

Genus *Proboloides* Della Valle

*Proboloides runda*, new species

Fig. 16

DIAGNOSIS: Eyes absent; antennae quite long; article 2 of first antenna 1.6 times as long as article 1; accessory flagellum absent; first gnathopod with article 6 three fourths as long as article 5, bearing a distinct palm which is defined by a group of 5 stout dispersed spines, its article 4 not strongly produced; gnathopod 2 with medial side of article 3 sharply produced forward, its article 4 with a sharp distally produced tooth, its article 6 of intermediate slenderness, its palm quite distinct, oblique, shorter than hind margin of article 6, with a flat-bottomed excavation for half its length, the entire length sculptured into bead-like processes, defined by a slight process bearing 2 spines; fourth articles of pereopods 3-5 narrow, scarcely produced; telson with 3 lateral spines on each side.

Palp of mandible triarticulate, palp of maxilla 1 biarticulate.

HOLOTYPE: AHF No. 5910, male, 5 mm; no brood plates, no penial projections.

TYPE LOCALITY: Station 6809, off Santa Cruz Island, 33-54-39 N, 119-46-24 W, 302 fathoms, December 22, 1959, bottom of shale, mud, sand.

MATERIAL: Station 6809, (3 specimens; the two besides the holotype are in fragments).

RELATIONSHIP: Most species of *Proboloides* are distributed in the southern Hemisphere and most of them belong to the subgenus *Metopoides* which has a small accessory flagellum. In the northern Hemisphere apparently the only other species to have the narrow, unproduced fourth article of pereopod 3 is *P. grandimanus* (Bonnier 1896, Bay of Biscay, 950 m) another deep water species like the present one. Bonnier has drawn that species with an eye on one drawing and none on the other, and mentions small round eyes in his description, but one wonders whether this might be part of the brain which resembles an eye on the present specimens. The second gnathopods of the new species differ considerably from those of *P. grandimanus*, and the latter is aberrant for its large first coxa and small second one.

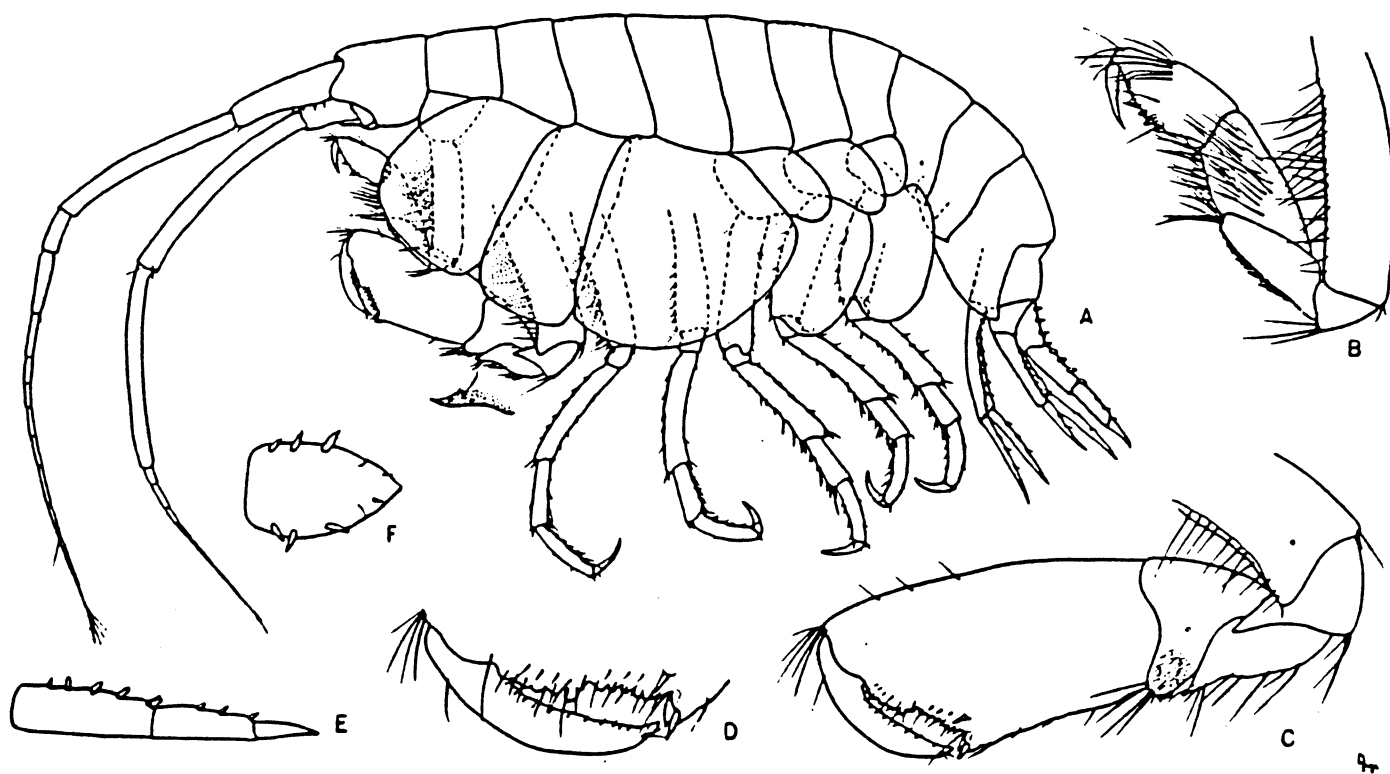


Fig. 16. *Proboloides tunda*, n. sp. ?Male, holotype, 5.0 mm, sta. 6809: A, lateral view; B,C,D, gnathopods 1, 2, 2; E, uropod 3; F, telson.

*Proboloides tunda* J. L. Barnard

(Fig. 44)

*Proboloides tunda* J. L. Barnard 1962c: 147-149, fig. 1b.

*Canyon material*: 7041(2), 7290(3).

*Remarks*: The second gnathopod illustrated here is more fully developed than that shown by Barnard (1962b).

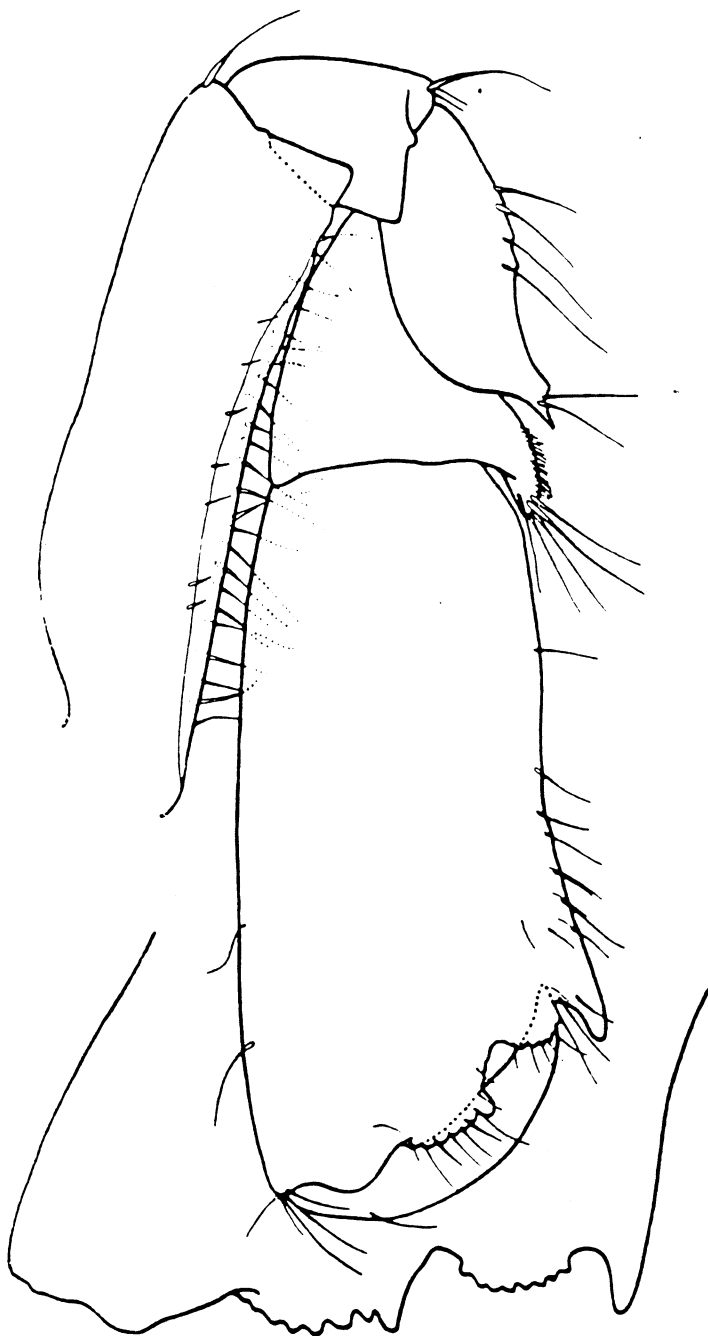


Figure 44

*Proboloides tunda* J. L. Barnard. Male, 3.5 mm, sta. 7290: gnathopod 2 and enlargement of palm.