yellow Sea.

### Material and methods

All material examined is deposited in the Institute of Oceanology, Chinese Academy of Sciences, Qingdao, China (IOCAS). The drawings were made with the aid of drawing tube mounted on a Zeiss Stemi Sv11 compound microscope. The following abbreviations are used throughout the text: cl., length of carapace.