REPORT ON FOUR PANDALID SHRIMPS FROM THE YELLOW SEA
(DECAPODA, CARIDEA)

BY

XINZHENG LI1)

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

ABSTRACT

The present paper reports on four species of pandalid shrimp from the Yellow Sea: Pandalus gracilis Stimpson, 1860, Pandalus prensor Stimpson, 1860, Plesionika izumiae Omori, 1971, and Procletes levicarina (Bate, 1888). Pandalus prensor and Procletes levicarina are now recorded with certainty from the Yellow Sea for the first time.

RÉSUMÉ

Ce travail porte sur quatre espèces de crevettes Pandalidae de la mer Jaune: Pandalus gracilis Stimpson, 1860, Pandalus prensor Stimpson, 1860, Plesionika izumiae Omori, 1971 et Procletes levicarina (Bate, 1888). La présence de Pandalus prensor et Procletes levicarina en mer Jaune est pour la première fois aujourd’hui établie avec certitude.

INTRODUCTION

The Yellow Sea pandalid fauna has been poorly reported upon. Liu (1963) noted Pandalus meridionalis Balss, 1914 (\(? = P. prensor\) Stimpson, 1860) from the Yellow Sea. Liu & Zhong (1994) followed Liu (1963) to list only that species from “deep waters of Bohai Bay and Yellow Sea”. Cha et al. (2001) reported three species from Korean waters off the west and south coasts of Korea, namely Pandalus gracilis Stimpson, 1860, Plesionika izumiae Omori, 1971, and Plesionika ortmanni (Doflein, 1902).

When I sorted the caridean shrimps deposited in the Marine Biological Museum of the Institute of Oceanology, Chinese Academy of Sciences (IOCAS), collected from the Yellow Sea, including Bohai Bay, specimens of four species of pandalid shrimp were separated and identified. This paper reports on these four species.

1) e-mail: lixzh@ms.qdio.ac.cn
The following abbreviations are used in the text: CN, the preliminary registration number in the museum collection, given when the specimen(s) were collected; spm(s), specimen(s); AT, Agassiz trawl; BT, beam trawl; coll., collector(s); cl, postorbital carapace length. The synonymy provided is restricted to important works and previous reports from the Yellow Sea.

SYSTEMATIC PART

Pandalidae Haworth, 1825

**Pandalus gracilis** Stimpson, 1860
(fig. 1A)


Material examined. — MBM188806, 1 ovigerous ♀ (cl 10.8 mm), Shazikou, Qingdao, Shandong Province, fishery net, coll. Zhang, 22 April 1957; MBM188802, 2 ♀ (cl 5.3, 6.4 mm), CN 0006-32, Daguondao Island, off Qingdao, Shandong Peninsula, 22 August 1958; MBM188811, 2 ♂♂ (cl 6.8, 7.8 mm), 2 ovigerous ♀♀ (cl 9.9, 11.1 mm), CN H0060-28, Yellow Sea, st. 3044, 35°30’N 120°15’E, 24 m, gravel, BT, coll. Guyi Hu, 2 February 1959; MBM188804, 1 ovigerous ♀ (cl 9.4 mm), CN H148B-15, Yellow Sea, st. 3043, 35°29.5’N 120°00.5’E, 24 m, sand with gravel, AT, coll. Guyi Hu, 30 April 1959; MBM188807, 2 ♂♂ (cl 7.9, 8.4 mm), 1 ovigerous ♀ (cl 9.7 mm), CN H149B-22, Yellow Sea, st. 3044, 35°30’N 120°15’E, 25 m, sandy mud with gravel, AT, coll. Jinxiang Jiang, 1 May 1959; MBM188810, 1 ♀ (cl 10.1 mm), CN Y298B-10, Yellow Sea, st. 3044, 35°30’N 120°15’E, 27 m, gravel, BT, coll. Guyi Hu, 15 July 1959; MBM188809, 3 ♂♂ (cl 9.7, 10.4, 12.0 mm), CN H218B-17, Bohai Bay, st. 1035, 39°00’N 120°53’E, 52.5 m, sandy mud with broken shells, AT, coll. Jinxiang Jiang, 17 July 1959; MBM188805, 1 ♂ (cl 9.7 mm), 1 ♀ (cl 13.9 mm), CN Y316B-24, Yellow Sea, st. 3086, 34°00’N 122°30’E, 54 m, soft mud, AT, coll. Guyi Hu, 21 July 1959; MBM188801, 4 ♂♂ (cl 6.2-8.3 mm), CN Y393B-11, Yellow Sea, st. 3047, 35°29’N 120°58’E, 34 m, muddy sand with gravel, AT, coll. Mu Chen, 26 October 1959; MBM188803, 11 ♂♂ (cl 7.6-11.7 mm), 1 ♀ (cl 11.6 mm), 2 ovigerous ♀♀ (cl 13.5, 15.0 mm), CN Y404B-25, Yellow Sea, st. 3087, 34°03’N 122°57’E, 60 m, soft mud, AT, coll. Mu Chen, 28 October 1959; MBM188808, 1 ♂ (cl 8.1 mm), CN Y410B-31, Yellow Sea, st. 3044, 35°30’N 120°15’E, 31 m, muddy sand with gravel, AT, coll. Guyi Hu, 29 October 1959; MBM188799, 1 ♂ (cl 7.3 mm), CN Y423B-26, Yellow Sea, st. 3060, 34°58’N 120°58’E, 36 m, muddy sand with gravel, AT, coll. Guyi Hu, 31 October 1959.

Distribution. — Bohai Bay, Yellow Sea, East China Sea, Sea of Japan, Tsugaru Strait, Korea Strait, Sendai Bay; 24-311 m.

---

Fig. 1. A, *Pandalus gracilis* Stimpson, 1860, ovigerous ♀ (cl 13.5 mm), MBM188803, carapace and rostrum, lateral view; B, *Pandalus prensor* Stimpson, 1860, ovigerous ♀ (cl 18.4 mm), MBM188789, anterior part of carapace and rostrum, lateral view; C-D, *Plesionika izumiae* Omori, 1971, ovigerous ♀ (cl 9.8 mm), MBM188786; C, carapace and rostrum, lateral view; D, right third pereiopod, lateral view; E, *Procletes levicarina* (Bate, 1888), ♀ (cl 8.6-12.7 mm), MBM188798, body, lateral view. All scales, 2 mm.