

Notomastus hemipodus Hartman, 1945

Nomenclature		
Phylum	Annelida	
Class	Polychaeta	
Family	Capitellidae	
	Notomastus (Clistomastus) hemipodus Hartman, 1945, 1947 Notomastus americanus Day, 1973	
	<i>Notomastus tenuis</i> (of authors NEP, not Moore 1909)	
Synonyms	<i>Notomastus</i> sp A SCAMIT 2001 (see Rowe 2001)	



Distribution		
Type Locality	Bogue Sound, North Carolina (as <i>N. hemipodus</i>); Beaufort, NC (as <i>N. americanus</i> ; García-Garza et al 2012).	
Geographic Distribution	East and Gulf coasts of North America (Blake and Ruff 2007); west coast of North America from British Columbia to Mexico (García-Garza et al 2012).	
Habitat	Intertidal to shelf depths in fine sand and silt (Blake and Ruff 2007); Depth range $0.50 \text{ m} - 426.72 \text{ m}$ (García-Garza et al 2012).	

Description

From García-Garza et al 2012 (unless otherwise noted)

Size/Color: One nearly complete paratype – 65 mm long, 2 mm wide for 148 segments. Light tan to brown in alcohol.

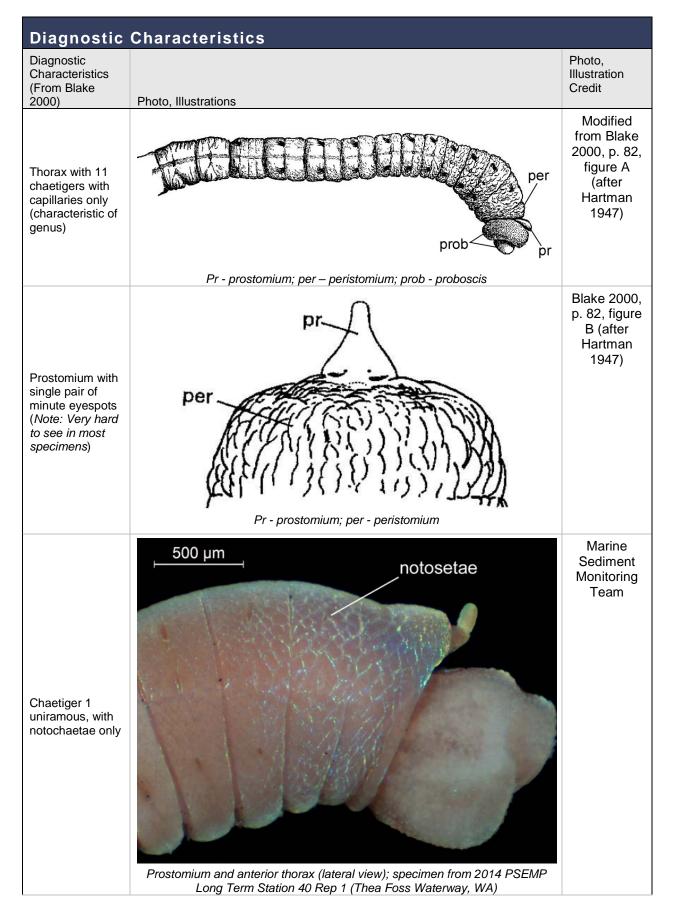
Body: 12 thoracic segments, 11 with capillaries only. 1st chaetiger uniramous. Chaetigers biannulate; transition between the 2 body regions marked by chaetal change and a constriction. Lateral organs present between noto- and neuropodia. Nephridia on intersegmental areas of last thoracic chaetigers (visible when grooves pushed apart); absent in abdomen.

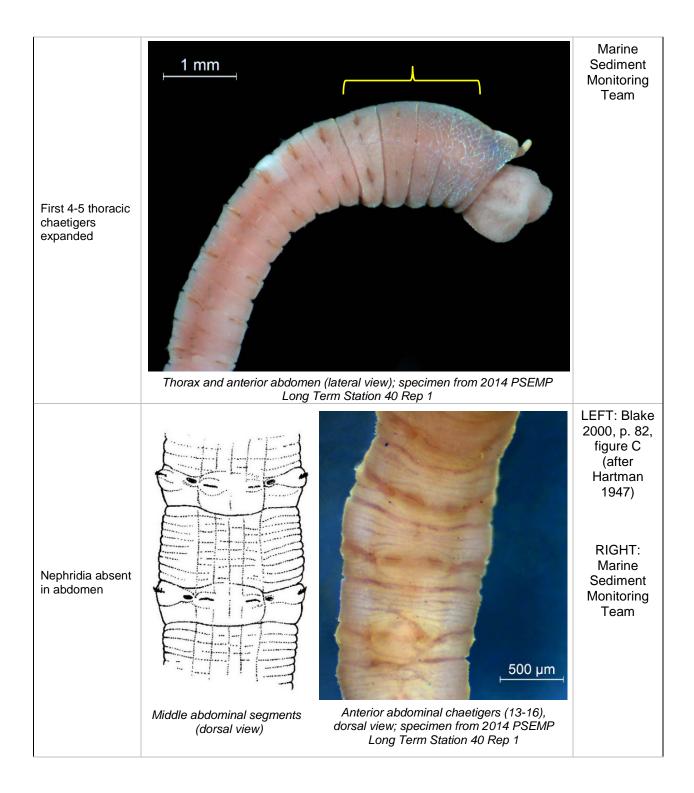
Prostomium: Triangular, with minute eyespots. Pair of nuchal slits present (near posterior margin, under peristomial fold). Achaetous peristomium about 1/3 length of chaetiger 1 (Blake 2000).

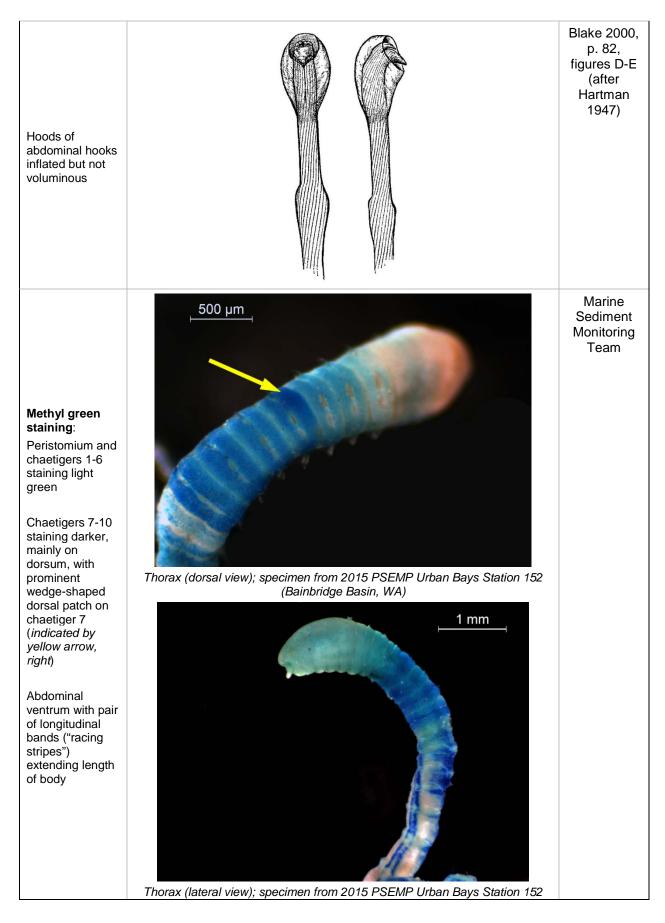
Parapodia: Notopodia lateral in 1st thoracic chaetiger, moved dorsally in following chaetigers. Abdomen with notopodial lobes close together and neuropodial lobes lateral, expanded up to dorsal region.

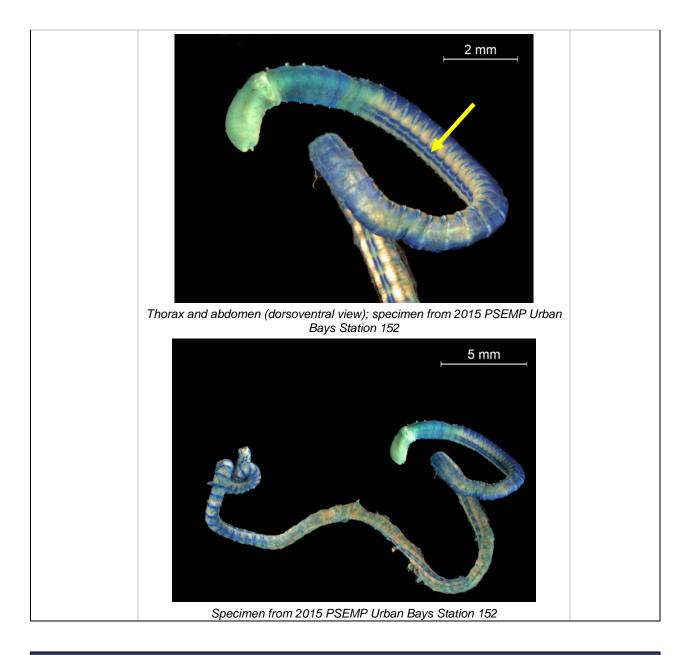
Chaetae: Bilimbate capillaries in thorax; abdomen with hooks with inflated hood and curved main fang surmounted by row of 5-6 apical teeth; shaft long, straight, with thick node near middle (Blake 2000).

Pygidium: Simple, no appendages (Blake 2000).









Related Species and Characteristic Differences		
Species Name	Diagnostic Characteristics	
Notomastus tenuis	Most similar species to <i>N. hemipodus</i> ; with 2 groups of numerous eyespots instead of a single pair; thoracic chaetigers do not change abruptly in size; methyl green staining body uniformly, without striking pattern (Blake 2000).	
Notomastus latericeus	Chaetiger 1 biramous. MG staining does not produce ventral "racing stripes". Abdominal nephridia large, staining dark with MG. With long, single, filamentous branchiae in abdominal segments (Blake 2000).	
Notomastus lineatus	Chaetiger 1 biramous (Blake 2000). MG staining does not produce ventral "racing stripes."	
Decamastus gracilis	Chaetiger 1 biramous; 10 thoracic setigers with capillaries; MG staining does not produce ventral "racing stripes."	

Comments

Notomastus hemipodus is the most commonly collected species of this genus during Ecology's Puget Sound sediment monitoring. It is most easily confused with *N. tenuis*, which is also found (less frequently) in Puget Sound, but may be easily distinguished through the use of methyl green staining.

Literature

- Blake, J.A. 2000. Family Capitellidae Grube, 1862. Pp. 47-96. IN: Blake, James A.; Hilbig, Brigitte; and Scott, Paul Valentich (eds). Taxonomic Atlas of the Benthic Fauna of the Santa Maria Basin and Western Santa Barbara Channel. 7 - The Annelida Part 4. Polychaeta: Flabelligeridae to Sternaspidae. Santa Barbara Museum of Natural History, Santa Barbara. (p. 80-82)
- 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. 389-390)
- García-Garza, M.E., Harris, L.H., and J.A. De León-González. 2012. Redescription of *Notomastus hemipodus* Hartman, 1945 and *N. tenuis* Moore, 1909 (Polychaeta: Capitellidae). *Proceedings* of the Biological Society of Washington 125(1): 1-11.
- Hartman, O. 1947. Polychaetous annelids Part IV. Capitellidae. *Allan Hancock Pacific Expeditions* 10(4): 391-481, plates 43-58.

Hartman, O. 1969. Atlas of the sedentariate polychaetous annelids from California. Allan Hancock Foundation, University of Southern California, Los Angeles. 812 pp. [p. 393, as *Notomastus (Clistomastus) hemipodus*]

Rowe, R. 2001. *Notomastus* sp. A. City of San Diego Provisional Species Voucher Sheet. Southern California Association of Marine Invertebrate Taxonomists (SCAMIT). Available online at <u>https://www.scamit.org/tools/toolbox-</u> <u>new/ANNELIDA/Class%20Polychaeta/Subclass%20Scolecida/Family%20Capitellidae/Notomas</u> tus%20hemipodus/Notomastus%20sp%20A.pdf

More Information

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

More information on Puget Sound marine monitoring is available on our <u>website</u>, including a full list of published <u>benthic invertebrate</u> <u>voucher sheets</u>. Prepared by Dany Burgess (Ecology's Marine Sediment Monitoring Team); reviewed by Tara Macdonald and Hiroki Tomoe (Biologica). This document is available on the Department of Ecology's website at <u>https://fortress.wa.gov/ecy/publications/</u> SummaryPages/1803387.html

If you need this document in a format for the visually impaired, call (360) 407-6764. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call (877) 833-6341.