

Metopa (Prometopa) samsiluna, new species

(Fig. 42)

Diagnosis: Assigned to the subgenus *Prometopa* Schellenberg by possession of a vestigial accessory flagellum; mandibular palp 3-articulate, first maxillary palp uniaarticulate; eyes absent; antennae very long, subequal, peduncular articles of both antennae elongated, article 2 of antenna 1 longer than article 1; coxa 2 very broad; gnathopod 1 short, with distinct palm, article 6 expanded, article 7 short, fitting palm, not setose, article 4 strongly projecting posteriorly along article 5, article 2 strongly setose anteriorly; palm of gnathopod 2 with a large medial tooth, defining corner with large tooth; lobe on article 2 of pereopods 4 and 5 narrowing posterodistally, article 4 narrow, scarcely decurrent, telson spinose.

Holotype: AHF No. 6013, female, 4.5 mm. Unique.

Type locality: Station 6840, San Clemente Rift Valley, California, 32°-44'-35" N, 118°-12'-45" W, 1620 m, January 30, 1960.

Relationship: This species differs from *M. boeckii* Sars (1895: pl. 88) in the presence of the medial palmar tooth on the second gnathopodal palm, the narrower distoposterior lobes on article 2 of pereopods 4-5, the broader second coxa and the shorter first gnathopod with a more projecting fourth article and more distinct palm.

From *M. spectabilis* Sars (1895: pl. 87) this species differs in the equal antennae.

Metopa alderi (Spence Bate) (Sars 1895: pl. 86) is closely related and *M. samsiluna* may be a form of *M. alderi* but it differs in the lack of eyes, the spinose telson, the longer antennae, the better developed medial palmar tooth of gnathopod 2 and the narrower distoposterior lobes on article 2 of pereopods 4-5.

The new species resembles *M. aequicornis* Sars (1885), especially in the long, equal antennae and large coxa 2, but differs in the narrow, scarcely decurrent fourth articles of pereopods 4 and 5 and the spinose telson.

Metopa layi Gurjanova (see 1951) has short articles 1 and 2 of antenna 1.

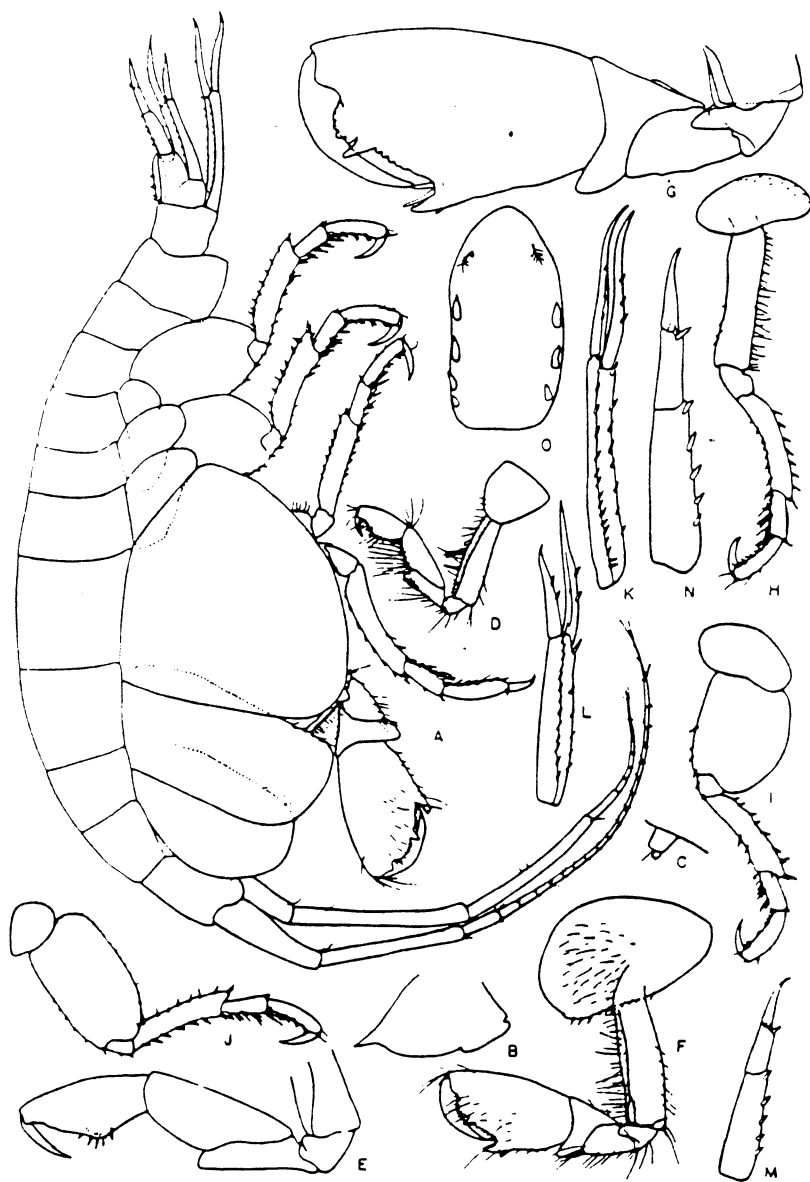


Figure 42

Metopa samsiluna, new species. Holotype, female, 4.5 mm, sta. 6840: A, lateral view; B, epistome; C, accessory flagellum; D,E, gnathopod 1; F,G, gnathopod 2; H,I,J, pereopods 3, 4, 5; K,L,M,N, uropods 1, 2, 3, 3; O, telson.