Next Meeting: January 14, 1985
Specimen Exchange group: Capitellidae
Topic Taxonomic Group: Lysianassidae

MINUTES FROM DECEMBER 10, 1984

Guest Speaker - Dr. Pat Hutchings: Be sure to note that Dr. Pat Hutchings (the Australian Museum, Sydney) will be giving a talk on the systematics of Mediomastus (Polychaeta, Capitellidae) during the upcoming January meeting. Pat will be in Los Angeles for one week doing research on polychaetes at the Allan Hancock Foundation, and has kindly agreed to visit us and speak at our meeting.

1985-1986 Proposed Agenda - SCAMIT Taxonomic Standardization Program:
February exchange/March topic Arenicolidae, Maldanidae
March exchange/April topic No exchange; cataloging of collection
April exchange/May topic Oweniidae, Sabellariidae, Pectinariidae
May exchange/June topic Miscellaneous gammarideans
June exchange/July topic Tanaidacea
July exchange/August topic Mytiloida
August exchange/September topic Scaphopoda, Aplacophora
September exchange/October topic Ampharetidae
October exchange/November topic Terebellidae
November exchange/December topic Sipuncula, Echiura
December exchange/January topic Oligochaeta
January exchange/February topic Cumacea
SCAMIT Library: Thanks to many generous donations the SCAMIT library is developing into a valuable resource. In order to make this collection more accessible to members the literature must be catalogued and a filing system established. On Saturday, January 26th, John Dorsey and others will host a cataloging session at the Cabrillo Marine Museum. Additional help would be appreciated. Contact John at 772-3394 ext. 272 if you wish to participate.

Computer Systems: A long range goal of SCAMIT is the purchase of a computer system for cataloging specimens and library additions. If you have any recommendations, please contact John Shisko at 772-3394 ext. 269.

Cabrillo Marine Museum Reference Collection: The Museum currently is conducting an inventory of their reference collection. SCAMIT will be helping the museum standardize scientific (CMM) nomenclature monthly meetings. Cathy Crouch will inform SCAMIT members before each meeting as to what group of species she will present for standardization.

John Dorsey and Tony Phillips Comments on Syllis (Ehlersia): In a paper to be given at the polychaete conference in Denver, December 28, 1984, John and Tony will talk about the following three species of Syllis (Ehlersia) from southern California: S. (Ehlersia) heterochaeta Moore, 1909, S. (Ehlersia) hyperioni n.sp., and S. (Ehlersia) intermedia n.sp. Based on examination of specimens from throughout the Bight and a single specimen taken by Moore off of Point Pinos, Monterey, S. (Ehlersia) heterochaeta was found to vary little in the morphology of its setae, however, the ratio of long to short setal appendages was greater in the Point Pinos specimens (X = 4.46 in median segments) compared with many southern California worms (X = 3.89 in median segments, individuals from SMB). The middle pair of eyes in southern California worms lacked lenses, but the specimen from Point Pinos had lenses; all material examined lacked the blotch of pigment behind the posterior eyes as described by Moore. Syllis (Ehlersia) hyperioni n. sp. is characterized by being thread-like, eyeless and composite setae all bidentate with a few superiormost with greatly elongated appendages (X ratio = 8.52 in posterior setigers). Syllis (Ehlersia) intermedia n. sp. also is eyeless and has all bidentate composite setae, but the body is much more robust and ratio of setal appendages much less than S. (Ehlersia) hyperioni (X = 4.06 in median segments). John and Tony cautioned about the use of the term "spiniger" in this group of syllids; many authors have published keys wherein S. (Ehlersia) possesses a few superiormost spinigers but S. (Typosyllis) has only falcigers. Many species of S. (Ehlersia) have true spinigers, but others have elongated setal appendages with bidentate tips, therefore not true spinigers. A better character for this group is the ratio of long to short setal appendages, as discussed in John and Tony's paper which will be submitted to the Proceedings of the Biological Society of Washington, so names of new species should not be used until published.

Sue Williams Reviews Some Ampharetidae: Sue Williams soon will be submitting a paper for publication dealing with the taxonomy of southern California Ampharetids (Polychaeta). In her paper she will be making the following changes:
Travels with Olga:  
24 Queensberry Pl. S.W.7  
London, England  
30 July 1939

Dear Folks: It is Sunday, and since the museum is closed to working, I have decided to stay in my "pension" rather than venture out sight-seeing in London, although there are many places I should like to see.

I have been in London two weeks now, and am much better adjusted to the mode of living than I first was. My greatest difficulty at first was the matter of eating. The restaurant system here is totally different from that in California, and foods one normally eats there are unobtainable or unsatisfactory here, although I have learned that there are plenty of others, and very good. Breakfast is now always served in my room (though rather late, anywhere from 8 to 9 AM). It consists always of a pot of tea, toast and marmalade, and an egg, with or without bacon. This is a typical English breakfast and quite satisfactory. Lunch consists usually of a "shepherd's pie" (something like a meat pie), and a cup of tea, or any other hot entree. Chipped potatoes, (we call them French fried) and fish, or cheese and tomatoes (hot), "huck rabbit", etc., etc. Many other combinations that at first seemed strange to me, are now quite satisfactory. Dinners were at first a real problem to me, before I learned where London really eats. A so-called dinner is never under 2/6 (about 65 cents and tip) and usually 3/- or 4/- (about $1.00). Now I usually go to one of 3 companies (chain stores). Lyons (Caterers to the King by appointment!), ABC (Aerated Bread Company) or EDCL (Express Dairy Company, Ltd). None of these names looks like a restauranteur, and unless one gets into the place, there is little to indicate the presence of a restaurant. I have learned, however, that they have extensive menu lists...
and good reasonable prices. Beautiful, delicious pastries, unlike anything one sees in America, are eaten everywhere, and are quite cheap (about 2 1/2 d which is 5 cents each). Tea at four PM is an institution. One could not go through the day without it. And tea is much better here than at any other place I have ever had it.

I am living on a street where street musicians seem to find a profitable business. There are young men and old, singly, in duets or groups, singers, violinists, organ grinders. An old lady comes occasionally. She nearly always sings "Lead Kindly Light". This morning, among others, there was a very well-dressed, elderly English gentleman with top hat, cane and spats, walking in the middle of the street, singing a song whose title I did not catch, but it was Irish and sounded something like "In my little old log cabin On La Cree". Several people hurled pennies down at him. When these big pennies (2 cents) are thrown down from a 5th story window, they really clatter. My window is a second-story (called first floor always in England) opening out onto a balcony. The windows are long and high, and have on the inside a set of folding doors to close them in addition to heavy cretonne curtains.

The place at the British Museum (Natural History) where I work, is rather unusual in several respects. The particular division is "The New Spirit Building", an annex to the main building, on the far side. It contains most of the alcoholic-type specimens in the BMNH, and about it are 4 floors of offices and laboratories. I am on the top floor, in the division of Annelids. To gain access to these laboratories requires a bit of training. There is only one entrance way to the whole set of buildings. Everything is heavily guarded. Not even the most trusted worker (or even the director) is given a key except while in the building. At night he leaves it at the entrance desk. When I enter, I descend to the ground floor, pass through many, semi-dark passages, most of which are lined by specimen cases not now in use. Right now this what leads through many galleries of all sorts of cows and oxen, goats and sheep, life-sized casts of African bushmen in their native habitats, African pygmies, and antlered mammals. I feel as if I have acquired a speaking friendliness with all of these strange beasts. After meandering through several long galleries, I come at length to the fire preventive department, a guard house, a receiving department, before I arrive at the entrance of the "Spirit Building". From there I take the lift to the top floor and enter a large, pleasant, north-side laboratory. To the one side is Mr. Monro's laboratory, to the back the door leads to the specimen stacks. Sometimes, when I go out with Mr. Monro, we go yet another way, through long galleries of corals, humming birds (thousands of them), large brilliant cassowaries and other birds. Anyone may, of course, examine these marvelous collections.

I am planning to go to Plymouth, Cornwall (the Marine Biological Laboratories), during the week of August 14th. It is a day's journey from here, via the southern English coast, and in far-off S.W. England. Plymouth is one of the world's most famous biological stations, and I should be loathe to miss it, now that I am in England. I return here after a few days.
The political picture from this vantage point is anything but encouraging London's numerous green parks are full of trenches. Overhead, in the sky, are the "barrage blimps". I had not heard of them before. They are gas-filled dirigibles (unmanned), tied up to a lot somewhere, and connected with cross wires to other nearby blimps similarly attached. The idea is to protect London, for a 7-mile radius from Charing Cross, from diving, bombarding planes. It is believed that the cross wires of the barrage blimps would cause a diving plane to be wrecked. The whole set-up looks very ineffectual, and the blimps are much too low. I really do not see how London can protect itself from aerial bombardment. The big "black-out" is being staged on the night of August 9th, when, at 12:30 PM, every light in London will be either out or so subdued as to be invisible from the air, the purpose being complete concealment in event of war. You may know, the whole issue, (Danzig, etc.), is supposedly coming to a head at the end of August. Actually, there is so much preparedness, and talks of war, that it does not seem possible to put it off much longer. People agree that it will make a "nasty mess", but that it is bound to be inevitable, ultimately.

London is very cosmopolitan. East Indians are quite numerous. One also sees (or hears) many French people, Italians, Americans, etc. One can always recognize an American, (or I mean, I can). They use expressions that do not belong to an Englishman. Yesterday, on the street, I heard, "give my best to the Vassar girl". An Englishman would never give "his best" like that! I entered a book store and found a Chicago buyer heckling over prices. He could have been nothing but Chicago. Yes, it turned out he was Norman Hall, well known on both sides of the Atlantic. And the French, etc. Had I room and time, I could add a lot. However, best wishes to you all. I hope some of you will someday enjoy London as I am.
A LIST OF COMMON MARINE BIVALVES OF THE
SUBCLASS ANOMALODESMATA FROM SOUTHERN CALIFORNIA

BY

PHILIP CHANG
HYPERION TREATMENT PLANT
12000 Vista Del Mar
Playa del Rey, California 90291

ANOMALODESMATA
PHOLADOMYOIDA
PANDORACEA

PANDORIDAE Rafinesque, 1815
Pandora bilirata Conrad, 1855
   Syn. Pandora (Kennerlia) bscarinata Carpenter, 1864
   Syn. Kennerlia filosa Carpenter, 1864
Pandora filosa Carpenter, 1864
   Syn. Kennerlia filosa Carpenter, 1864
Pandora puctata Conrad, 1837
   Syn. Pandaora depressa auctt not Sowerby, 1830

LYONSIIDAE Fisher 1887
Entodesma inflatum (Conrad, 1837)
   Syn. Lyonsia diaphana Carpenter, 1856
Entodesma pictum (Sowerby, 1834)
   Syn. Lyonsia inflata Conrad, 1f837
   Lyonsia picta Sowerby, 1834
   Lyonsia diaphana Carpenter, 1856
   Entodesma spongiophila Dall, 1871
Entodesma saxonlicolum (Baird, 1863)
Lyonsia californica Conrad, 1837
   Syn. Lyonsia haroldi Dall, 1915
   Lyonsia pugetensis Dall, 1913
   Lyonsia hyalina auctt not Conrad, 1831
   Lyonsia gouldii Dall, 1915
   Osteodesma nitidum auctt not Fabricius, 1798
   Mya striata auctt not Montagu 1815
Lyonsia nesiotes Dall, 1915
   Syn. L californica auctt not Conrad, 1837
Mytilimeria nuttalii Conrad, 1837

PERIPLOMATIDAE Dall, 1895
Periploma discus Stearns, 1890
Periploma plainiusculum Sowerby, 1834
   Syn. Periploma argentaria Conrad, 1837
   Periploma obtusa Conrad, 1837
   Periploma papyracea Carpenter, 1856
   Periploma lenticularis Sowerby, 1834
   Periploma excurva Carpenter, 1855
   Anatina alta C.B. Adams, 1852
Periploma sulcatum Dall, 1904
THRACIIDAE Stoliczka, 1870

Asthenothaerus villosior Carpenter, 1864
   Syn. Thracia diegensis Dall, 1915
Cyathodonta dubiosa Dall, 1915
   Syn. Thracia plicata auctt not Deshayes, 1832
   Cyathodonta undulata auctt not Conrad, 1849
   Cyathodonta pedrocina Dall, 1915
Thracia curta Conrad, 1837
   Syn. Thracia curta auctt not Conrad, 1837
   Syn. Thracia schenki Tegland, 1933

POROMYIDAE Dall, 1886

Poromya tenuiconcha Dall, 1913
   Syn. Poromya soyoae Habe, 1952
   Dermatomya tenuiconcha sagamiensis
      Okutani, 1962

CUSPIDARIIDAE Dall 1886

Cardiomya balboae (Dall, 1916)
   Syn. Cuspidaria balboae Dall, 1916
Cardiomya californica (Dall, 1886)
   Syn. Cuspidaria californica Dall, 1886
Cardiomaya costata (Sowerby, 1834)
   Syn. Cuspidaria costata (Sowerby, 1834)
   Cuspidaria dulcis Pilsbury & Lowe, 1932
   Neaera costata Bush, 1883
   Antina costata Sowerby, 1834
Cardiomya isolirata Bernard, 1969
   Syn. Cuspidaria balboae auctt not Dall, 1916
Cardiomya pectinata (Carpenter, 1864)
   Syn. Neaera pectinata Carpenter, 1864
   Cuspidaria pectinata (Carpenter, 1864)
   Cuspidaria behringensis (Leche, 1883)
   Cardiomya robiginosa Okutani & Sakurai, 1964
   Cardiomya behringensis Okutani Scarlato, 1972
Cardiomya planetica (Dall, 1908)
   Syn. Cuspidaria planetica Dall, 1908
Cuspidaria parapodema Benard, 1919
   Syn. Cuspidaria apodema auctt not Dall, 1916
   Neaera obesa auctt not Loven, 1846
Leiomya scabra (Carpenter, 1864)
   Syn. Plectodon scaber Carpenter, 1864

VERTICORDIIDAE Stoliczka, 1871

Verticordia ornata (d'Orbigny, 1853)
   Syn. Hippagus novemcostatus Adam & Reeve, 1850
   Verticordia caelata Verrill, 1882
<table>
<thead>
<tr>
<th>SPECIES</th>
<th>GEOGRAPHY RANGE EXTENSION</th>
<th>DEPTH (m)</th>
<th>BOTTOM TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PANDORIDAE</td>
<td></td>
<td></td>
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<tr>
<td><em>Pandora bilirata</em></td>
<td>Forrester Is. Alaska to Pt. Abreojos, Baja, CA</td>
<td>5-284</td>
<td>mud &amp; clay</td>
</tr>
<tr>
<td><em>Pandora filosa</em></td>
<td>Nunivak Is. Bering Sea to Todos Santos Bay, Baja, CA</td>
<td>20-300</td>
<td>gravel</td>
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<td><em>Pandora punctata</em></td>
<td>Vancouver Is. to Gulf of Calif.</td>
<td>2-50</td>
<td></td>
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<tr>
<td>LYONSIIDAE</td>
<td></td>
<td></td>
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<tr>
<td><em>Entodesma inflatum</em></td>
<td>Vancouver Is. to Guayaquil, Ecuador</td>
<td>int.-37</td>
<td></td>
</tr>
<tr>
<td><em>Entodesma saxicolum</em></td>
<td>Aleutian Is. to Baja, CA</td>
<td>inter-tidal holes &amp; crevices</td>
<td></td>
</tr>
<tr>
<td><em>Entodesma pictum</em></td>
<td>Alaska to Ecuador</td>
<td>int.-80</td>
<td>sand &amp; gravel</td>
</tr>
<tr>
<td><em>Lyonsia californica</em></td>
<td>Sitka, Alaska to Todos Santos, Baja, CA</td>
<td>int.-100</td>
<td>sandy mud</td>
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<tr>
<td><em>Lyonsia nesiotes</em></td>
<td>Catalina &amp; Coronado Island</td>
<td>10-120</td>
<td></td>
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<tr>
<td><em>Mytilmeria nuttalli</em></td>
<td>Forrester Island, Alaska to Mexico</td>
<td>0-40</td>
<td>in tunicates</td>
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<tr>
<td>PERIPLOMATIDAE</td>
<td></td>
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<tr>
<td><em>Periploma discus</em></td>
<td>Monterey, CA to El Salvador</td>
<td>0-10</td>
<td>mud</td>
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<tr>
<td><em>Periploma planiusculum</em></td>
<td>Pt. Conception, CA to Nigritos, Peru</td>
<td>3-6</td>
<td>mud</td>
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<tr>
<td><em>Periploma sulcatum</em></td>
<td>San Pedro Bay &amp; Redondo Beach</td>
<td></td>
<td></td>
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<tr>
<td>THRACIIDAE</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><em>Asthenothaerus villosior</em></td>
<td>San Pedro, CA to Cape San Lucas, Baja, CA</td>
<td>0-65</td>
<td>mud</td>
</tr>
<tr>
<td><em>Cyathodonta dubiosa</em></td>
<td>Monterey, CA to Champa-perico, Guatemala</td>
<td>5-75</td>
<td></td>
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<tr>
<td>SPECIES</td>
<td>GEOGRAPHY RANGE EXTENSION</td>
<td>DEPTH</td>
<td>BOTTOM TYPE</td>
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<tr>
<td>Thracia curta</td>
<td>Icy Cape, Arctic Ocean to Baja &amp; Ecuador</td>
<td>40-120</td>
<td>shale</td>
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<tr>
<td>Thracia trapezoides</td>
<td>Craig, Alaska to Redondo Beach, CA</td>
<td>20-200</td>
<td></td>
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<tr>
<td><strong>POROMYIDAE</strong></td>
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<tr>
<td>Poromya tenuiconcha</td>
<td>Alaska Peninsula to Coronado Is.</td>
<td>60-1318</td>
<td>rocky</td>
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<tr>
<td><strong>CUSPIDARIIDAE</strong></td>
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<tr>
<td>Cardiomya balboae</td>
<td>Cortez Bank, CA to Catalina Island</td>
<td>45-170</td>
<td></td>
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<tr>
<td>Cardiomya californica</td>
<td>Puget Sound, WA to So. CA &amp; Galapagos Island</td>
<td>15-640</td>
<td>mud</td>
</tr>
<tr>
<td>Cardiomya costata</td>
<td>So. CA &amp; No. Gulf of CA to Guayaquil, Ecuador &amp; the Galapagos Islands</td>
<td>4-95</td>
<td></td>
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<tr>
<td>Cardiomya isolirata</td>
<td>Pt. Loma, CA to central part of the Gulf of CA</td>
<td>55-190</td>
<td></td>
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<tr>
<td>Cardiomya pectinata</td>
<td>Alaska to Panama Bay</td>
<td>9-265</td>
<td></td>
</tr>
<tr>
<td>Cardiomya planetica</td>
<td>Pribilof Is. Bering Sea to Cedros Is., Baja, CA</td>
<td>20-2400</td>
<td></td>
</tr>
<tr>
<td>Cuspidaria parapodema</td>
<td>Off Sitka, Alaska to Panama Bay</td>
<td>50-320</td>
<td></td>
</tr>
<tr>
<td>Leiomya scabra</td>
<td>Puget Sound, WA to Panama &amp; Galapagos Is.</td>
<td>20-320</td>
<td></td>
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<tr>
<td><strong>VERTICORDIIDAE</strong></td>
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<tr>
<td>Verticordia ornata</td>
<td>Cosmopolitan: Catalina Is., CA to Panama Bay; Japan, Antilles, Peru, Galapagos Is.; Mass. to Florida, West Indies, Bermuda &amp; Brazil.</td>
<td>10-400</td>
<td></td>
</tr>
</tbody>
</table>
Asthenothaerus villosior Carpenter, 1864

Thraciidae

SCAMIT Code: LACO 41
Date examined: December 10, 1984
Voucher by: Paul Scott (SBMNH)

Synonymy:

Thracia diegensis

Literature:

Palmer, 1958 (holotype photo); Oldroyd, 1924; Dall, 1915 (as T. diegensis)

Diagnostic characters:

1. Hinge plate thin or absent, hinge teeth completely absent.
2. Ligament internal
3. Resilium directly beneath beaks, without buttress.
4. Small size, adults to 10 mm in length.

Additional notes:

1. Juveniles of Asthenothaerus, Periploma, and Thracia are easily confused externally. In specimens less than 8 mm, the hinge structure must be observed. Periploma and Thracia have distinct hinge tubercles even at a juvenile stage.

Depth range: Intertidal to 65 m.

Distribution: San Pedro, California to Cabo San Lucas, Baja California, Mexico

Drawings by Laurie Marx, Santa Barbara Museum of Natural History
Lyonsia californica Conrad, 1837

Lyonsiidae

SCAMIT Codes: OCSD 51, PL 55, LACO 42, SCCWRP 48

Date Examined: December 10, 1984
Voucher by: Paul Scott (SBMNH)

Synonymy:
- Osteodesma nitidum Gould, 1853
- Lyonsia californica haroldi Dall, 1915
- Lyonsia gouldii Dall, 1915

Literature:
- Dall, 1915; Oldroyd, 1924; Grant & Gale, 1931; Abbott, 1974.

Diagnostic characters:
1. Shell thin, fragile, opalescent inside and out.
2. Shell elongate and inflated anteriorly under beaks.
3. Commonly has radial lines in periostracum.
4. Commonly has sediment adhering to periostracum.

Additional notes:
1. At the present time we are using Bernard's (1983) synonymy of Lyonsia gouldii in that no distinct characters can be found for this species.
2. Juvenile Entodesma picta (a rare species) may be confused with L. californica. Be aware of any aberrent juvenile specimens which might be Entodesma.

Depth range: Intertidal to 100 m.

Distribution: 54N to 17N (Bernard, 1983)

Drawings by Laurie Marx, Santa Barbara Museum of Natural History
Periploma discus  Stearns, 1891  
Periplomatidae  

SCAMIT Codes:  OCSD 50, PL 54  
Date examined:  December 10, 1984  
Voucher by:  Paul Scott (SBMNH)

Synonymy:  
None.

Literature:  
Oldroyd, 1924; Abbott, 1974

Diagnostic characters:  
1. Beaks with radial crack which is strong in adults, weak in juveniles.  
2. Adults discoid in shape, beaks central.  
3. Postero-dorsal margin with slight truncation.

Additional notes:  
1. _P. discus_ is easily differentiated from _Periploma planiusculum_ by the centrally located beaks and discoid shape (adults only) of the former.  
2. Juveniles of _P. discus_ are easily confused with juveniles of _Thracia trapezoides_ and _Asthenothaerus villosior_ externally. All three species have juveniles with a blunt posterior rostrum and prominent central beaks. Juveniles must be opened to observe the hinge structure. _P. discus_ has a distinct spoon chondrophore which is directly below or slightly posterior of the beaks. The chondrophore is evident as a large posterior tooth in small (3-5 mm) juveniles.

Depth range:  Intertidal to 40 m

Distribution:  37N to 23N (Bernard, 1983)

See reverse side for illustrations
Periploma discus - continued

Drawings by Laurie Marx, Santa Barbara Museum of Natural History
Pandora filosa (Carpenter, 1864)  

Pandoridae

SCAMIT Code: HYP 39  
Date examined: December 10, 1984  
Voucher by: Paul Scott (SBMNH)

Synonymy:  
Kennerlia filosa Carpenter, 1864

Literature:  
Palmer, 1958 (Syntype photo); Oldroyd, 1924; Abbott, 1974.

Diagnostic characters:  
1. Shell compressed, thin, inequivalve; right valve almost flat, left valve moderately convex; opalescent inside and out.  
2. Posterior drawn out into a rostrum in adults.  
3. Postero-dorsal margin nearly straight.

Additional notes:  
1. Juveniles of P. filosa and P. bilirata Conrad, 1855 are easily confused. The truncate posterior of P. bilirata adults does not appear to be found in juveniles less than 8 mm. For this reason it is suggested that specimens smaller than 8 mm be identified as Pandora sp. juvenile.

Depth range: 20 to 300 m (Bernard, 1983)

Distribution: Alaska to Ensenada, Baja California, Mexico

Drawing by Laurie Marx, Santa Barbara Museum of Natural History
Southern California Anomalodesmata Bibliography


Publications with original descriptions are followed by the names of species described; all synonyms listed previously are included.


Dalyell, J.G. 1853. The Powers of the Creator displayed in the creation; or observations on life amidst the various forms of the humbler tribes of aminated nature with practical comments and illustrations. London, John van Voorst. 2, :1-359, 46 pls. (Polychaetes on pp. 142-252, pls. 20-34). *Siphonostoma gelatiosus* (p. 256)


Pherusa abyssalis (p. 226), Diplocirrus micans (p. 218), Fauveliopsis rugosus (p. 220), Flabelliderma macrochaeta (p. 222), Flabelligella mexicana (p. 223), Piromis hospitis (p. 229), Therochaeta pacifica (p. 231)


Uncopherusa (p. 36), U. bifida (p. 36) Fauveliopsis armata (p. 37), F. magna (p. 38), Mucibregma (p. 20), M. spinosa (p. 20)


Uncispionidae (p. 530), Unicispio (p. 534), U. hartmanae (p. 534)


Macrochaeta (p. 312)


Acrocirrus (p. 60)


Pycnoderma (p. 540)


Diplocirrus (p. 194)


Trophonia borealis (p. 38)


Stylarioides dimissus (p. 31)


Ilyphagus ilyvestis (p. 130), Brada glabra (p. 129)

*Asclerocheilus californicus* (p. 56)

*Flabelligera* (p. 176)

*Sclerocheilus acirratus* (p. 199)

*Flabelliderma* (p. 286)

*Fauveliopsidae* (p. 1411)


Flabelligera infundibularis (p. 417), Trophonia papillata (p. 416)

Trophonia goodsirii (p. 371)

Flemingia (p. 447), F. muricata (p. 447)

Ctenodrilidae

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