



## City and County of San Francisco Voucher Sheet

Voucher #: P700

Taxa: Polychaeta: Spionidae

Original Prep. Date: 31 Jul 2008

Prepared By: Dot Norris

Species Code: SPI\_DUPLEX

Species: *Spiophanes duplex*

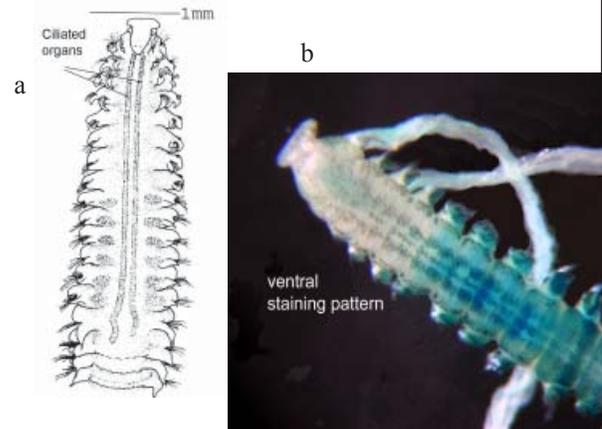
Authority: (Chamberlin, 1919)

Common Synonyms: *Spiophanes missionensis*  
Hartman, 1941

### Characters:

- Triangular to bell-shaped prostomium with short projections and without an occipital antenna (a)
- Methyl green stains in speckled patches on the anterior ventral setigers (b).
- Setal spreaders “2+3 type” (2 anterior lobes and 3 posterior) which are well developed in setigers 5-7 (c).
- Dorsal ciliated organs are wide, parallel ciliated bands extending to setigers 13-14, then diverging and converging on setigers 15-17 (see comments)(a).
- Neuropodial hooks are hoodless and begin on setiger 15.

### Illustrations:

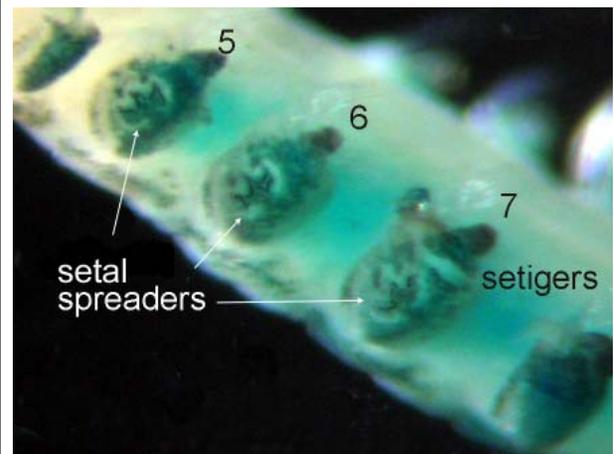


### Additional Information:

(Meisner 2005)

Distribution: N. Pacific (California to Costa Rica), S. Pacific (Chile), N. Atlantic (Gulf of Mexico and Caribbean) and S. Atlantic (S. Brazil to N. Argentina). Not selective of sediment types.

Common offshore Southern California species. Appears occasionally in SWOO and San Francisco Bay samples.



c

a adapted from Meisner 2005

b, and c photographs by D. Norris of specimen in vial 01

### Similar Species:

*Spiophanes berkeleyorum* Pettibone 1962- cirriform occipital antenna present and ventral glandular band on setiger 8 which stains dark with methyl green. Setal spreaders are 1+2 type (unique to this species), dorsal nuchal organs narrow and not parallel.

*Spiophanes wigleyi* Pettibone 1962 - dorsal ciliated organs forming loops that extend only to setiger 4, setal spreaders indistinct, head rounded, no distinctive ventral staining pattern with methyl green (not reported in SWOO samples yet).

***Spiophanes duplex*** (continued)

**Comments:**

Nuchal organs illustrated in Light 1978 are equivalent structures to the dorsal ciliated bands described by Meisner 2005. Meisner and Hutchings equated the terms in their 2003 description of the genera. The specimen in vial 1 of the voucher collection has dorsal ciliated bands extending through setiger 21. These structures are easier to see when the specimen is stained with methyl green or alcian blue.

**References:**

- Light W. J., 1978. Spionidae (Annelida: Polychaeta) from San Francisco Bay, California: a revised list with nomenclatural changes, new record, and comments on related species from the northeastern Pacific Ocean. *Proceedings of the Biological Society of Washington* 90(1):66-88.
- Meisner K., 2005. Revision of the genus *Spiophanes* (Polychaeta, Spionidae); with new synonymies, new records and descriptions of new species. *Mitt. Mus. Nat.Kd. Berl., Zoo. Reihe* 81(1):3-66.
- Meisner K., Hutchings P. A., 2003. *Spiophanes* species (Polychaeta: Spionidae) from eastern Australia - with descriptions of new species, new records and an emended generic diagnosis. *Records of the Australian Museum* 55:117-40.

**Voucher Specimens**

Vial Number	Sample Number	Station	Sample Date	Number of Specimens	Comments
1	0509206097	SWOO_61	21 Sep 2005	1	DJN, large specimen, setal spreaders visible
2	BSSWE095	SWOO_06	12 Nov 1987	1	AMN, confirmed by L. Lovell
3	RMPA004	BC10/rep 1	14 Feb 1994	10	KLC, 1 mm sieve size

Note: other specimens in collection were too juvenile or in poor condition to confirm identification - DJN.

**Revision History:**

DATE	TAXONOMIST	COMMENTS
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