

***Protomedeia articulata* J.L. Barnard, 1962**

Nomenclature	
Phylum	Arthropoda
Class	Malacostraca
Order	Amphipoda
Family	Corophiidae
Authority	Barnard 1962
Original Description	Barnard, J.L. 1962.
Common Synonyms (S) Previous Names (PN)	

Distribution	
Type Locality	34°27'00"N, 120°08'30"W
Geographic Distribution	<i>Protomedeia articulata</i> has been recorded from Oregon (46°13'N, 124°90'W) to La Jolla, California (32°52'N, 117°16'W) (Conlan 1995)
Habitat	From 9 to 200 m depth on the exposed coastal shelf and in submarine canyons. According to Barnard (1971), the single record of this species from 906 m is suspect, due to uncertain identification. (Conlan 1995)

Description	

Specimen(s) Examined			
<i>Use Columns for Multiple Specimen Vial Number(s)</i>			
Specimen Vial Number *examined by J. Cordell	92*	1928*	1819*
Project	Temporal	1985 Elliott Bay	1986 Everett Harbor
Station	36R	PS-01	PS-02
Collection Date	4-5-1992	10-2-1985	10-13-1986
Collection Depth	15		
Number of Specimens	8	2	1

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Diagnostic Characteristics		
Diagnostic Characteristics	Photo, Illustrations	Photo, Illustration Credit
Uropod 3, both sexes, inner ramus about 2/3 length of outer ramus; outer ramus terminating in spines.		Conlan 1983, p. 28 (fig. 12)
Adult male gnathopod 1, carpus and propodus nearly equal in length; adult male gnathopod 2, propodus, posterior margin not toothed, dactyl curved.		Conlan 1983, p. 28 (fig. 12)

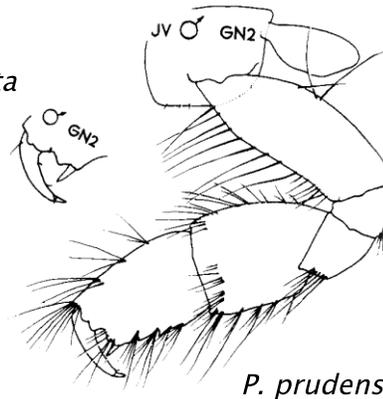
Related Species and Characteristic Differences	
Species Name	Diagnostic Characteristics
<i>Protomedeia prudens</i>	Adult male gnathopod 1, carpus quarter longer than propodus. Adult male gnathopod 2, propodus, posterior margin toothed, dactyl straight or sinuous.

Comments
<p>J. Cordell: <i>Protomedeia articulata</i> has not been reliably reported from Puget Sound. The three Ecology reference vials listed above contain what are probably females and immature males of <i>P. prudens</i>. Note that Conlan (1995) states that “unfortunately juveniles and adult females of the two species are difficult to distinguish”. Illustrations of the second gnathopods of adult male <i>P. articulata</i> and immature male <i>P. prudens</i> in Conlan (1983) are very similar (see below). Also, the inner ramus of the third uropod in the voucher specimens is longer than what is illustrated for <i>P. articulata</i>. In samples in which there are no</p>

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mature males, these two species cannot be separated and in this case individuals should be left at the genus level.

*P. articulata*



### Literature

Barnard, J.L. 1962. Benthic marine Amphipoda of southern California: families Aoridae, Photidae, Ischyroceridae, Corophiidae, Podoceridae. *Pacific Naturalist* 3: 1-72. (pp. 48-50)

Barnard, J.L. 1971. Gammaridean Amphipoda from a deep-sea transect off Oregon. *Smithsonian Contributions to Zoology* 61: 1-86. (p. 15)

Conlan, K.E. 1983. The amphipod superfamily Corophioidea in the northeastern Pacific region. 3. Family Isaeidae: systematic and distributional ecology. *National Museums of Canada, National Museum of Natural Sciences, Publications in Natural Sciences*: 1-75 (p. 27)

Conlan, K.E. 1995. Superfamily Corophioidea. In: Blake J.A., Watling L., Scott P. H., Eds. *Taxonomic Atlas of the Benthic Fauna of the Santa Maria Basin and the Western Santa Barbara Channel*. Volume 12. ISBN 0-936649-17-4. Santa Barbara: Santa Barbara Museum of Natural History. Chapter The Crustacea Part 3: The Amphipoda. pp. 177-222. (pp. 179, 182, 203)

SCAMIT: Southern California Association of Marine Invertebrate Taxonomists [Internet]. 2000-2009 [cited 2013 Feb. 2]. Available from: <http://www.scamit.org/newsletters/2005-02.pdf>

### More Information

More information about Puget Sound benthic invertebrates is available at:  
<http://www.ecy.wa.gov/programs/eap/psamp/index.htm>

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