

Key to the Species of Amphilochidae Reported in the Southern California Bight, SCAMIT Edition 14

(Modified from Hoover and Bousfield, 2001 by Dean Pasko, 23-May-2017)

INFRAORDER LEUCOTHOIDA

Superfamily Stenothoidea

FAMILY AMPHILOCHIDAE

Apolochus barnardi Hoover & Bousfield 2001

Apolochus litoralis (Stout 1912)

Apolochus picadurus (J. L. Barnard 1962)

Gitana calitemplado J. L. Barnard 1962

Hourstonius vilordes (J. L. Barnard 1962)

1. Gnathopods 1 & 2 small, weakly subchelate to simple, propodus not broadened distally; telson elongate, distally acute; accessory flagellum absent or very minute.....
.....*Gitana calitemplado*ⁱ
- Gnathopods 1 & 2 subchelate, propodus broadened distally; telson sharply rounded; flagellum small, 1-segmented.....2
2. Female brood plates on pereopod 5 longer than basis; gnathopods 1 & 2 sub-similar, both with propodus distally broadened, sub-triangular; mandibular molar large, triturative.....
.....*Hourstonius vilordes*ⁱⁱ
- Female brood plates on pereopod 5 small, about ½ of basis; gnathopods 1 & 2 dissimilar, gnathopod 1 propodus only slightly broadened distally (or not at all) while gnathopod 2 is distinctly broadened distally; mandibular molar vestigial*Apolochus*....3
3. Gnathopod 2, carpal lobe extending $\leq \frac{1}{2}$ the length of the propodus*Apolochus litoralis*
- Gnathopod 2, carpal lobe extending nearly the entire length of the propodus.....4
4. Gnathopod 2 with small projecting distal cusp above dactyl [best viewed by looking towards dorsal margin from ventral medial aspect]; gnathopod 1 palm distinctly oblique, carpal lobe extending about 50% of the length of the propodus hind margin*Apolochus picadurus*
- Gnathopod 2 without projecting distal cusp; gnathopod 1 palm slightly oblique, carpal lobe extending about 75% of the length of the propodus hind margin*Apolochus barnardi*ⁱⁱⁱ

References

- Barnard, J.L. 1962. "Benthic marine Amphipoda of Southern California; 3. Families Amphilochidae, Leucothoidae, Stenothoidae, Argissidae, Hyalidae." *Pacific Naturalist* 3(3): 116-163.
- Hoover, PM and EL Bousfield. 2001. "The amphipod superfamily Leucothoidea on the Pacific coast of North America: Family Amphilochidae: systematics and distributional ecology." *Amphipacifica* 3(1): 3-28.

ⁱ *G. ellisi* Hoover and Bousfield 2001 occurs in British Columbia and can be distinguished by the rostrum which projects straight forward over antenna 1 (rather than being downturned), by the projecting carpal lobe of gnathopod 2, and the distinctly subchelate, oblique palms of gnathopods 1 and 2 (as opposed to the nearly simple gnathopods of *G. calitemplado*)

ⁱⁱ *H. baciroa* (JL Barnard 1979) occurs in the Gulf of California to Galapagos and is distinguished from *H. vilordes* by having a thin posterodistal seta on the gnathopod 2 basis (instead of a stout spine), and a narrow, rounded coxa 2 (instead of a distally straight, subquadrate coxa 2).

ⁱⁱⁱ *A. staudei* Hoover and Bousfield 2001 occurs in British Columbia and can be distinguished by the very short rostrum and short antennae relative to *A. barnardi*.

Apolochus barnardi Hoover & Bousfield 2001

from Hoover & Bousfield 2001

Intertidal to 20m; estuarine and shallow bays

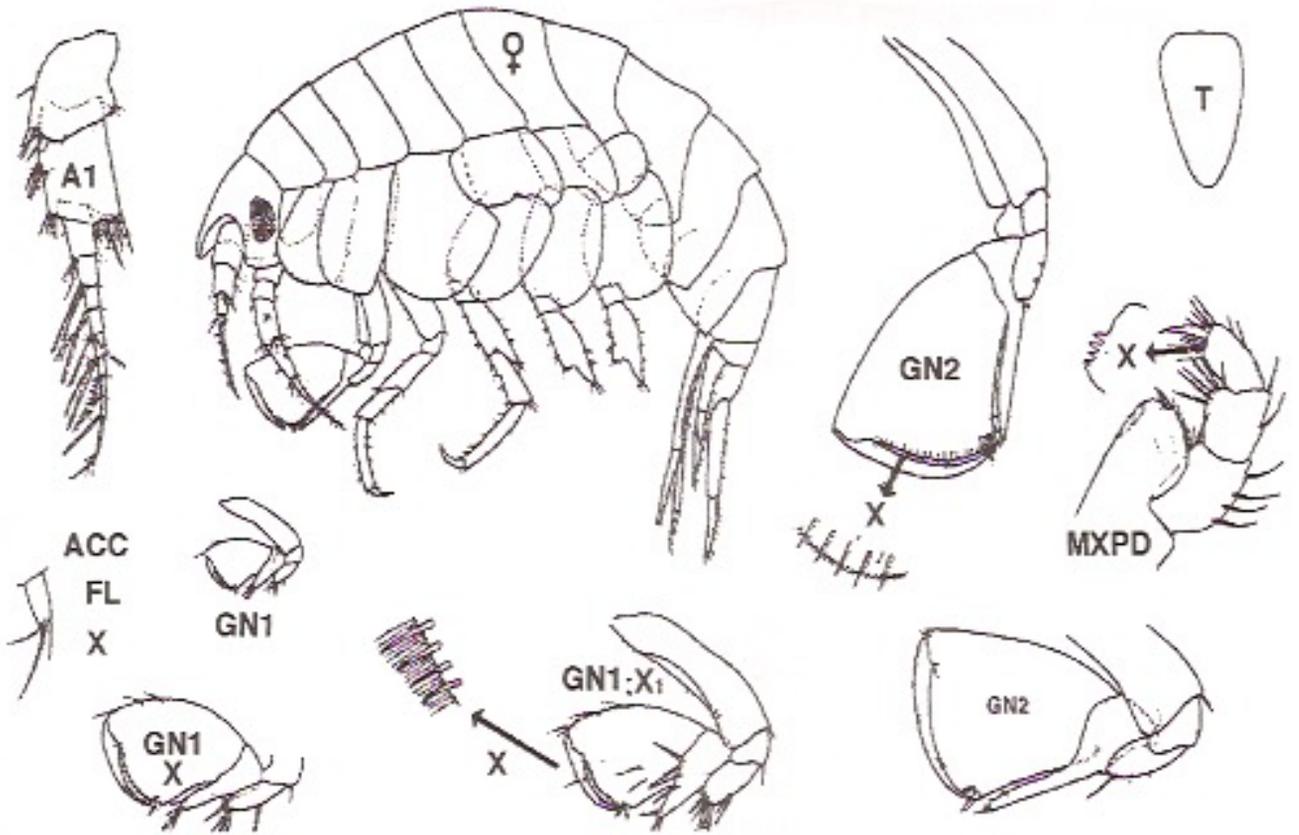


Fig. 6. *Apolochus barnardi*, new species (= *A. neopolitanus* cf. Della Valle fide J. L. Barnard, 1962) (modified from Barnard, 1962).

Apolochus litoralis (Stout 1912)

From Hoover & Bousfield 2001

Intertidal to 2 m; estuarine to shallow bays

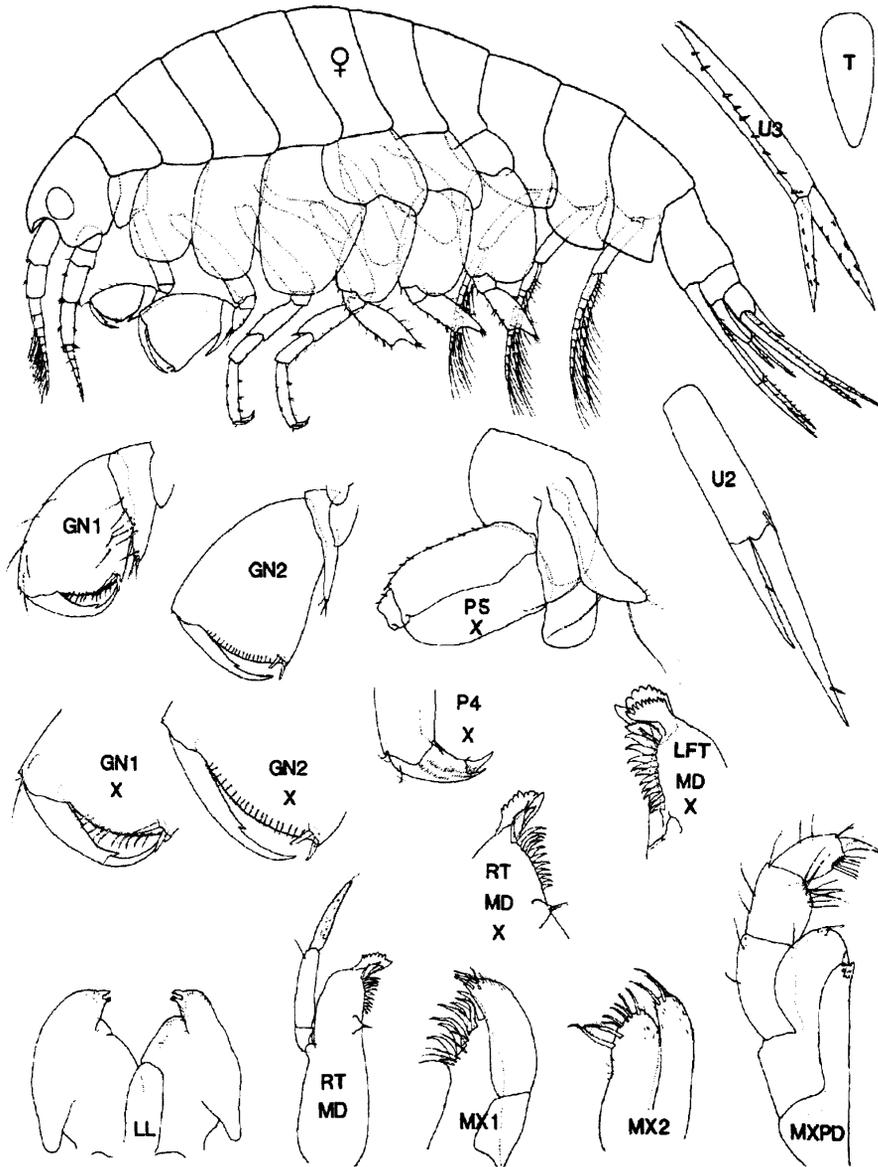


Fig. 5. *Apolochus litoralis* (Stout). Female ov. (2.8 mm)

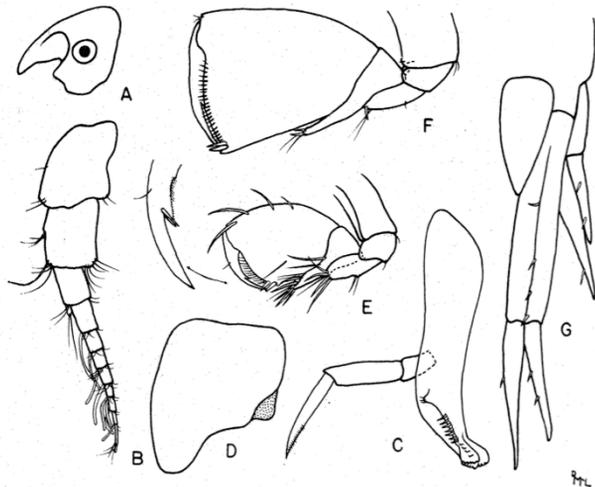


Fig. 2. *Apolochus litoralis* Stout. Female, 2.3 mm, Barnard sta. 27: A, head; B, antenna 1; C, mandible; D, coxa 1; E, F, gnathopods 1, 2; G, telson and uropods 3 and 2.

From Barnard 1962

Amphilocheus picadurus (J.L. Barnard 1962)

Intertidal to 6 m; estuarine to shallow bays

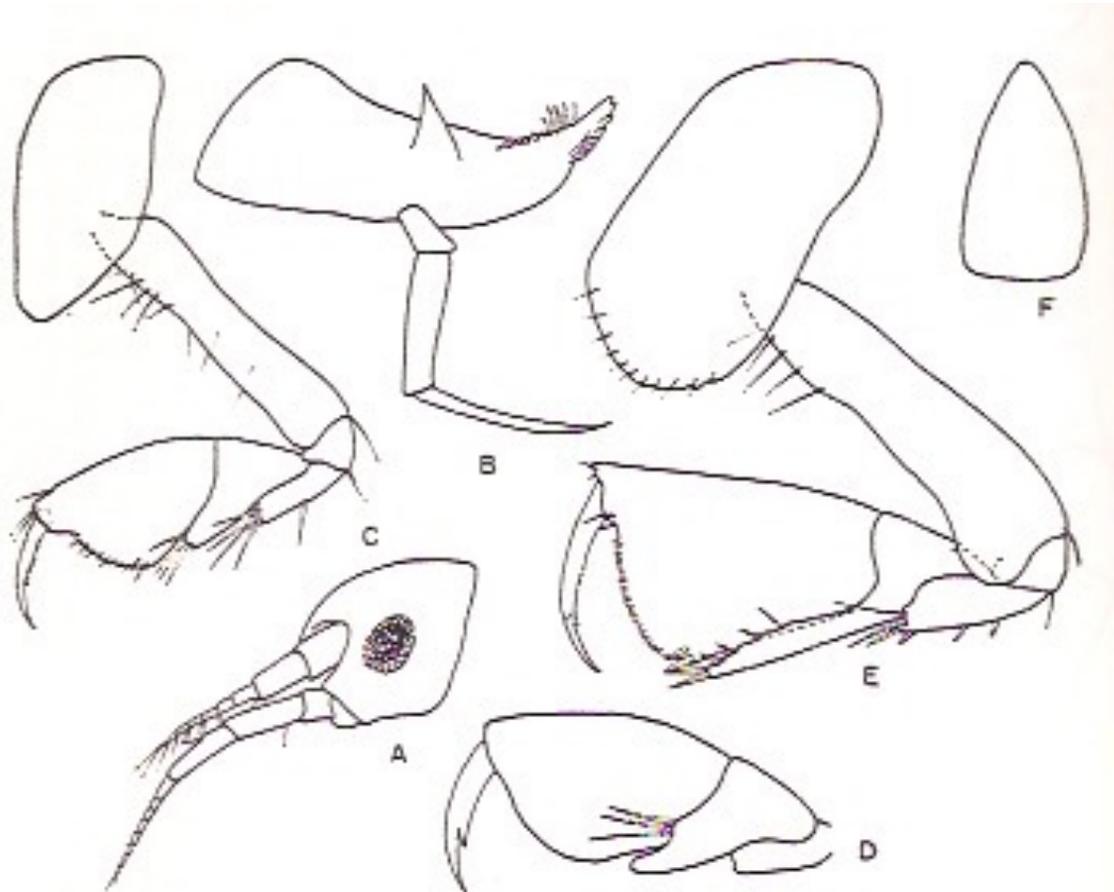


Fig. 4. *Amphilocheus picadurus*, n. sp. Female, 2.7 mm, sta. 4856; A, head; B, mandible; C,D, gnathopod 1; E, gnathopod 2; F, telson.

From Barnard 1962

Gitana calitemplado J.L. Barnard 1962

9 – 27 m; bays, harbors and protected outer coasts

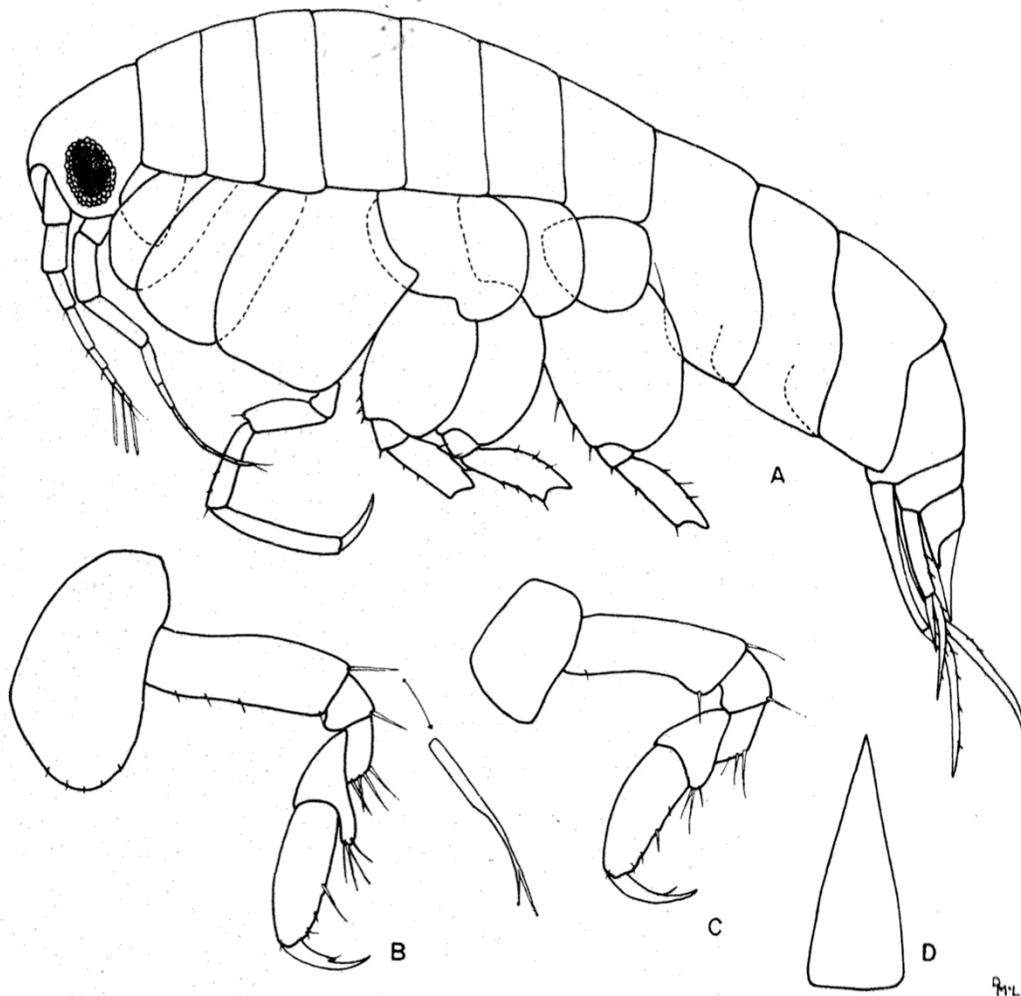


Fig. 5. *Gitana calitemplado*. n. sp. Female, 2.0 mm, sta. 4863: A, lateral view; B, C, gnathopods 2, 1; D, telson.

Hourstonius vilordes (J.L. Barnard 1962)

Intertidal to 10 m, shallow bays and harbors

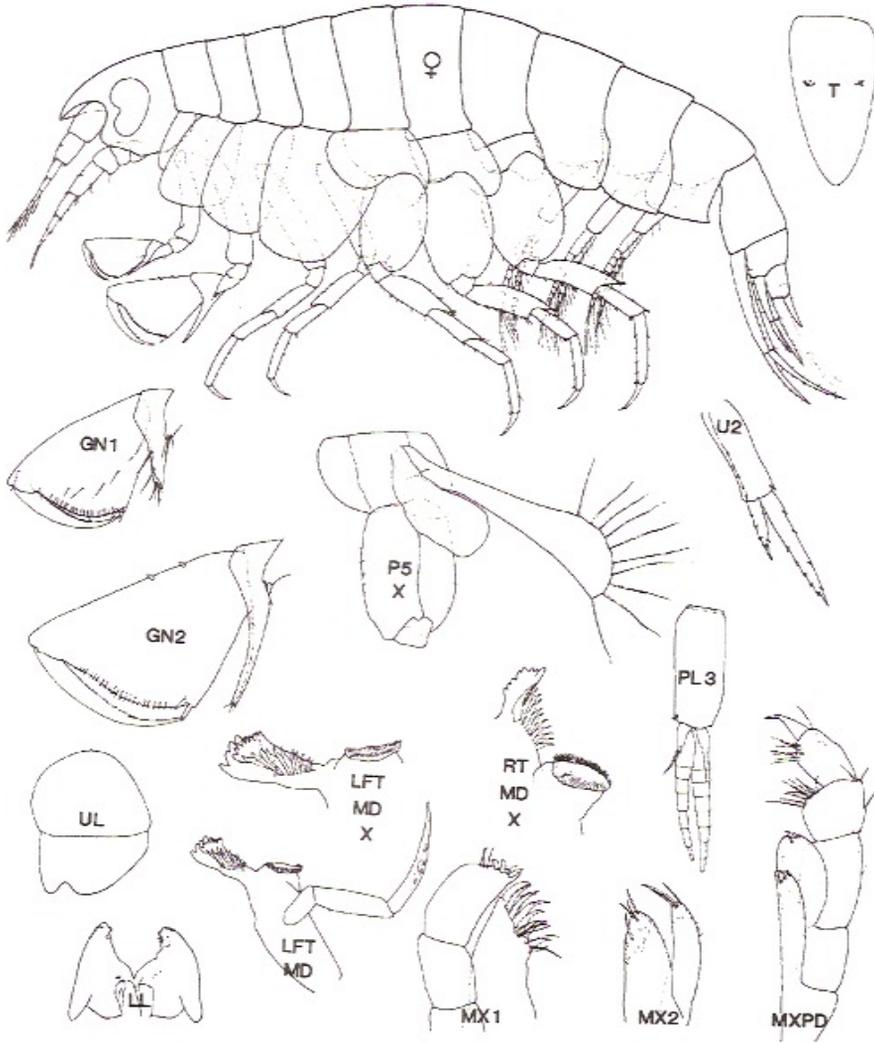
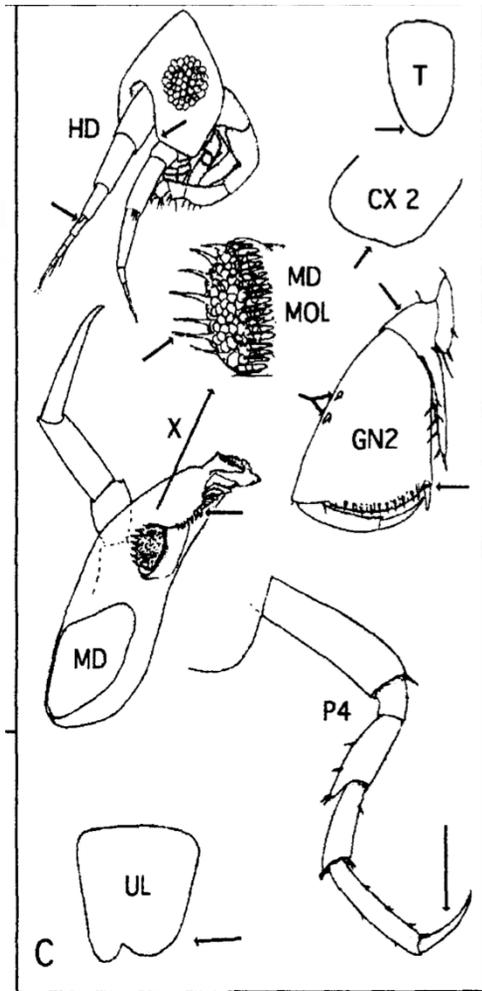


Fig. 3. *Hourstonius vilordes* (Barnard). ♀ ov. (3.9 mm). Hinks I., N. end Aristazabel I., B. C.

From Hoover & Bousfield 2001



Character states of *Hourstonius*. *Hourstonius laguna* (after McKinney 1978). From Hoover and Bousfield, 2001