

Notomastus latericeus Sars, 1851

Nomenclature	
Phylum	Annelida
Class	Polychaeta
Family	Capitellidae
Synonyms	none

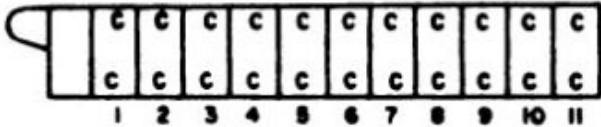
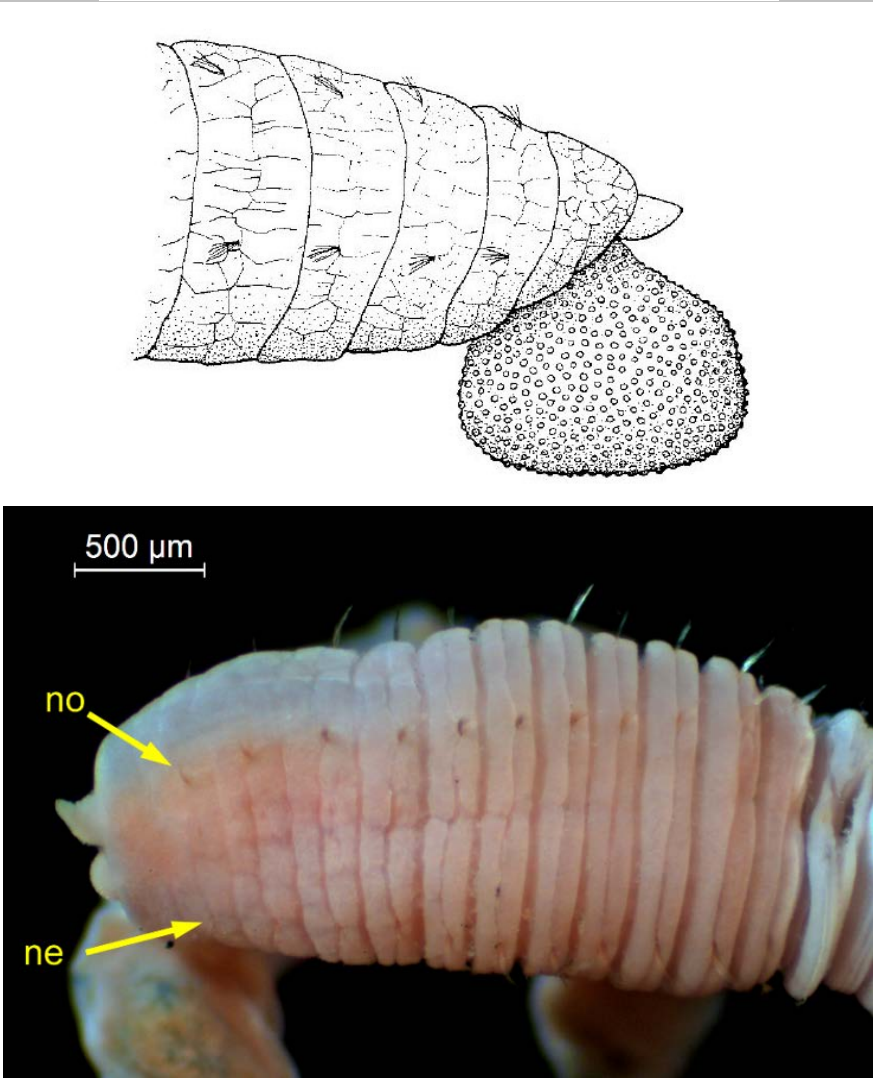



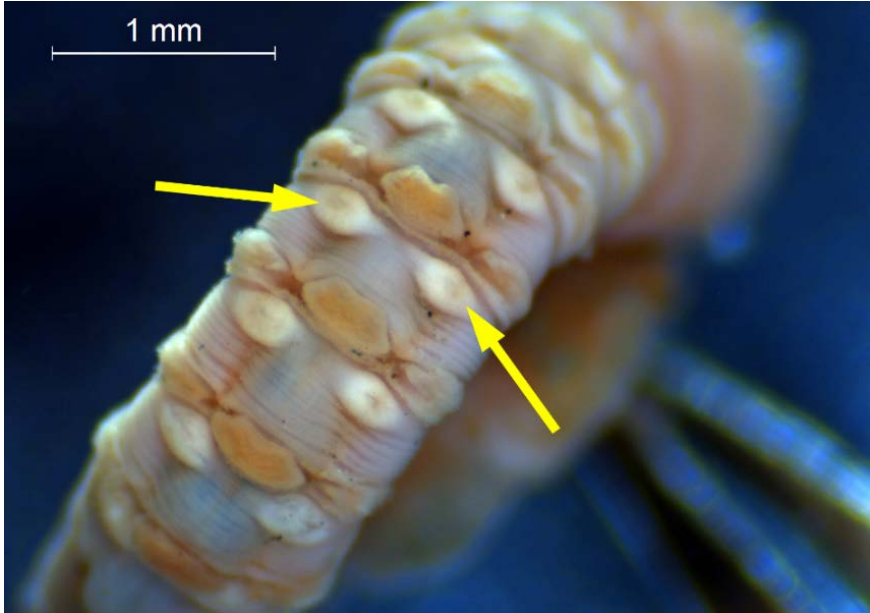
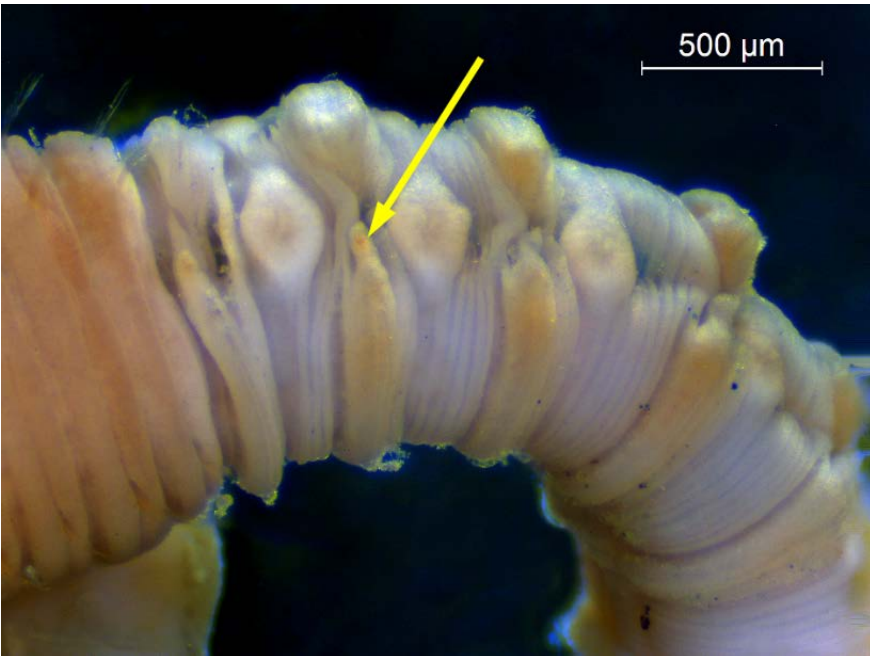
Notomastus latericeus

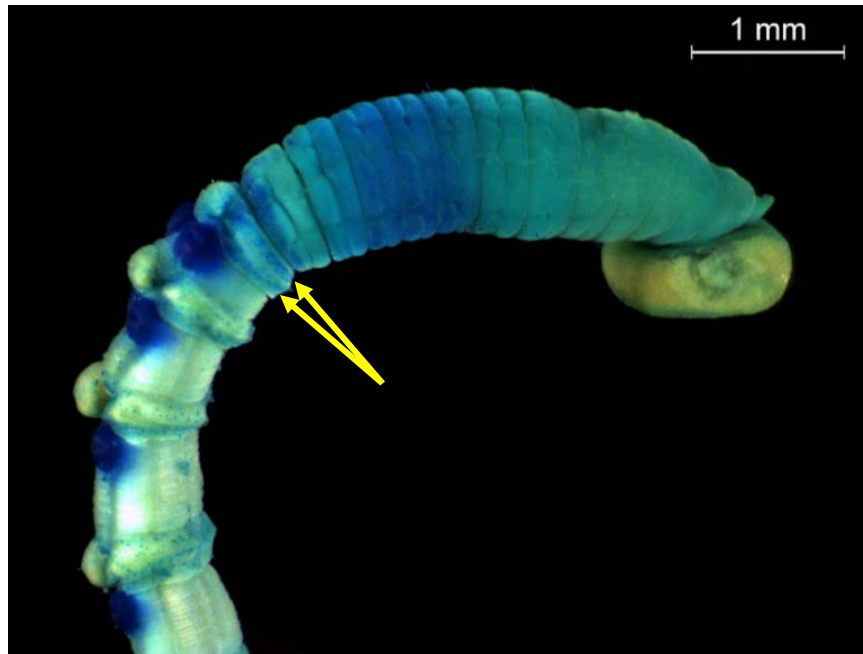
Distribution	
Type Locality	Florø; Komagfjord, Norway
Geographic Distribution	Worldwide distribution – northern Europe, the Gulf of Mexico, southern California (Blake and Ruff 2007) and Puget Sound, WA
Habitat	In the Gulf of Mexico: Intertidal to 4360 m in a wide variety of sediment types (fine to silty sand, coarse to medium sand; Ewing 1984). In Puget Sound: to 270 m in fine to silty sand, occasionally in coarse sand/gravel or silt/clay.

Description
From Ewing 1984 (unless otherwise noted)
Size: Length to 23+ mm (previously reported to 300 mm); 2.2 mm wide, for 150 or more segments (Hartmann-Schröder, 1971).
Body: 12 thoracic segments, 11 with capillaries only (characteristic of genus). 1 st chaetiger biramous. Thorax with crowded chaetigers; abrupt change between thorax and abdomen. Thoracic segments biannulate. Conspicuously large nephridia present from 1 st abdominal segment, absent in thoracic segments.
Prostomium: Broadly conical, eyes present.
Branchiae: Rudimentary; small dorsolateral swellings of notopodia and large triangular extensions of neuropodia.
Parapodia: Widely separated in thorax. Ovoid lateral organ between noto- and neuropodia of most abdominal segments; 7 or 8 pairs of inconspicuous nephridial apertures from 2 nd abdominal segment.
Chaetae: Thorax with capillaries; abdomen with hooded hooks. Hooks with hood greatly enlarged; multidentate, with main fang surmounted by up to 18 minute denticles arranged in 3 or more rows.
Pygidium: Simple.

Diagnostic Characteristics

Diagnostic Characteristics	Photo, Illustrations	Photo, Illustration Credit
11 thoracic chaetigers with capillaries (characteristic of genus)		Ewing 1984, p. 14-25, figure B
First chaetiger biramous	 <p style="text-align: center;"><i>Thorax (lateral view); arrows indicate notochaetae (no) and neurochaetae (ne) on chaetiger 1; specimen from 2014 PSEMP Long Term Station 44 Rep 1 (Commencement Bay, WA)</i></p>	Hartmann-Schröder, 1971, p. 397, figure A Marine Sediment Monitoring Team

<p>Hood of abdominal hooks enlarged, voluminous</p>		<p>Hartmann-Schröder, 1971, p. 397, figure C</p>
<p>Conspicuously large paired mid-dorsal nephridia on abdominal segments</p>	 <p><i>Abdomen (dorsal view); specimen from 2014 PSEMP Long-term Station 44 Rep 1</i></p>	<p>Marine Sediment Monitoring Team</p>
<p>Branchiae present on abdominal segments, as small lobes at top of neuropodia</p>	 <p><i>Abdomen (lateral view); specimen from 2014 PSEMP Long-term Station 44 Rep 1</i></p>	<p>Marine Sediment Monitoring Team</p>

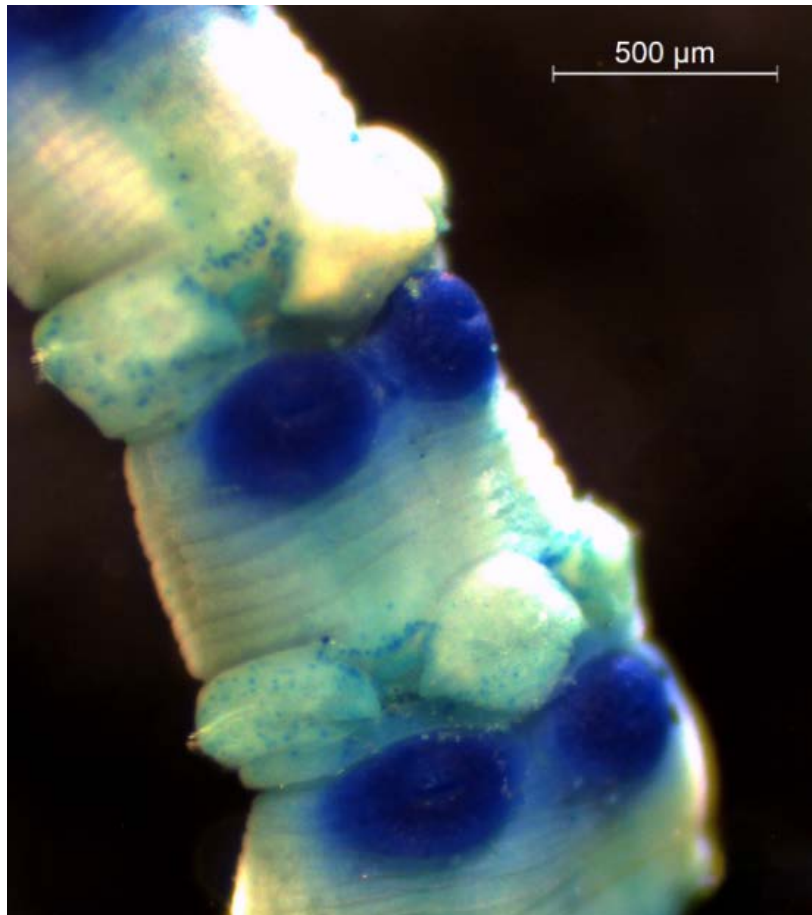


Thorax and anterior abdomen (lateral view); specimen from 2015 PSEMP Urban Bays Station 158 (Bainbridge Basin, WA)

Methyl green staining:
Posterior thoracic segments (7-9) staining slightly darker than rest of thorax

Abdomen with double transverse stripes encircling segments (*faint in the specimen pictured right, indicated by yellow arrows*)

Nephridia staining an intense dark blue; very distinct.



Abdominal chaetigers (dorsal view); specimen from 2015 PSEMP Urban Bays Station 158

Related Species and Characteristic Differences

Species Name	Diagnostic Characteristics
<i>Notomastus lineatus</i>	No nephridia in abdominal segments; hoods of hooded hooks inflated but not voluminous or greatly enlarged.
<i>Notomastus hemipodus</i>	First chaetiger uniramous; branchiae absent; no nephridia in abdominal segments; methyl green stain producing distinct longitudinal stripes on mid-ventrum of abdomen.
<i>Notomastus tenuis</i>	First chaetiger uniramous; branchiae absent; no nephridia in abdominal segments; prostomium with numerous eyespots; no distinct methyl green staining pattern.

Comments

Notomastus latericeus may be easily confused with *Notomastus lineatus* which has remarkably similar abdominal neuropodial vesicular structures; however, the latter has nephridial apertures in the thorax (Ewing 1984).

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, CA. (p. 80)
- 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)
- Ewing, R. Michael. 1984. Chapter 14. Family Capitellidae Grube, 1862. Pp. 14-1 to 14-47. *In: Taxonomic guide to the polychaetes of the northern Gulf of Mexico. Vol. II.* Uebelacker, J.M and P.G. Johnson (Eds.) Prepared under MMS contract 14-12-001-29091 for Minerals Management Service, U.S. Dept. of the Interior.
- Rowe, M. 1995. *Notomastus latericeus*. City of San Diego Voucher Sheet. *In: Southern California Association of Marine Invertebrate Taxonomists (SCAMIT) Taxonomic Toolbox.* Accessed online at <http://www.scamit.org/tools/toolbox-new/ANNELIDA/Class%20Polychaeta/Subclass%20Scolecida/Family%20Capitellidae/Notomastus%20latericeus/Notomastus%20latericeus.pdf> on 2016-5-23.
- Sars, M. 1851. Beretning om en i Sommeren 1849 foretagen zoologisk Reise i Lofoten og Finmarken [1850 date used in Hydrozoa, 1851 in Polychaeta & others]. *Nyt Magazin for Naturvidenskaberne.* 6: 121-211.

More Information

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