



Periclimenaeus devaneyi* sp. nov., from Oahu, Hawai'i (Crustacea: Decapoda: Pontoniinae)

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Abstract

A new species of *Periclimenaeus*, *P. devaneyi* sp. nov., is described from Oahu, Hawai'i Islands. The new species is closely related to *P. minutus* and *P. jeancharcoti*, but can be distinguished from both species by the lack of transverse corrugations on the ungui of the ambulatory dactyls, and the absence of minute denticles on the corpus of the dactyli.

Key words: *Periclimenaeus devaneyi*, sp. nov., Crustacea, Decapoda, Pontoniinae, Oahu, Hawai'i, taxonomy

Introduction

Through the kindness of Dr L.G. Eldredge, Dr S.L. Coles and Anne Fielding, it has been possible to study a small collection of shrimps of the genus *Periclimenaeus* Borradaile, 1915 from the collections of the Bernice P. Bishop Museum.

Several specimens presented a unique feature that immediately distinguished them from all species of the genus *Periclimenaeus*, so far described, and an illustrated description is now provided. Unfortunately most of the specimens are in a badly damaged state with many appendages missing. A full description can be prepared from the specimens and their unique character, a particularly stout articulated spine on the distoventral carpus of the ambulatory pereopods, enables even badly damaged and incomplete specimens to be identified with certainty.

The specimens were collected in the course of studies of the fauna associated with scleractinian coral heads in shallow waters around Oahu, in the course of a study by S.L. Coles for the Environmental Department of the Hawaiian Electric Company. (A. Fielding, S.L. Coles, pers. com.) and reported upon by (Coles, 1980). Unfortunately the types of host with which the specimens were associated were not precisely recorded but most probably all were obtained from encrusting sponges or ascidians attached to the corals. The specimens are held mainly in the collections of the Bernice P. Bishop Museum, Honolulu, with one specimen donated to the Queensland Museum.

Abbreviations used: CL, post-orbital carapace length (mms): BPBM, the Bernice P. Bishop Museum, Honolulu; QM, Queensland Museum, Brisbane; ZMA, Zoology Museum, University of Amsterdam. Numbers, such as 6B #2, refer to the individual coral host colonies.

SYSTEMATICS

Family Palaemonidae Rafinesque 1815

Subfamily Pontoniinae Kingsley 1879

***Periclimenaeus* Borradaile 1915**