新羅の新タイプから中日本の新羅を考察する

著者

密川 千代

引文

PUBLICATIONS OF THE SETO MARINE BIOLOGICAL LABORATORY (1957), 6(1): 75-78

発行日

1957-06-30

URL

http://hdl.handle.net/2433/174572

タイプ

部屋の版紙
A NEW PORCELLANID CRAB FROM MIDDLE JAPAN

SADAYOSHI MIYAKE
Zoological Laboratory, Faculty of Agriculture, Kyushu University, Fukuoka

With 3 Text-figures

A new species of *Porcellana* described below was taken in the Tanabe Bay, Wakayama-ken, living commensally with spicular corals, *Dendronephthya gloriosa* and *D. castanea*.

I wish to express my hearty thanks to Dr. Huzio UTINOMI for his courtesy in handing the material over to me. I am also grateful to Prof. Dr. Yoshi Kuni HIRAIWA of the Kyushu University for his constant guidance.

*Porcellana maculata* sp. nov.

*Diagnosis.*—Carapace and legs smooth, glabrous; carapace slightly convex, not at all areolated; front as a rule four-lobed, of which median two lobes very broad. There is an acuminate tooth behind the post-ocular angle; lateral margin of carapace with an acute tooth. First peduncle of antennule with a few granulated ridges; inner angles of both anterior crests projecting upwards. Merus of third maxilliped with a round crest. Chelifeds unequal. Wrist with a laminate crest along the inner margin, the crest is entire in larger individuals, but serrated in smaller ones; fingers of the larger cheliped with an obtuse tooth on both inner margins, but those of the smaller one with minute teeth. Ambulatory legs of a moderate length; propodus with three or four spinules; dactylus with three spinules. Telson seven-lobed, the central one being very small. This species is commonly found on spicular corals, *Dendronephthya*. Carapace and cheliped marked with red spots.

*Description of holotype*—Male, cl.35 3.8mm, cb.40 3.3mm. Carapace slightly longer than broad, a little convex, smooth, not at all areolated. Front four-lobed, much produced forwards. There is an acuminate tooth behind the post-ocular angle. Lateral margin of carapace armed with an acute tooth.

First peduncle of antennule a little longer than broad, ventral surface smooth, upper surface furnished with a few granulated ridges running transversely, inner angles of both anterior crests projecting upwards. Peduncles of antenna smooth, cylindrical; second peduncle armed with an acuminate spinule on upper margin. The relative lengths of basal peduncles are II: III: IV = 1: 1.3: 1. Third maxilliped smooth; ventral surface of ischium ornamented with oblique ridges, the crest of merus much produced inwards.

Cheliped unequal, the right one being larger; surface smooth, glabrous like the carapace. Arm longer than broad, upper anterior margin undulated; its upper distal end of the right side acuminate, but that of the left obtuse; the lower margin prolonged at its distal end into rather acute spine. Wrist longer than broad, and provided with a laminate, entire crest on inner margin. The length of palm a little longer than twice the breadth, its lower surface slightly produced. Fingers of right side very short, and one-third the palm; immovable finger armed with an obtuse tooth at the middle of inner margin; movable finger also with an obtuse tooth at the base. Fingers of left (smaller) side rather slender, a little longer than half the length of palm, and furnished with minute teeth along the inner margin; there is no gap between fingers.

Ambulatory legs smooth, glabrous, of a moderate length. Merus unarmed, 3.5 times as broad as long. Carpus furnished with a few hairs on outer distal margin. Propodus 3.8 times as broad as long, and armed with four spinules, of which the two at distal end being in pair, another one just in front of them, and the remaining one

Fig. 1. Porcellana maculata sp. nov., male, holotype, ×8.
A New Porcellanid Crab from Middle Japan

at the middle of the segment; the last mentioned spinule is absent from the first and third pairs.

Telson: seven-lobed, the central lobe being very small.

Paratypes.—Two males, cl. 2.6, cb. 2; cl. 2.5, cb. 1.7 mm. These specimens are very similar to the holotype, differing in only a few characters.

Front four-lobed, of which median two lobes subdivided irregularly into many minute teeth on inner margins; wrist armed with three acuminate teeth on inner margin.

Colour in alcohol.—Light brown, marked with reddish colour-patterns as in the text-figure 1.

Relationships.—This species is closely allied to Porcellana armata DANA, but may be distinguished from it at first sight by the characters of the median lobes of carapace and chelipeds.

Disposition of types.—Holotype (S.M.B.L. Type 164), male is deposited in the Seto Marine Biological Laboratory, Shirahama, Wakayama-ken. Paratypes, two males, are deposited in the Zoological Laboratory, Faculty of Agriculture, Kyushu University, Fukuoka.

Type locality and habitat.—The specimens of holotype and paratypes were taken from the shore of Shisō-jima, Tanabe Bay, Wakayama-ken, on May 1, 1954, living

---

Fig. 2. Porcellana maculata sp. nov., holotype.

a, Outer view of right chela, ×12. b, outer view of left chela, ×12. c, telson, ×12. d, lower view of left third maxilliped, ×25. e, lower view of first peduncle of left antennule, ×40. f, second ambulatory leg, ×8. g, third ambulatory leg, ×8.
commensally with *Dendronephthya gloriosa* Utinomi, collected by a gill-net of spiny-lobster fishing.

**Remarks.**—According to Mr. Torao Yamamoto, this species is found at the shore of Susami, Wakayama-ken, in April, 1954, attached to *D. gloriosa*. And also found in Tanabe Bay, attached to *D. castanea* Utinomi.

---

**Fig. 3.** *Porcellana maculata* sp. nov., male, paratype.

*a*, Dorsal view of carapace, ×10.  
*b*, ventral view of left cheliped, ×10.  
*c*, dorsal view of right cheliped, ×10.

---

**LITERATURE CITED**

