



Reports of *Galathea* Fabricius, 1793 (Crustacea: Decapoda: Anomura: Galatheidae) from Chinese waters, with descriptions of two new species

CHAO DONG^{1,2,3} & XINZHENG LI^{1,4}

¹Institute of Oceanology, Chinese Academy of Sciences, 7 Nanhai Road, Qingdao 266071, China

²Graduate University, Chinese Academy of Sciences, Beijing 100049, China

³Yellow Sea Fisheries Research Institute, Chinese Academy of Fishery Sciences, Qingdao 266071, China

⁴Corresponding author. E-mail: lixzh@qdio.ac.cn

Abstract

Eighteen species of the galatheid genus *Galathea* Fabricius, 1793 from Chinese waters are reported in the present paper based on material in the collection of the Marine Biological Museum (MBM) in the Institute of Oceanology, Chinese Academy of Sciences, Qingdao (IOCAS), including two new species (*G. babai* n. sp., *G. sinensis* n. sp.) and eight species new to Chinese waters (*G. anepipoda* Baba, 1990, *G. consobrina* De Man, 1902, *G. coralliophilus* Baba & Oh, 1990, *G. guttata* Osawa, 2004, *G. inconspicua* Henderson, 1885, *G. pilosa* De Man, 1888, *G. ternatensis* De Man, 1902, and *G. whiteleggii* Grant & McCulloch, 1906). *Galathea babai* n. sp. can be distinguished from all the other congeneric species by the presence of a strong median protogastric spine. *Galathea sinensis* is distinguished from its nearest congener, *G. multilineata*, by having more numerous transverse striae on the carapace, the lateral margin of the carapace with only one instead of four spines behind the posterior cervical groove, the P1 fingers distally ending in incurved spines that cross when occluded (instead of being spooned), and a much shorter cheliped (especially the carpus length relative to breadth). To date, 26 species of *Galathea* Fabricius, 1793 have been recorded from Chinese waters, including the two new species.

Key words: Crustacea, Decapoda, Anomura, Galatheidae, *Galathea*, *Galathea babai* n. sp., *Galathea sinensis* n. sp., Chinese waters

Introduction

The genus *Galathea* Fabricius, 1793 is the type genus and one of the most speciose genera in the family Galatheidae Samouelle, 1819. More than 70 valid species are known worldwide, with 15 in the Atlantic Ocean, 23 in the Indian Ocean and 43 in the Pacific Ocean, the majority of which live in shallow waters (Baba *et al.* 2008; Macpherson & Cleve 2010). So far, 16 species of the genus *Galathea* Fabricius, 1793 have been reported from the Chinese waters and vicinity (Stimpson 1907; Miyake & Baba 1964, 1967; Baba 1969a, 1988; Wu *et al.* 1998; Komai 2000; Clark *et al.* 2008; Wang 2008; Baba *et al.* 2009). These include *G. aegyptiaca* Paul'son, 1875; *G. albatrossae* Baba, 1988; *G. balssi* Miyake & Baba, 1964; *G. genkai* Miyake & Baba, 1964; *G. inflata* Potts, 1915; *G. kuboi* Miyake & Baba, 1967; *G. mauritiana* Bouvier, 1914; *G. multilineata* Balss, 1913; *G. ohshimai* Miyake & Baba, 1967; *G. orientalis* Stimpson, 1858; *G. platycheles* Miyake, 1953; *G. pubescens* Stimpson, 1858; *G. rubromaculata* Miyake & Baba, 1967; *G. spinosorostris* Dana, 1852; *G. yamashitai* Miyake & Baba, 1967; *G. tanegashimae* Baba, 1969.

On examination of the *Galathea* material from the collection of the Marine Biological Museum (MBM) in the Institute of Oceanology, Chinese Academy of Sciences, Qingdao (IOCAS), which were collected from coastal waters of mainland China, 18 species were identified, including two new to science and eight new to Chinese waters. These are herein reported.

For well known species, restricted synonymies are listed; full synonymies can be found in Baba *et al.* (2008). The species are arranged in alphabetical order. The following abbreviations are used in the paper: AT, Agassiz trawl; CN, collection number; DC, diving collecting; MBM, Marine Biological Museum; Mxp3, third maxilliped; P1–P4, first to fourth pereopods; St., station; TT, troll trawl. The measurements in Material