

Spiophanes berkeleyorum Pettibone, 1962


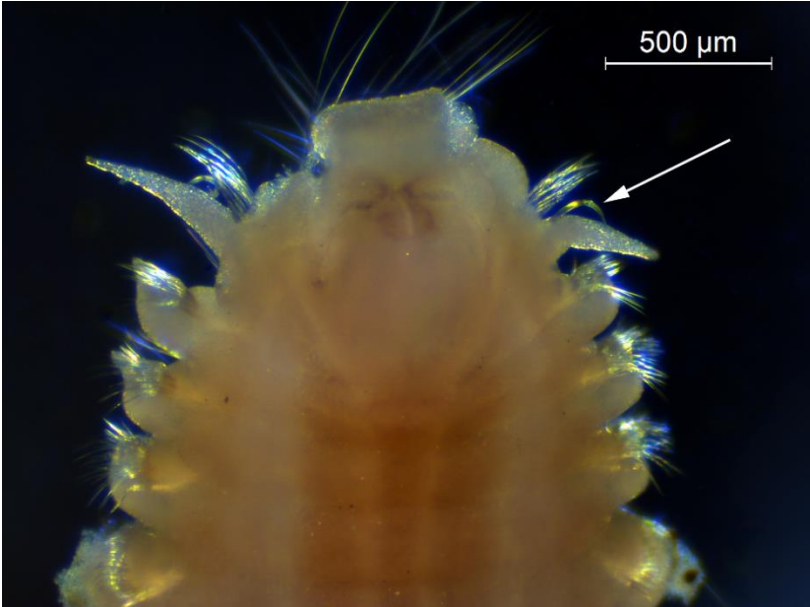
Nomenclature	
Phylum	Annelida
Class	Polychaeta
Order	Spionida
Family	Spionidae
Common Synonyms (S) Previous Names (PN)	

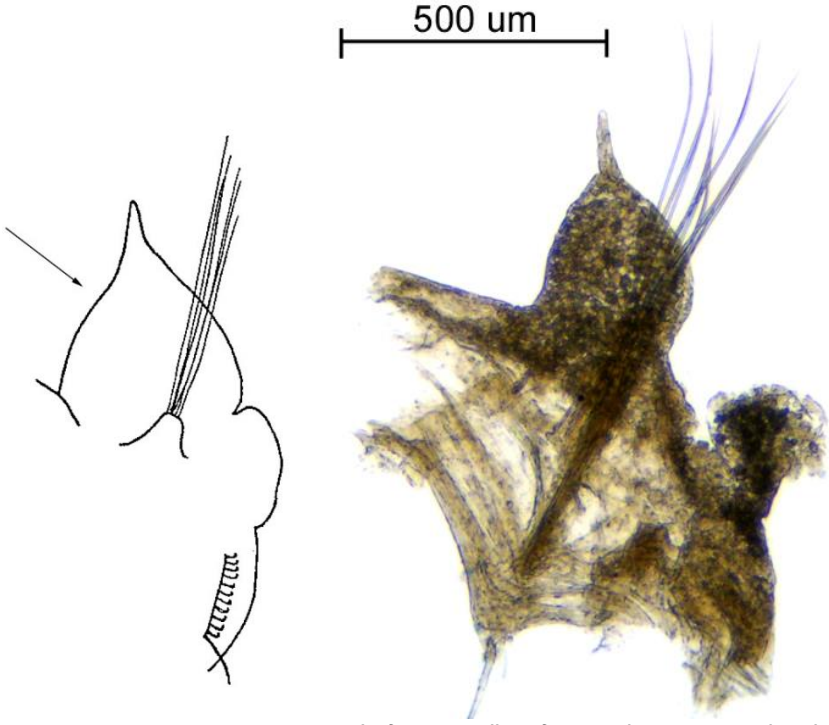
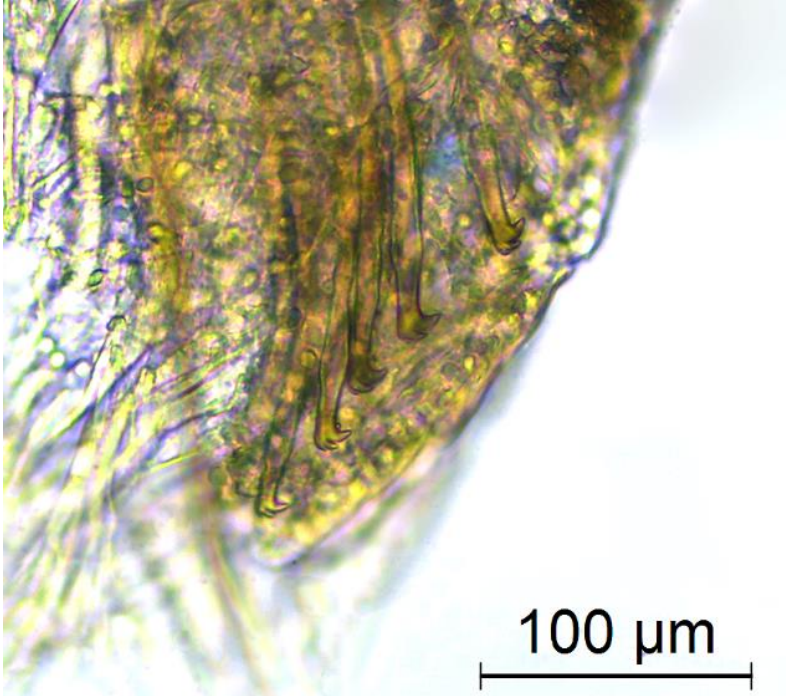


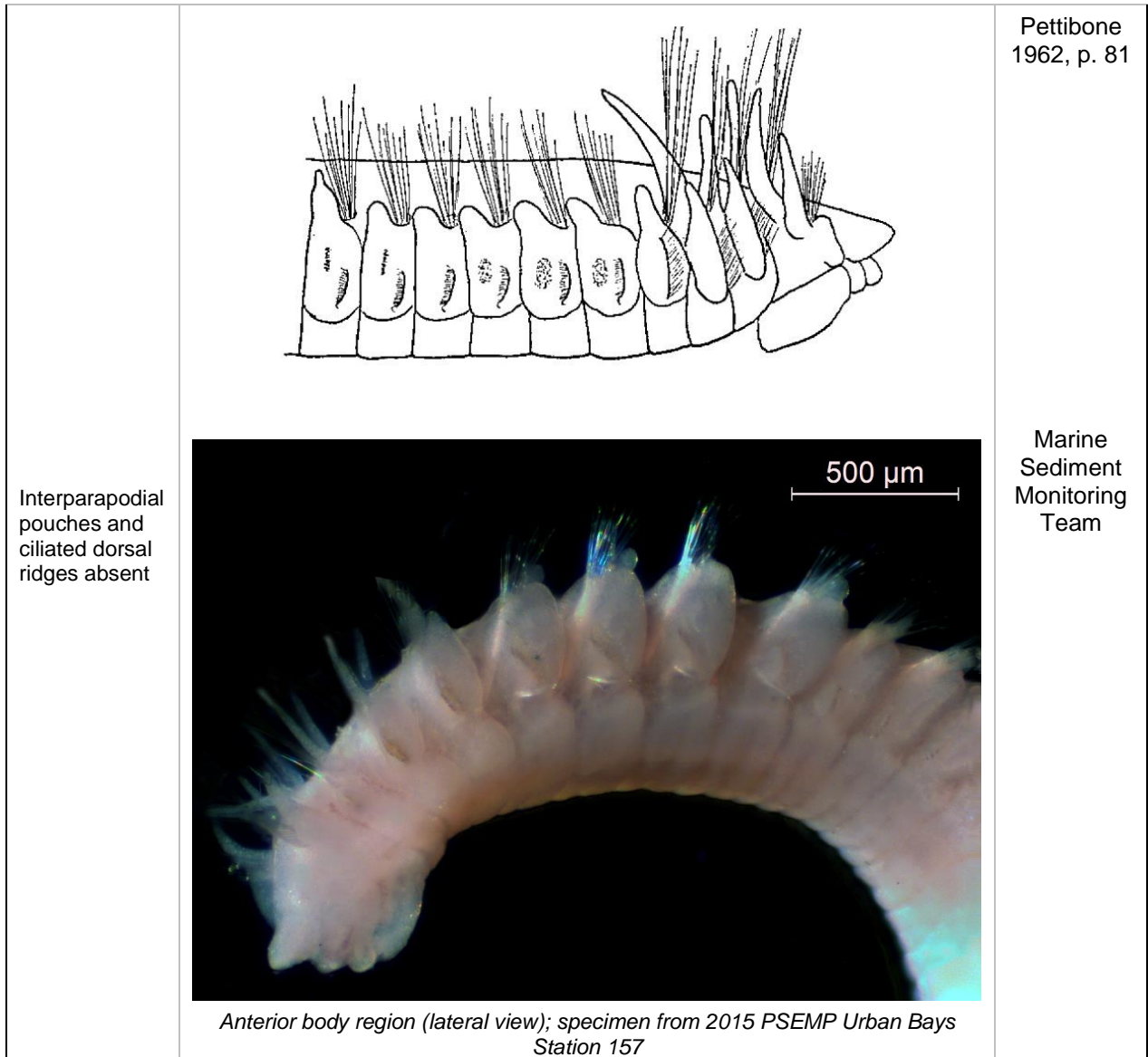
Distribution	
Type Locality	Departure Bay, east coast of Vancouver Island, British Columbia
Geographic Distribution	Eastern Pacific, Puget Sound to southern California; Japan (Blake 1996)
Habitat	Low intertidal to 465 m (Blake 1996)

Description
From Blake 1996
Size: Length up to 35 mm, width up to 2 mm, segments up to 100.
Body: Flattened dorsoventrally anteriorly, tapered gradually posteriorly.
Prostomium: Bell-shaped, widest anteriorly, anterior angles rounded, extending posteriorly on 1 st setiger, with 4 small deep-set inconspicuous eyes. Prominent median occipital antenna at the level of the notopodial lobes of the 1 st setiger. Peristomial segment achaetous, enlarged, lateral and ventral to prostomium, with a raised fold lateral to tentacular palps. Tentacular palps with scalloped borders along the ciliated grooves. Dorsal sensory grooves parallel, extend to about setiger 14. Proboscis saclike.
Branchiae: None
Parapodia/Setae: Anterior 4 setigers with well-developed digitiform postsetal lamellae in both rami, and long slender capillary notosetae; neuropodia of first setiger include 1-2 heavy curved crook-like setae. Curved inferior sabre setae present from setiger 4; quadridentate neuropodial hooks begin on setiger 15. Parapodia in mid-body region swollen, glandularized, with capilliform bacillary setae. Posterior region with prominent transverse dorsal folds. Interparapodial pouches absent.
Pygidium: Anal end disc-like with 6-12 cirri.

Diagnostic Characteristics

Diagnostic Characteristics (From Blake 1996)	Photo, Illustrations	Photo, Illustration Credit
<p>Occipital antenna present</p> <p>Prostomium bell-shaped (without frontal horns)</p> <p>Branchiae absent</p>	 <p style="text-align: center; font-size: small;"><i>Anterior body region (dorsal view); arrow indicates occipital antenna; specimen from 2014 PSEMP Long-term Station 44 Rep 2</i></p>	<p>Marine Sediment Monitoring Team</p>
<p>Setiger 1 with 1-2 large curved neuropodial hooks</p>	 <p style="text-align: center; font-size: small;"><i>Anterior body region (ventral view); specimen from 2014 PSEMP Long-term Station 4 Rep 2</i></p>	<p>Marine Sediment Monitoring Team</p>

<p>Notopodial lobes of posterior region (begin on setiger 15) large, flat, whitish</p>	 <p>500 µm</p> <p><i>Left parapodium from setiger 20, anterior view; specimen from 2015 PSEMP Urban Bays Station 157</i></p>	<p>LEFT: Pettibone, 1962, p. 81</p> <p>RIGHT: Marine Sediment Monitoring Team</p>
<p>Neuropodial hooks 6-11 per row</p>	 <p>100 µm</p> <p><i>Close-up of neuropodial hooks from setiger 20; specimen from 2015 PSEMP Urban Bays Station 157</i></p>	<p>Marine Sediment Monitoring Team</p>



Related Species and Characteristic Differences	
Species Name	Diagnostic Characteristics
<i>Spiophanes kroeyeri</i>	Prostomial eyespots lacking; median body with prominent interparapodial pouches.
<i>Spiophanes norrisi</i>	Prostomium with elongate lateral projections (“horns”); occipital cirrus absent.

Comments

S. berkeleyorum builds delicate silt tubes (Photo credit: Marine Sediment Monitoring Team).



Literature

- Blake, J.A. 1996. Family Spionidae Grube, 1850. Pp. 81-223. Including a review of the genera and species from California and a revision of the genus *Polydora* Bosc, 1802. In: Blake, J.A., Hilbig, B., and P.H. Scott. 1996. *Taxonomic Atlas of the Benthic Fauna of the Santa Maria Basin and the Western Santa Barbara Channel. Volume 6. The Annelida Part 3. Polychaeta: Orbiniidae to Cossuridae*. Santa Barbara Museum of Natural History. Santa Barbara, California.
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- WoRMS. (2015). *Spiophanes berkeleyorum*. In: Read, G.; Fauchald, K. (Ed.) (2015) World Polychaeta database. Accessed through: World Register of Marine Species at <http://marinespecies.org/aphia.php?p=taxdetails&id=558839> on 2015-11-24

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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