

The Indo-Pacific Pilumnidae XIII. On a New Species, *Pilumnus acanthosoma* (Crustacea: Decapoda: Brachyura), from Taiwan and the South China Sea, with Notes on *P. dofleini* Balss, 1933

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Peter K. L. Ng (2000) The Indo-Pacific Pilumnidae XIII. On a new species, *Pilumnus acanthosoma* (Crustacea: Decapoda: Brachyura), from Taiwan and the South China Sea, with notes on *P. dofleini* Balss, 1933. *Zoological Studies* 39(4): 301-306. The identity of the endemic Japanese pilumnid crab *Pilumnus dofleini* Balss, 1933, is clarified, redescribed and figured in detail. A new allied species from southern Taiwan and the South China Sea, *P. acanthosoma*, is described. *P. acanthosoma*, however, can easily be distinguished from *P. dofleini* by numerous carapace, ambulatory leg, male abdominal, and male gonopodal characters.

Key words: Pilumnidae, *Pilumnus acanthosoma*, Taxonomy, Taiwan, South China Sea.

Over the last few years, the author has examined a series of very spinose *Pilumnus* specimens from southern Taiwan which superficially resemble *P. dofleini* Balss, 1933, a species first described from Sagami Bay, Japan, and which has not been reported elsewhere thus far. Compared to the descriptions and figures provided by Balss (1933) and Sakai (1939 1965 1977) of *P. dofleini*, the Taiwanese specimens seem to be even more spinulose and to have proportionately longer ambulatory legs.

Recently, the author had an opportunity to compare Japanese specimens of *P. dofleini* with the specimens from Taiwan. It is clear that the Taiwanese specimens represent a new species (here named *P. acanthosoma*) which is herein described as such. The present paper also re-describes *P. dofleini*. The abbreviations, G1 and G2, are used for the male 1st and 2nd pleopods, respectively. Measurements provided are of carapace width and length. Specimens examined are deposited in the Taiwan Museum, Taipei (TMCD); National Taiwan Ocean University, Keelung (NTOU); Beijing Natural History Museum (BNHM); National Science Museum, Tokyo (NSMT); and Zoological Reference Collection of the Raffles Museum, National Univ. of Singapore (ZRC).

TAXONOMY

Pilumnus dofleini Balss, 1933

(Figs. 1, 2)

Pilumnus dofleini Balss, 1933: 29, pl. 6, fig. 29; Sakai 1939: 538 (no specimen); Sakai 1965: 159, pl. 70, fig. 1; Sakai 1976: 489, pl. 175, fig. 2; Miyake 1983: 134, pl. 45, fig. 5; Utsumi 1990: 140; Muraoka 1999: 51.

Materials examined: 3 ♂♂ (largest 14.2 by 11.4 mm), 1 ovigerous ♀ (16.4 by 13.4 mm) (NSMT 6665), st. 4, Shunkurose, off Izu Is., Japan, 160-230 m, coll. T. Okutani, 26 Nov. 1974. One ovigerous ♀ (NSMT 6666), Hoyotanse, off Izu Is., Japan, coll. T. Okutani, 26 Jun. 1973.

Description of male: Carapace transversely ovoid, regions weakly defined, surface of regions covered with scattered rounded granules, covered with numerous scattered short, stiff setae; grooves between regions smooth, glabrous. Frontal margin granulated, separated medially by shallow, broadly V-shaped cleft; inner and outer lobes barely separated by shallow cleft; lobes low, rounded; inner supraorbital tooth low, granuliform, separated from inner frontal tooth by cleft. Supraorbital margin granulated, small cleft present on outer 1/3. Antero-lateral margin with 4 well-marked teeth (including