Revision of the genus *Noculacia* Mayer, 1903 (Crustacea: Amphipoda: Caprellidea) with the description of two new species

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Abstract

The genus *Noculacia* Mayer, 1903 is reviewed. Two new species, *N. africana* n. sp. and *N. australiensis* n. sp., are described based on material collected from southeast Africa and western-southern Australia, respectively. *Noculacia bullata* Mayer, 1903, the type species of the genus, is redescribed. *Noculacia bogisa* Mayer, 1903 is transferred to the genus *Pseudoprotella* Mayer, 1890 mainly on the basis of the presence of a well developed molar, the structure of pereopods 3 and 4, and the setal formula of the mandibular palp being 2-x-1. The genus *Noculacia* is presently composed of three species: *N. africana* n. sp., *N. australiensis* n. sp. and *N. bullata* Mayer, 1903. The genus *Pseudoprotella* is composed of *P. bogisa* (Mayer, 1903), *P. inermis* Chevreux, 1927, and *P. phasma* (Montagu, 1804).

Key words: taxonomy, Crustacea, Amphipoda, Caprellidea, *Noculacia africana* n. sp., *Noculacia australiensis* n. sp., *Noculacia bullata*, *Pseudoprotella bogisa*, Africa, Australia

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Taxonomy

*Noculacia africana* n. sp.

**Diagnosis.** Head with a dorsal projection in males, smooth in females. Body smooth, without dorsal projections. No lateral projections. Setal formula of mandible palp 1-3-1. Inner lobes of lower lip rectangular and not fused. Propodus of gnathopod 1 with margin smooth. Pereopods 3 and 4 uni-articulate but almost separated in two articles.

**Type material.** Holotype: male (U. S. National Museum of Natural History, USNM 1006131), 24º 64¢ S 35º 20¢ E, 165 m, coll. University of Maine, 18 August 1964, Agassiz trawl. Paratypes: as holotype except: allotype pre-mature female (USNM 1006132), pre-mature female (USNM 1006133).

*Noculacia australiensis* n. sp.

**Diagnosis.** Head smooth. Body with dorsal projections on pereonites 2-5. A pair of lateral projections proximally on pereonites 3 and 4 (males) or 3 (females). Setal formula of mandible palp 1-4-1. Inner lobes of lower lip completely fused. Propodus of gnathopod 1 with margin denticulate. Pereopods 3 and 4 two-articulate.

**Type material.** Holotype: male (U. S. National Museum of Natural History, USNM 301728), Great Australian Bight, South Australia, 33º14’30”S 126º20’00”E, 183–192 m, coll. University of Maine, 8 September 1968, Exp. USARP, Vessel Eltanin R/V, Blake trawl. Paratypes: as holotype except: allotype female (USNM 1006129), female (USNM 1006130).

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**Pseudoprotella bogisa** n. comb.

*Noculacia bogisa* Mayer, 1903: 52–53; pl. 2, fig. 16; pl. 7, figs 7–8; pl. 9, figs 19, 39, 66; pl. 10, fig. 3. Arimoto (1970: 15); McCain & Steinberg (1970: 57); Arimoto (1971: 63–65, fig. 13); Arimoto (1976: 44–45, fig. 18); Arimoto (1980: 102–104, fig. 4); Takeuchi (1999: 10).


**Diagnosis.** Head to pereonite 2 with long dorsal projections with the formula 1-1-2-1 in males, 1-1-2 in females. Pereonites 2–4 with a pair of anterolateral projections in male. Pereopods 3 and 4 two-articulate with the distal article shorter than the proximal one.

**Type material examined** (syntypes). 1 male, 1 pre-mature female, 1 juvenile (ZMA Amph. 107219); 1 juvenile (ZMUC-CRU-3701). From Pulu Jedan, Arafura Sea and Kob Krau, Thailand (Mayer 1903, McCain & Steinberg 1970).

**Fig. 1.** *Noculacia africana* n. sp.; lateral views. A. male. B. female. Scale bar: 1 mm.

**Fig. 2.** *Noculacia australiensis* n. sp.; lateral views. A. male. B. female. Scale bar: 1 mm.

**References**


