

Sigambra nr. bassi (Hartman, 1945)

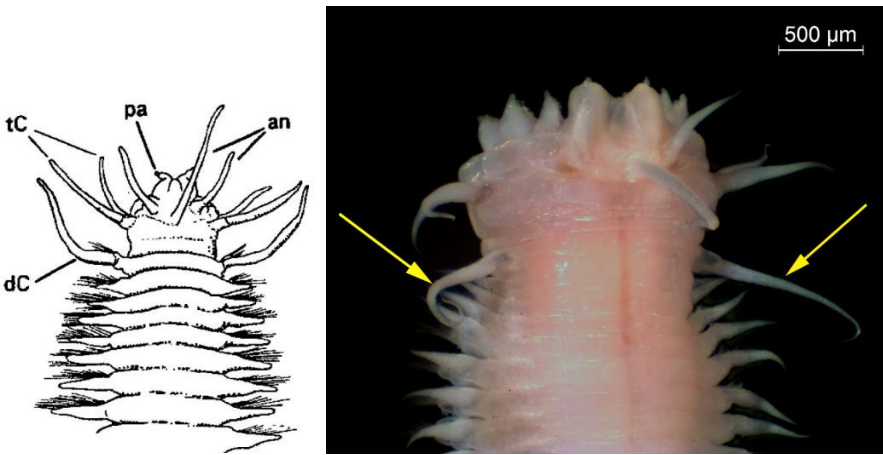
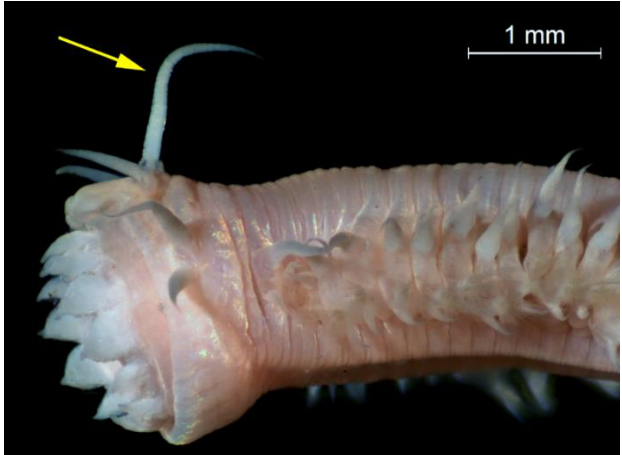

Nomenclature	
Phylum	Annelida
Class	Polychaeta
Order	Phyllodocida
Family	Pilargidae
Common Synonyms (S) Previous Names (PN) Source: WoRMS (2015)	<i>Ancistrosyllis bassi</i> Hartman, 1945 – superseded original combination

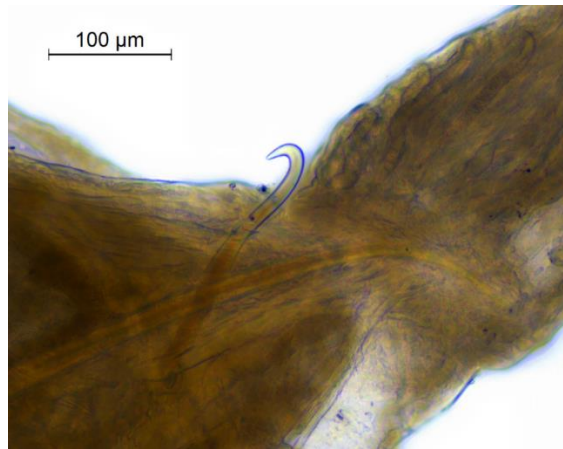


Distribution	
Type Locality	Chadwick Beach, Lemon Bay, FL
Geographic Distribution	Puget Sound, WA to central and southern California (Blake and Ruff 2007)
Habitat	Intertidal to 113 m (Blake and Ruff 2007); sandy bottoms (Hartman 1968)

Description
Modified from Blake's 1994 description of <i>S. bassi</i> (p. 288)
Size: A moderate sized species, up to 40 mm long, 2 mm wide, for about 145 segments.
Body: Wide anteriorly, tapering posteriorly, dorsoventrally flattened, with parapodia deeply cut; integument smooth, papillae lacking.
Prostomium: With biarticulate palps with large palpophores bearing small digitiform palpostyles. Antennae slender; median antennae positioned posterior to, and up to 2x as long as lateral antennae. Proboscis with cirlet of 13 conical papillae; dorsalmost papilla absent. Tentacular segment larger than following setigers, bearing 2 pairs of cirriform tentacular cirri, about same length as lateral antennae.
Branchiae: None
Parapodia/Setae: Dorsal cirri of setiger 1 long, similar to median antenna. Parapodia subbiramous. Notopodia low, bearing heavy curved hooks from setiger 2-25 (usually about setiger 3-5 in Puget Sound material); hooks accompanied by a straight, pointed acicular spine in the median and posterior region, and in the posterior setigers, a single thin capillary seta. Dorsal cirri long, extending far beyond setal lobes. Neuropodia conical, with neuroaciculae and numerous slender capillary neurosetae, shorter ones with fine serrations; ventral cirri extending slightly beyond setal lobes, lacking on setiger 2.
Pygidium: 1 pair of long anal cirri.

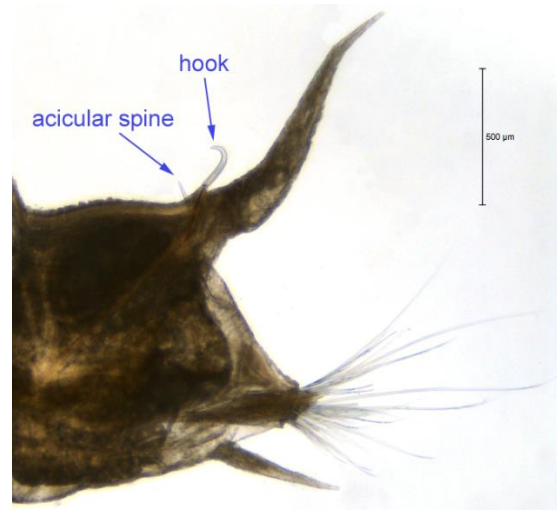
Diagnostic Characteristics

Diagnostic Characteristics	Photo, Illustrations	Photo, Illustration Credit
<p>Dorsal cirri long and slender; those of setiger 1 unusually long (characteristic of genus)</p>	 <p style="text-align: center; font-size: small;">Anterior body region (dorsal view); specimen from 2014 PSEMP Long-term Station 49 Rep 2</p>	<p>LEFT: Blake, 1996, p. 288</p> <p>RIGHT: Marine Sediment Monitoring Team</p>
<p>Median antenna approximately twice as long as lateral antennae (Blake 1994)</p>	 <p style="text-align: center; font-size: small;">Anterior body region (lateral view); specimen from 2014 PSEMP Long-term Station 49 Rep 2</p>	<p>Marine Sediment Monitoring Team</p>
<p>Proboscis with 13 papillae</p>	 <p style="text-align: center; font-size: small;">Anterior body region (ventral view); specimen from 2014 PSEMP Long-term Station 49 Rep 2</p>	<p>Marine Sediment Monitoring Team</p>



Close-up of emergent hooked notoseta from setiger 15; specimen from 2014 PSEMP Long-term Station 49 Rep 2

Stout
emergent
notosetae
hooked;
present from
setiger 2-25



Posterior setiger; specimen from 2014 PSEMP Long-term Station 49 Rep 2

Middle and
posterior
setigers with
hook and a
straight
acicular spine



Close-up of emergent hooked notoseta and acicular spine from posterior setiger; specimen from 2014 PSEMP Long-term Station 49 Rep 2

Related Species and Characteristic Differences

Species Name	Diagnostic Characteristics
<i>Sigambra tentaculata</i>	Pharinx with a circlet of 14 subequal papillae; median and posterior setigers lacking a straight emergent acicular spine (Ruff, personal communication).

Comments

The position of the 1st hook-bearing setiger appears to be of limited taxonomic value. Licher & Westheide (1997) found these hooks beginning as late as setiger 25 in various populations of *Sigambra bassi*, and they stated that “the general variability of this character has long been known.”

Literature

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- Licher, F. and W. Westheide. 1997. Review of the genus *Sigambra* (Polychaeta: Hesionidae); redescription of *S. bassi* (Hartman, 1947), and descriptions of two new species from Thailand and China. *Steenstrupia* 23: 1-20.
- Pettibone, M.H. 1966. Revision of the Pilargidae (Annelida: Polychaeta), including descriptions of new species, and redescription of the pelagic *Podarmus ploa* Chamberlin (Polynoidae). *Proceedings of the United States National Museum* 118: 155-208.
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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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