

Species of the Genus *Kamaka* (Crustacea: Amphipoda: Kamakidae) from Japan: *Kamaka excavata* sp. nov. and *K. kuthae*

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Two species of the genus *Kamaka* (Crustacea: Amphipoda: Kamakidae) are recorded and described from Japan. *Kamaka excavata* sp. nov. occurred in brackish waters of Tokushima, Shimane, Oita, Fukuoka, Kumamoto, and Miyazaki Prefectures. Male gnathopod 2 of this new species has a wide coxal plate, a long, acute process on article 6, and a posteriorly excavated article 7, and in these respects is dissimilar to those of other *Kamaka* species. *Kamaka kuthae* Dershavin, 1923 was collected from freshwater in Hokkaido and is fully redescribed herein. The present material agrees very closely with Dershavin's original description. A key to Japanese species of the genus is provided.

Key Words: Crustacea, Amphipoda, Kamakidae, *Kamaka*, new species, Japan, key.

Introduction

During my survey of the amphipod fauna in Japan, four species of the genus *Kamaka* were obtained. In an earlier paper (Ariyama 2007), I described or re-described two species: *Kamaka biwae* Ueno, 1943 and *K. morinoi* Ariyama, 2007. Here the other two species are also described or redescribed, and a key to all species of the genus in Japan is provided.

Materials and Methods

The samples were collected from Hokkaido, Tokushima, Shimane, Oita, Fukuoka, Kumamoto, and Miyazaki Prefectures. Nineteen individuals representing two species were dissected; the appendages of some dissected specimens were examined, and figures produced, under a phase-contrast microscope. Body length was measured from the apex of the rostrum along the dorsal margin to the distal end of the telson; however, in curled-up individuals, the body lengths were adjusted based on the correlation with the width of coxa 1. If setal groups on appendage articles are separated, the number of setae is described as, e.g., a+b in order from proximal to distal. The dissected specimens, including the type series of *Kamaka excavata* sp. nov., are deposited in the Osaka Museum of Natural His-