

Remarks. The first two females have a rostral dentition of 4/0 and the other three females have 6/0, 6/0 and 5/0, and agree closely to the original description. The ova are 0.5 mm in diameter. The characteristic hamate dactyl on the second pereopod has been preserved in three specimens.

This species has been previously recorded in association with the gorgonian *Mopsella ellisi* Hicks.

Distribution. Type localities, Djedan Is., Aru Islands and Ternate, Indonesia. Otherwise only recorded from Noumea, New Caledonia. The present specimens are the first to be recorded in the Indian Ocean.

Pontonides unciger Calman

Pontonides unciger Calman, 1939: 213-215, fig. 7.

?*Pontonides unciger* Holthuis, 1952: 18, 219-223, figs 108-109. Miyake & Fujino, 1969a: 87-92, fig. 1.

Material examined. 1♂, 1♀, Baie d'Ampasindava, Nosy Tanga, 40 m, 29 October 1970, coll. P. Laboute.

Remarks. The specimens agree precisely with the description provided by Calman, and show numerous differences from the material reported upon by Holthuis (1952) and Miyake & Fujino (1969), which is considered to be specifically distinct. The specimens will be described in detail in a review of the genus in preparation. *P. unciger* may be recognized by the absence of areolation of the body, and lack of a dorsal tubercle on the eyestalk and the presence of flattened elongated setae on the lateral aspects of the ischial portions of the second and third maxillipeds and absence of such setae from the ischia of the second pereopods.

It is of interest that the present specimens were found in association with an antipatharian host, whereas the specimens reported upon by Miyake & Fujino were found on the coral *Dendrophyllia ijamai* Yabe.

Distribution. Type locality, southern Red Sea, 13° 31'N, 42° 31'E. There have been no further records of this species.

Pontonides sp. (Fig. 43)

Material examined. 3♂, 9 ovig.♀, NW coast of Madagascar, 13° 42.5'S, 47° 51.2'E, trawl, 33 m, 31 July 1973, coll. A. Crosnier.

Remarks. These specimens show a close resemblance to *P. unciger* Calman, but there are a number of points of differences that make the taxonomic status of this material difficult to assess without re-examination of the type specimen of *P. unciger*. The specimens will be reported upon in more detail in a future publication. They appear to differ from *P. unciger* in having broader lateral rostral carinae, that distinctly cover the base of the eyestalks, but do not extend to the tip of the rostrum, with a more elevated posterior dorsal rostral carina with more convex dorsal margin, and with acute points on the posterior margins of the fourth and fifth pleura, which are particularly well developed in the males. The eyestalk is without a dorsal tubercle.

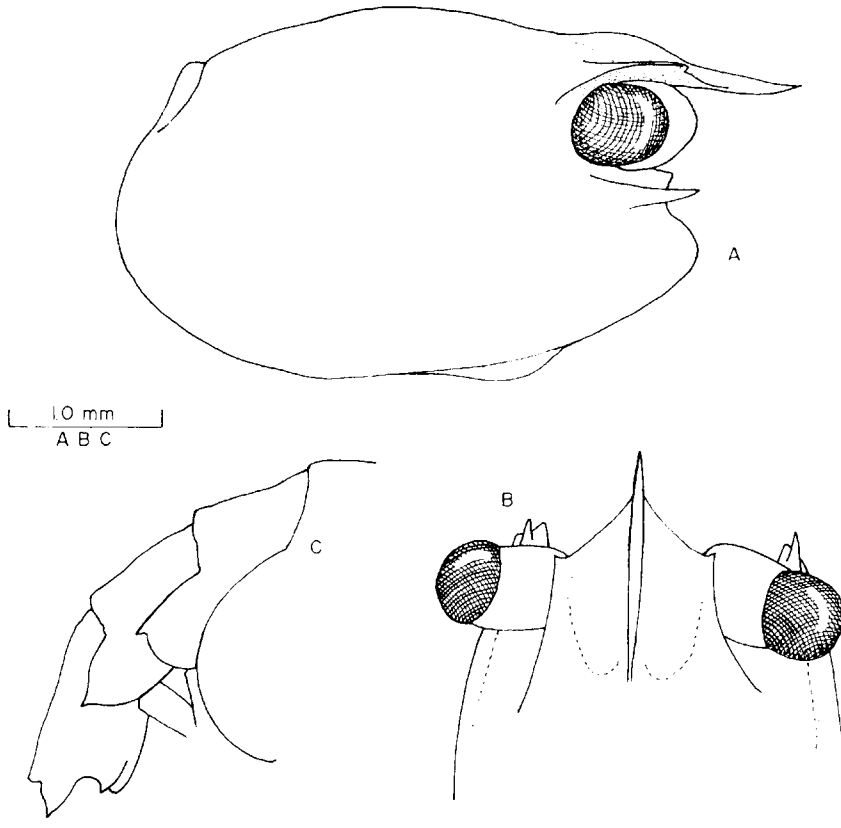


Figure 43. *Pontonides* sp. A. Carapace and rostrum, lateral; B, anterior carapace and rostrum, dorsal; C, posterior abdomen, lateral.

Anchistioides willeyi (Borradaile) (Fig. 44)

Restricted synonymy:

Palaemonopsis willeyi Borradaile, 1897: 410-411, pls 36, 37, fig. 7.

Anchistioides willeyi Gordon, 1935: 344-345, figs 23a, 24a. Holthuis, 1952: 18, 214-219, figs 106, 107. Bruce, 1971a: 22-24, fig. 8.

Material examined. (1) 2♂, 1 ovig.♀, Madagascar, near Tany-Kely, trawl, 28 m, 26 February 1971, coll. A. Crosnier. (2) 1 ovig.♀, 12° 55.2'S, 48° 28.3'E, trawl, 42 m, 2 August 1973, coll. A. Crosnier. (3) 1♂, 12° 59.9'S, 48° 28.2'E, trawl, 42 m, 2 August 1974, coll. A. Crosnier. (4) 1♂, 13° 07.3'S, 48° 25.8'E, trawl, 30 m, 2 August 1974, coll. A. Crosnier.

Remarks. The specimens are of particular interest as they fall into two groups that may represent separate species, but the study of further material is necessary before this is confirmed. The differences between the two forms lie in the rostrum and the chela of the second pereopod. In one group the rostrum is elongated, extending well beyond the scaphocerite and with more numerous teeth, in association with a second pereopod chela that is comparatively slender, particularly the fingers, which are distinctly longer than the palm. In this group, represented by four specimens, the carapace and rostral dentition are as follows: ♂, CL 8.4, 11/6; ♂, CL 6.0, 8/6; ♂, CL 4.8, 11/6; ovig.♀, CL 6.0, 13/6. The second form is represented by two specimens only, ♂, CL 6.5, 6/3; ♀,

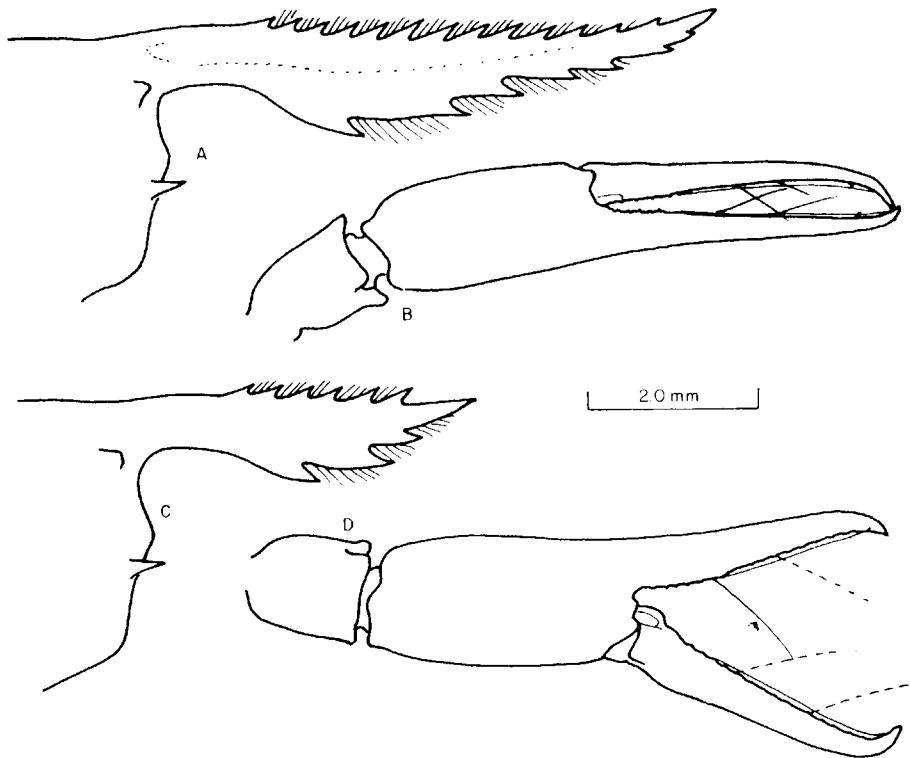


Figure 44. *Anchistioides willeyi* (Borradaile). Long rostrum form: A, anterior carapace and rostrum, B, chela of second pereiopod. Short rostrum form: C, anterior carapace and rostrum; D, chela of second pereiopod.

CL 10.0, 7/4. In these specimens the rostrum presents a bare distal portion, whereas this portion is distinctly dentate in the former group. In the ♂ with a dentition of 8/6, the rostrum extends well beyond the tip of the scaphocerite and there is no bare tip. The differences between the rostra of the two groups may be summarized as (i) 8-13/6, and (ii) 6-7/3-4.

The specimen reported by Bruce (1971a: fig. 8) from the Great Barrier Reef, closely corresponds to the short rostrum-robust chela form. The holotype of Borradaile's species also clearly belongs to the short rostrum form, with a dentition of 6/4, and in his illustration (1898: pl 35, fig. 7a) the palm of the chela of the second pereiopod appears stout and of similar length to the fingers.

Distribution. Type locality, Ralun, New Britain. Subsequently reported from the Aru Islands, Sulu Archipelago and Bornea Bank; the Great Barrier Reef, and from the Maldive Islands. Not previously recorded from the southern Indian Ocean.

THE PONTONIINE SHRIMP FAUNA OF MADAGASCAR

In addition to the 41 species reported upon above, twenty other species have been recorded from Madagascar or adjacent waters. The records of these species are summarized below.

1. *Periclimenes edwardsi* (Paulson, 1875). Reported from Tulear by Ledoyer (1968).

2. *Periclimenes elegans* (Paulson, 1875). Noted as occurring at Tulear (Hipeau-Jacquotte, 1973).
3. *Periclimenes spiniferus* (De Man, 1902). First reported from Tamatave by Lenz (1910) and subsequently from Tulear by Ledoyer (1968) and Hipeau-Jacquotte (1973).
4. *Periclimenes seychellensis* Borradaile, 1915. Recorded from Tulear by Ledoyer (1968, 1970).
5. *Periclimenes andamanensis* Kemp, 1922. Reported from Tulear by Ledoyer (1970).
6. *Periclimenes rex* Kemp, 1922. Reported from Tulear in association with holothurians, actinians and asteroids (Jacquotte, 1964; Hipeau-Jacquotte, 1972, 1973).
7. *Anchistus demani* Kemp, 1922. From *Tridaena maxima* at Tulear, (Hipeau-Jacquotte, 1973).
8. *Neoanchistus cardiodytes* Bruce. Recorded from Nosy Bé, in association with *Cardium pectiniforme*, Born (Bruce, 1975c).
9. *Platypontonia hyotis* Hipeau-Jacquotte, 1971. First recorded in association with *Pycnodonta hyotis* from southwest Madagascar (Hipeau-Jacquotte, 1971, 1973).
10. *Dasella* sp. Recorded from Tulear by Hipeau-Jacquotte (1973).
11. *Pontonia ascidicola* Borradaile, 1898. Reported from Tulear by Hipeau-Jacquotte (1973).
12. *Pontonia katoi* Kubo, 1940. Reported from Tulear by Hipeau-Jacquotte (1973).
13. *Harpiliopsis beaupresii* (Audouin, 1825). Reported from Tulear by Hipeau-Jacquotte (1973).
14. *Ischnopontonia lophos* (Barnard, 1962). Reported from Tulear by Hipeau-Jacquotte (1973).
15. *Coralliocaris graminea* (Dana, 1852). Reported from Juan de Nova by Lenz (1905) and from Tulear by Hipeau-Jacquotte (1973).
16. *Jocaste lucina* (Nobili, 1901). Reported from Tulear by Ledoyer (1968).
17. *Zenopontonia noverca* (Kemp, 1922). Reported from Nosy Bé in association with *Culcita schmiedeliana* Retzius (Bruce, 1975b).
18. *Tuleariocaris holthuisi* Hipeau-Jacquotte, 1965. First recorded from Tulear in association with *Stomopneustes variolaris* (Lam.), and *Echinometra mathaei* (De Blainville), (Hipeau-Jacquotte, 1965, 1973).
19. *Tuleariocaris zanzibarica* Bruce, 1967. Reported from Nosy Bé and Nosy Tanikely on *Diadema setosum* by Fricke & Hentschel (1971).
20. *Apopontonia falcirostris* Bruce. Known only from 73 m off NW Madagascar (Bruce, 1976a).

The subfamily Pontoniinae is therefore now represented in Madagascar waters by a total of 61 species. Undoubtedly many more remain to be discovered, as many common and widespread Indian Ocean species, such as *Periclimenes zanzibaricus*, have not yet been recorded. The fauna is richer than that reported from the Seychelle Islands (Bruce, 1976b) which consists of 50 species, and is considerably richer than that so far reported from Australia, including the Great Barrier Reef, which has a total of only 43 species (Patton, 1966; McNeil, 1968; Bruce, 1971). In comparison the fauna of Indonesia and the Philippine Islands, reported upon by Holthuis (1952) in the Siboga

Expedition monographs, consists of 69 species. Of the 61 Madagascar species, 29 have also been reported from the Indonesian region.

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