Aoridae (Amphipoda: Corophioidea)
from the Austral Isles

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ABSTRACT. Six species of aorid amphipod are recorded from the Austral Isles. Two new species are described and figured.


Six species of aorid amphipod were collected in 0–3 m depth in the Austral Isles by J.K. Lowry and J.M. Poupin during August, 1991. Two species, Bemlos callistemon n.sp. and Globosolembos rimatara n.sp. are new to science and one species Aoroides vitiosus Myers was previously known only from Papua New Guinea. The remaining three species are known to be widespread in the western Pacific. The new species are described and figured.

Abbreviations used in figures. G, gnathopod; L, labium; Md, mandible; Mx, maxilla; P, pereon (sternal spines); U, uropod; x, palm.

Aoroides Walker
Aoroides vitiosus Myers, 1995


Material examined. AM P54524 (1♂, 11♀) lagoon in front of Puatai Rock, Avera, Rurutu, Austral Isles, 1 m, rubble and algae inside reef platform, 10 August 1991, J.K. Lowry; AM P54525 (22♂, 75♀), same locality, depth, collector and date, Sargassum-like alga from inner reef platform.

Remarks. In present material, the male gnathopod 2 has a normal merus with the distal margin oblique. In material from Papua New Guinea, the anterodistal margin of the merus of gnathopod 2 is extended so that the distal margin becomes transverse. This character state, together with a somewhat more elongate and slender merus on the male gnathopod 1, appears to be the only significant difference between present material and that from the type locality. For the present, the two materials are considered as conspecific.

Habitat. Amongst algae (Austral Isles) and sea grasses (Papua New Guinea) in shallow water.


Bemlos Shoemaker
Bemlos callistemon n.sp.

Figs. 1–2

Material examined. HOLOTYPE AM P47081 ♂. 4.8 mm. Reef platform in front of Mataura, Tubuai, Austral Isles, 1.5 m depth, calcareous and, bottle-brush red algae on coral outcrops, J.K. Lowry, 12 August 1991. PARATYPES AM P47081 (1♂, 3♀), same locality, habitat, collector and date, 0.5–2.0 m depth.

Description. Male. Head lateral cephalic lobes apically rounded; eyes clear (in alcohol), with a dark central core. Pereon with sternal spines on segments 1–3. Head
anteroventral margin moderately excavate, moderately recessed. Antenna 1 unknown. Antenna 2 slender, poorly setiferous; peduncular articles 4 and 5 subequal in length; flagellum with 6 articles, the terminal article rudimentary. Mandible palp article 3 360% longer than article 2, posterior margin straight, with setae of two distinct lengths. Maxilla 1 inner plate with one long pectinate apical seta. Labium outer plate with long mandibular processes and with both fine and stout distal setae. Maxilliped palp without wing-like flanges. Gnathopod 1 coxa subrectangular, unproduced, a little less than twice as long as broad; carpus short, cup-shaped; propodus more than three times length of carpus, palm short almost transverse, posterodistal margin sinuous, delimited from postero proximal margin by a strong acute spine, resulting in a deep V-shaped incision; dactylus elongate, greatly overlapping palm. Gnathopod 2 basis stout, anterior margin concave carpus about 20% longer than propodus; carpus and propodus slender, anterior margins densely clothed in long setae; dactylus overlapping palm. Pereopods 3–4 propodus posterior margin with about six strong, evenly spaced robust setae. Epimeron 3 posterodistal margin with small spine above notch bearing a small seta. Uropod 1 peduncle subequal in length with rami, interramal spine more than one third length of peduncle. Uropod 2 peduncle interramal spine well developed, two thirds length of peduncle; inner ramus almost one and one half times length of peduncle. Uropod 3 inner ramus longer than outer; and more than twice length of peduncle, outer ramus with small second article. Telson with fine setae only.

**Remarks.** This species is superficially similar to *Bemlos dolichomanus* from Australia (Bass Strait) but differs from that species in the broad and anteriorly concave basis and heavily setose carpus and propodus of the male gnathopod 2, in the more slender uropods 1–2, the longer mandible palp article 3, and the different configuration of the male gnathopod 1 palm.

**Habitat.** Red algae over coral sand.

**Distribution.** Known only from the type locality.

**Etymology.** From the plant genus *Callistemon* (Myrtaceae), in reference to the bottle-brush-like nature of the red alga from which the holotype was collected.

*Bemlos dentischium taparum* (Myers, 1985)


**Material examined.** AM P47080 AM (2♂♂). Reef platform in front of Mataura, Tubuai, Austral Isles, 2 m, calcareous and bottle-brush red alga on coral outcrops, J.K. Lowry, 12 August 1991; AM P47081 (7♂♂, 5♀♀); same locality, habitat, collector and date, 1.5 m, AM P54527 (1♂♂, 1♀♀, 3 immatures); same locality, collector and date, 0.5 m, brown algae on sides of old bommies; AM P54528 (1♂♂, 3♀♀). Near edge of lagoon at Rairua, Raivavae, Austral Isles, 3 m, mixed red alga from inner reef front, J.K. Lowry, 14 August 1991; AM P54529 (6♂♂, 12♀♀, 20 immatures); same locality, collector and date, 1 m, rubble and sand; AM P54532 (1♂♂, 3♀♀, 2 immatures). Point Maomao, Ha’urei Bay, Rapa, Austral Isles, 2 m, loose coral rubble, J.K. Lowry, 17 August 1991; AM P54531 (5♀♀) near edge of lagoon at Rairua, Raivavae, Austral Isles, 0.5–1 m depth, coarse
Fig. 2. *Bemlos callistemon* n.sp., Tubuai, Austral Isles. male paratype; female paratype gnathopod 1.

sand and rubble, J.K. Lowry, 14 August 1991; AM P54533 (2♂, 4♀), same locality, depth, collector and date, in rubble and sand; AM P54534 (1♂, 3♀, 3 immatures), same locality, collector and date, 0.5 m, small black sponge.

**Remarks.** Myers (1985b) described the subspecies *Bemlos dentischium taparum* on the basis of its pigmentation pattern. This small difference was justified by the fact that the nominate form was known only from Florida and the
Bahamas. Present material agrees well with the description of this subspecies from Tonga, Western Samoa and the Cook Islands.

**Habitat.** Shallow water (0–3 m) amongst algae and coral rubble.

**Distribution.** Cook Islands, Western Samoa, Tonga, Austral Isles.

**Bemlos tui** (Myers, 1995)


**Material examined.** AM P47079 (4♂♂, ♂♀). Lagoon in front of Puatai Rock, Avera, Rurutu, Austral Isles, 0.5 m, algae and mussels on shallow reef platform, 10 August 1991, J.K. Lowry; AM P54524 (6♂♂, ♂♀, 2 immatures), same locality, collector and date, 1 m, rubble and algae inside reef platform; AM P54526 (3♂♂, ♀♀, 11 immatures), same locality, depth, collector and date, Sargassum-like alga from inner reef platform; AM P54523 (4♂♂, ♀♀, 30 immatures). Small lagoon near Mutua Ura, Rimatara, Austral Isles, 1.5 m depth, coarse sand, 9 August 1991, J.K. Lowry & J.M. Poupin.

**Habitat.** In areas with low water movement and of consequence high silt levels, in algae, coral rubble, mussels.

**Distribution.** Papua New Guinea, New Caledonia, Western Samoa, and Rurutu in the Austral Islands.

**Remarks.** Specimens from the Austral Isles closely resemble those collected in Tonga (Myers, 1986).

**Habitat.** In sand and rubble, often in association with algae and phanerogammes.

**Distribution.** East Africa, Madagascar, north eastern Australia, New Caledonia, Tonga, Austral Isles.

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**Globosolembos Myers**

**Globosolembos excavatus (Myers)**


*Lembos processifer*—Ledoyer, 1984: 35 (in part), fig. 16 ("forme 2") (not L. *processifer* Pirlot, 1938: 330, figs. 147–149).

**Globosolembos** *excavatus*.—Myers, 1985a: 363, fig. 234.


**Material examined.** AM P54524 (4♂♂, ♂♀, ♀♀, 1 immature), lagoon in front of Puatai Rock, Avera, Rurutu, Austral Isles, 1 m depth, rubble and algae inside reef platform, J.K. Lowry, 10 August 1991; AM P47079 (1♀) same locality, collector and date, 0.5 m, sand, algae and mussels on shallow reef platform; AM P54531 (1♂, ♀♀, 2 immatures) near edge of lagoon at Rairua, Raivavae, Austral Isles, 0.5–1 m depth, coarse sand and rubble, J.K. Lowry, 14 August 1991.

**Remarks.** Specimens from the Austral Isles closely resemble those collected in Tonga (Myers, 1986).

**Habitat.** In sand and rubble.

**Distribution.** Known only from the Austral Isles.

**Etymology.** Named after the type locality.
Fig. 3. *Globosolembos rimatara* n.sp., Rimatara, Austral Isles, male paratype; female paratype gnathopod 1.
References


Associate Editor: G.D.F. Wilson.