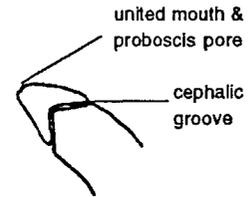
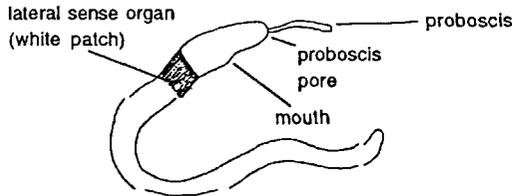
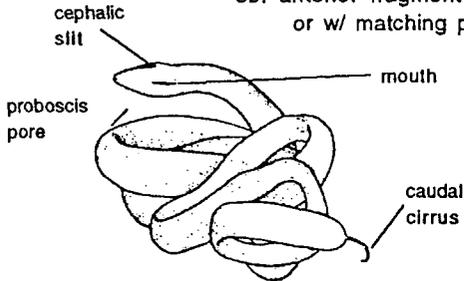


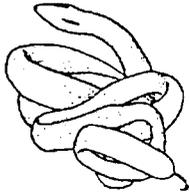
- 1a. mouth & proboscis pore separate → 2
- 1b. mouth & proboscis pore united → GO TO PAGE 3
- 1c. mouth & proboscis pore absent (not apparent) → GO TO PAGE 5
- 2a. cephalic slit absent → GO TO PAGE 2
- 2b. cephalic slit present → 3
- 3a. anterior fragment w/o distinctive color pattern AND w/o matching posterior end → **Lineidae**
- 3b. anterior fragment w/ distinctive color pattern or w/ matching posterior end → SEE BELOW



caudal cirrus present, lateral margins ribbon-like or rounded

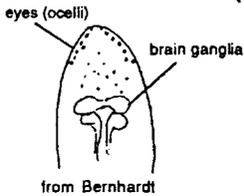
cephalic slit deep; lateral margins ribbon-like cephalic slit shallow; lateral margins rounded

→ cephalic slit deep; body cream colored; lateral margins flattened, ribbon-like (most pronounced posteriorly). ***Cerebratulus californiensis**** (X-80)

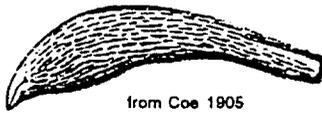


from Smith & Carlton, 1975

→ cephalic slit deep; body w/ longitudinal fine lines of olive-brown color; eyes present. ***Cerebratulus lineolatus*** (X-77)

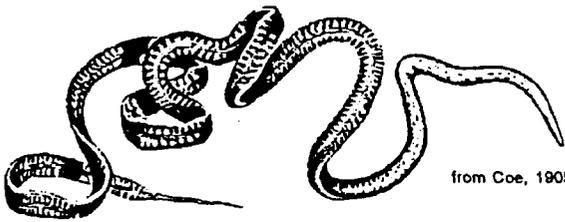


from Bernhardt



from Coe 1905

cephalic slit shallow, narrow; body rose-olive colored; lateral margins not ribbon-like, but may be somewhat flattened. ***Micrura ? alaskensis*** (X-94)

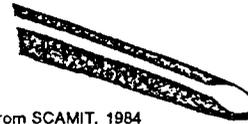


from Coe, 1905

None of the above. Record as **Lineidae**. Give to Dean or Megan for FID.

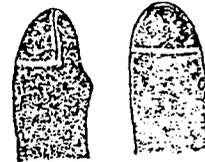
caudal cirrus absent, lateral margins rounded

→ body olive color w/ white mid-dorsal stripe that extends on to the head (olive coloration may be very faint); head (and cephalic slit) may be elongate and tapered (includes our Lineidae sp. SD 1). ***Lineus bilineatus**** (X-32)



from SCAMIT, 1984

→ body light beige-tan w/ narrow white transverse band connecting posterior edges of cephalic slit; body generally plump and round. ***Lineus cf. torquatus*** (X-108)

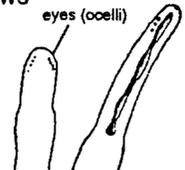


redrawn from MacEwen, 1980

→ body reddish-brown; tip of head and cephalic groove light color; 4-8 small eyes on each side of head forming 2 distinct rows ***Lineus ruber*** (X-75)



from MacEwen, 1980



from Hyman, 1951

→ small specimen w/o coloration. Record as **Lineidae**

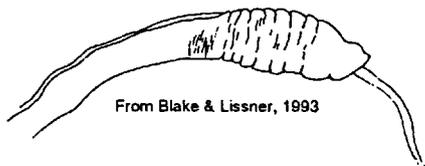
None of the above. Specimen entire or nearly so. Record as **Lineidae** Give to Dean or Megan for FID

* = species most commonly encountered at 200 ft and deeper recovery and A.O. samles

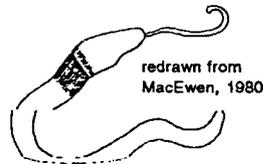
body w/o distinct color pattern (though a thin white band may be present anteriorly)

body with distinct color pattern anteriorly

body thick, cream colored often coiled and "lumpy" posteriorly; head not elongated and pointed (though it may be flattened); proboscis pore and mouth close together; proboscis pore subterminal; w/o white band or lateral sense organ
***Carinoma mutabilis** (X-82)**

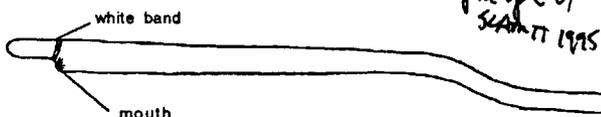


body generally large, rounded; head sometimes flattened and spatulate; body w/ thin white band anteriorly, followed by broad brown or tan band (may be faint); lateral sense organ apparent as lateral white ring w/in brown band (one on each side). ***Tubulanus polymorphus** (X-49)**



body light colored, thin, elongate, and thread-like; head elongated and rounded; proboscis pore moderately separated from mouth; w/ white band present anteriorly, just anterior to mouth.

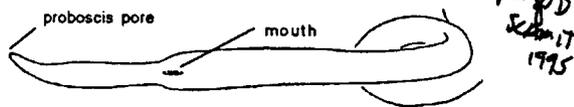
***Anopla* sp. SD 2* (X-113) = *Anopla* sp. of SCAMIT 1995**



body generally small and thin (relative to *T. polymorphus*), rounded; head sometimes flattened; body w/ thin brownish-red band anteriorly, followed by broad purplish-brown band that fades to speckled pattern posteriorly; lateral sense organ apparent as white ring (one on each side)
***Tubulanus nothus** (X-48)**

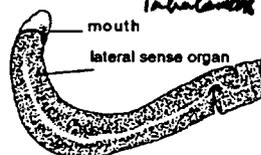


body white thin, elongate, and thread-like, smooth, and frequently coiled; head very elongated and pointed; proboscis pore well separated from slit-like mouth; w/o white band and lateral sense organ. ***Anopla* sp. SD 3* (X-102) (= *Procephalothrix major*)**

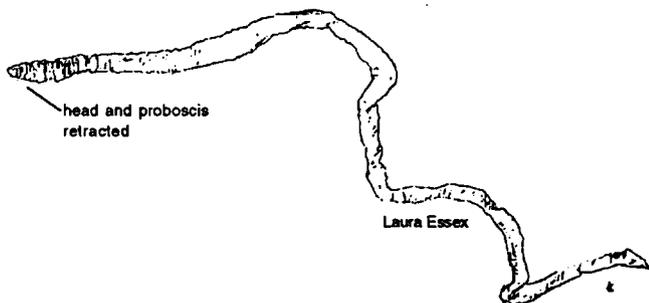


from Hyman, 1951 (as *Procephalothrix major*)

body generally large (like *T. polymorphus*), rounded, and dark reddish to brownish red w/ lighter lateral line running longitudinally; head rounded and much lighter than body, set off from body by deep transverse groove; lateral sense organ apparent as white ring (one on each side). ***Tubulanidae* sp. SD 1 (X-114)**



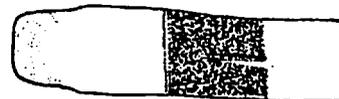
body white, thin, elongate (not thread-like), and extremely wrinkled anteriorly (due to contracted head); head elongated and pointed (when not contracted); proboscis pore and mouth may not be apparent because of contracted nature of head; w/o white band or lateral sense organ
***Zygopolia rubens* (X-115)**



body generally small, rounded; head with 2 dark spots anteriorly (they look like eyes); body w/ many thin black bands (rings) with broader brown band mid-body, and 4 longitudinal cream colored lines; lateral sense organ not apparent
***Tubulanus cingulatus** (X-103)**



body generally large, rounded; head sometimes flattened and spatulate; body w/o thin white band anteriorly, but w/ broad brown band which is broken dorsally by a thin triangular patch of white posteriorly; w/o lateral sense organ
***Paleonemertea* sp. SD 1* (X-104)**



Not as above. Record as **Nemertea**. Give to Dean or Megan for FID

Not as above. Record as **Nemertea**. Give to Dean or Megan for FID

**NEMERTEANS COLLECTED FROM POINT LOMA
(as of July 1994)**

Class Anopla:

Order Palaeonemertea

- Family Carinomidae**
Carinoma mutabilis Griffin 1898
- Family Cephalotrichidae**
Procephalothrix major (Coe 1930)
- Family Tubulanidae**
Tubulanus cingulatus (Coe 1904)
Tubulanus nothus (Berger 1892)
Tubulnaus polymorphus Renier 1804
- Family uncertain**
Palaeonemertea sp. C* Cadien

Order Heteronemertea

- Family Baseodiscidae**
Baseodiscus sp.*
- Family Lineidae**
Cerebratulus californiensis Coe 1905
*Cerebratulus lineolatus** Coe 1905
*Cerebratulus marginatus** Renier 1804
Lineidae sp. 1 City of San Diego 1994
Lineus bilineatus (Renier 1804)
*Lineus ruber** (O. F. Muller 1771)
Micrura alaskensis Coe 1901

Class Enopla

Order Hoplonemertea

Suborder Monostyliferoidea

- Family Ototyphlonemertidae**
Ototyphlonemertes spiralis Coe 1940
- Family Emplaectonematidae**
Paranemertes californica Coe 1904
- Family Prosorhochmidae**
Oerstedtia dorsalis (Abildgaard 1806)
Prosorhochmus albidus (Coe 1905)
Prosorhochmidae sp. 1 City of San Diego 1994
- Family Amphiporidae**
Amphiporus bimaculatus Coe 1901
Amphiporus imparispinosus Griffin 1898
- Family uncertain**
Monostylifera sp. 1 City of San Diego 1994

Suborder Polystyliferoidea

- Polystylifera sp. 1 City of San Diego 1994

*Voucher sheets not available for these species.

NEMERTEAN LITERATURE

- *1. Taxonomic Atlas of the Benthic Fauna of the Santa Maria Basin and Western Santa Barbara Channel. Santa Barbara, CA: Santa Barbara Museum of Natural History; 1994; 1. (Blake, James A.; Lissner, Andrew; v. Introduction, Benthic Ecology, Oceanography, Platyhelminthes, and Nemertea).
- *2. Bernhardt, Patricia. A Key to the Nemertea from the Intertidal Zone of the Coast of California. Unpublished literature. ; 1979.
3. Coe, Wesley R. Geographical distribution of the nemerteans of the Pacific coast of North America, with descriptions of two new species. Journal of the Washington Academy of Sciences. ; 1944; 34(1): 27-32.
- *4. Coe, Wesley R. Revision of the Nemertean Fauna of the Pacific Coasts of North, Central, and Northern South America. Allan Hancock Pacific Expeditions. ; 1940; 2(13): 247-322.
5. Correa, Diva Diniz. Nemerteans from California and Oregon. Proceedings of the California Academy of Sciences. ; 1964; 31(19): 515-558.
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- *7. Gibson, Ray. Synopsis and classification of living organisms. Nemertea. ; 1982; 2: 823-846.
- *8. Hyman, Libbie Henrietta. The Invertebrates: Platyhelminthes and Rhynchocoela, The acoelomate Bilateria. New York, New York: McGraw-Hill Book Company, Inc.; 1951; II.
9. Kirsteuer, Ernst. Marine, benthonic nemerteans: how to collect and preserve them. American Museum Novitates. ; 1967(2290): 1-10.
- *10. MacEwen, Patricia. A Key to the Common Nemertea of Southern California. Unpublished literature. ; 1980.
11. Riser, Nathan W. The morphology and generic relationships of some fissiparous heteronemertines. Proceedings of the Biological Society of Washington. ; 1994; 107(3): 548-556.

* Useful taxonomic references (illustrations, keys, group descriptions)