

# Podarkeopsis glabrus (Hartman, 1961)

Nomenclature		
Phylum	Annelida	
Class	Polychaeta	
Order	Phyllodocida	
Family	Hesionidae	
Synonyms	Oxydromus arenicolus glabrus Hartman, 1961 Gyptis arenicola glabra of Hartman 1968 Podarkeopsis glabra (misspelling)	



Distribution		
Type Locality	California: Santa Maria Basin, off Purisima Point, Sta. 42 (1); off Point San Luis, Sta. R-1 (3); off Point Conception, Sta. 77 (1); Bodega Harbor (1); Gulf of the Farallones, ca. 30 m, Jul. 1973- Feb. 1974 (5)	
Geographic Distribution	Central America; California to Alaska (Hilbig 1994)	
Habitat	Shallow subtidal, in mixed mud and silt (Hilbig 1994)	

# Description

From Hilbig 1994, pp. 261-263 (as Podarkeopsis glabra)

Size/ Color: Length to 15 mm, width to 1 mm, segments to 30. Uniformly tan in alcohol.

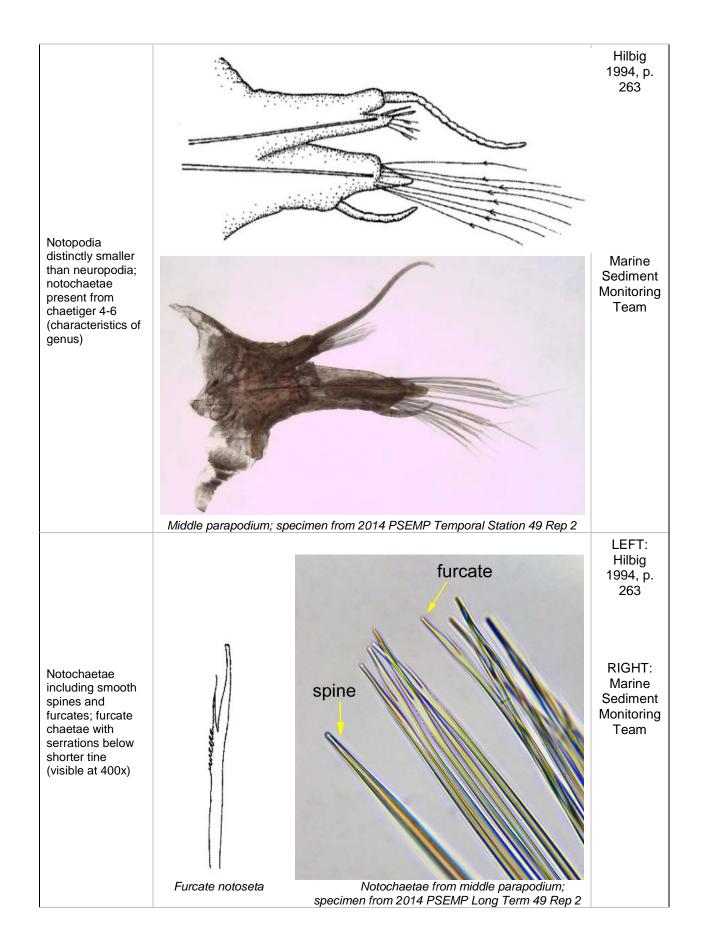
**Body:** Short, wide, depressed except for nearly cylindrical pharyngeal region.

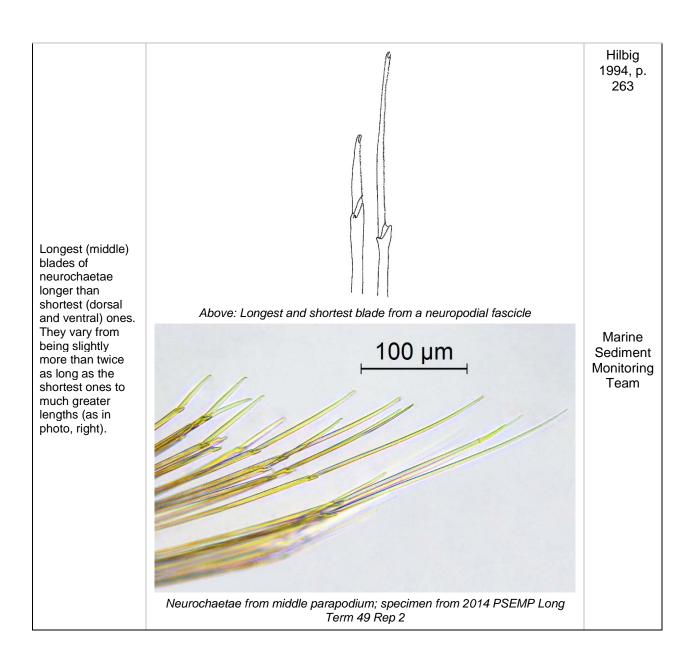
**Prostomium:** Wider than long, with 2 palps and 3 antennae; outer antennae about as long as palps, median antenna only one-third as long, inserted at frontal margin of prostomium. Four subequal eyes present posteriorly, moderately large, arranged in a rectangle. Two large nuchal grooves along postectal margin of prostomium. Proboscis wide, smooth, with 10 distal papillae. 8 pairs of tentacular cirri on 3 distinct segments. Dorsal cirri longer than ventral cirri.

**Parapodia:** Sesquiramous in chaetigers 1 to 4 (rarely 5), biramous after that; dorsal cirri long, slender, indistinctly articulated; ventral cirri much shorter, just exceeding the neuropodial presetal lobe.

**Chaetae:** Notochaetae first present from chaetiger 5; consisting of 2 to 5 acicular spines with weak subdistal serrations (large animals) and 2 to 5 furcate chaetae with unequal tines; shorter tine with basal serrations, longer tine open-ended, longest blades in middle of fascicle; shaft smooth, blade finely serrated, tapering to hook-shaped tip and often with short distal hood. Neurochaetae compound falcigers with long and short blades, the longest in the middle of fascicle and 2 (or more) times longer than the shortest. Smooth shaft and serrated blade, tapering to hooked tip.

Diagnostic (	Characteristics	
Diagnostic Characteristics (From Hilbig 1994, as <i>P. glabra</i> )	Photo, Illustrations	Photo, Illustration Credit
4 moderately large eyes of similar size	palp	Modified from Hilbig 1994, p. 263
Palps biarticulate	Anterior body region (dorsal view); tc – tentacular cirri	
3 antennae, median one attached frontally  Proboscis with 10 terminal papillae	1 mm	Marine Sediment Monitoring Team
8 pairs tentacular cirri on 3 distinct segments	Anterior body region (dorsal view); specimen from 2014 PSEMP Long Term	





Related Species and Characteristic Differences			
Species Name	Diagnostic Characteristics		
Podarkeopsis brevipalpa	Furcate chaetae of <i>G. brevipalpa</i> are smooth, whereas <i>P. glabrus</i> are serrated at the base of the shorter tine (Hilbig 1994; see comments below).		
Podarkeopsis perkinsi	Notochaetae include capillaries; posterior eyes smaller than anterior eyes (Hilbig 1994).  Note: This species is known only from off central California.		
Oxydromus pugettensis	6 pairs of tentacular cirri; proboscis with more numerous terminal papillae; notopodia more reduced (Blake and Ruff 2007)		
Micropodarke dubia	6 pairs of tentacular cirri, notochaetae absent. Ventral "lobes" present, originating slightly posteriorly to the bases of the parapodia (only hesionid in Puget Sound with this character)		

#### Comments

**From Hilbig 1994:** "*P. brevipalpa* has traditionally accommodated hesionids with 8 pairs of tentacular cirri and furcate notochaetae; it was synonymized with *P. glabra* (as *Oxydromus arenicola glabra* Hartman) by Banse and Hobson (1968). However, a closer examination of the notochaetae of specimens from several locations off California revealed that those specimens possess furcate chaetae with serrations under the shorter tine and thus do not belong to *P. brevipalpa* which is characterized by smooth furcate chaetae (Hartman-Schröder in Banse and Hobson, 1968). Although Banse and Hobson noted this conflict, they did not recognize *P. brevipalpa* and *P. glabra* as separate species."

# Literature

- Banse, K. and K. D. Hobson. 1968. Benthic polychaetes from Puget Sound, Washington, with remarks on four other species. *Proceedings of the U.S. National Museum*, Smithsonian Institution Press, Washington, D.C. 125 (3667): 1-53.
- Blake, J.A. and R.E. Ruff. 2007. Polychaeta. Pp. 309-410. *In*: Carlton, J.T. (Ed). *The Light and Smith Manual. Intertidal Invertebrates from Central California to Oregon.* University of California Press, Berkeley. (p. 383-384)
- Hartman, O. 1961. Polychaetous annelids from California. Allan Hancock Pac. Exped. 25: 1-226.
- Hilbig, Brigitte. 1994. Family Hesionidae Sars, 1862. Pp. 243-266. *In*: Blake, J. A., Hilbig, B. and P. H. Scott (Eds). *Taxonomic Atlas of the Benthic Fauna of the Santa Maria Basin and the Western Santa Barbara Channel. Volume 4. The Annelida Part 1. Oligochaeta and Polychaeta: Phyllodocida (Phyllodocidae to Paralacydoniidae).* Santa Barbara Museum of Natural History. Santa Barbara, California.
- Pleijel, Fredrik 1998. Phylogeny and classification of Hesionidae (Polychaeta). *Zoologica Scripta*, 27(2): 89-163, 38 figures, 7 tables.

# More Information

To learn more about our Voucher Sheet project, please visit: http://ecologywa.blogspot.com/2017/ 03/eyes-under-puget-sound-vouchersheet.html

More information on Puget Sound marine monitoring is available on our website, including a full list of published benthic invertebrate voucher sheets.

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