

APPENDIX C.

Species of Lumbrineris with assignment to groups and subdivisions

The subdivisions used may be summarized as follows:

- I. With composite hooks
 - A. With composite spinigers
 - B. Without composite spinigers (including all forms where the presence of composite spinigers have not been noted)
 - a. With bidentate posterior hooks
 - b. With multidentate posterior hooks (including all forms where the dentition of the hooks have not been noted)
 - 1. Maxilla III without teeth or unidentate
 - 2. Maxilla III bi- or multidentate
 - 3. Dentition of maxilla III unknown
- II. With simple hooks only
 - a. With bidentate posterior hooks
 - b. With multidentate posterior hooks (including all forms where the dentition of the hooks have not been noted)
 - 1. Maxilla III without teeth or unidentate
 - 2. Maxilla III bi- or multidentate
 - 3. Dentition of maxilla III unknown
- III. Hooks absent
- IV. Character of hooks unknown

Groups III and IV are small and have not been further divided.

The list includes all species named in Hartman (1959, 1965a) and species published after 1965. Species that have been referred to other families or characterized as "indeterminable" or "questionable" in Hartman (1959, 1965a) have been excluded from the list. Synonyms have been excluded only when the author that referred one species to another re-described the types of both, or compared the type of one species with a well established one in the same area. Synonyms suggested by Hartman (1959, 1965a) are indicated in the list. The original descriptions of a number

of well established species found in western Europe and in the eastern Pacific Ocean are incomplete; in such cases the descriptions have been emended from standard reference works and these are cited after the original description.

Group I. A.

adriatica (Fauvel, 1940, pp. 16-18, fig. 3a-i); Adriatic Sea
adriatica foresti (Fauvel and Rullier, 1959, pp. 174-175, fig. 5a-i);
 Adriatic Sea
composita Hartmann-Schroeder, 1965, pp. 181-183, figs. 157-160; Chile
januarii (Grube, 1879, p. 91); Brazil, see also Kinberg, 1865, p. 570, and
 Hartman, 1948, pp. 93-94, pl. 14, fig. 9

Group I. B. a.

bidens (Ehlers, 1887, pp. 103-104, pl. 31, figs. 7-17); off Florida
maxillosa (Ehlers, 1918, pp. 241-243, pl. 16, figs. 8-16); Aru Islands

Group I. B. b. 1.

albidentata (Ehlers, 1908, pp. 97-98, pl. 13, figs. 7-13); South Africa
 (Augeneria albidentata)
albidentata sadko (Annenkova, 1952, p. 151, fig. 5); Bering Sea
 (Augeneria albidentata sadko)
amboinensis (Grube, 1877, p. 532); Amboina
bistriata (Levenstein, 1961, p. 157, fig. 4); Bering Sea
californiensis Hartman, 1944, pp. 163-165, pl. 12, figs. 257-262;
 California and western Mexico
cingulata (Ehlers, 1897, pp. 76-78, pl. 5, figs. 119-124); Patagonia
 (sarsi)
cedroensis, new species
cruzensis Hartman, 1944, pp. 165-166, pl. 12, figs. 263-269; California
eugeniae, new species
homodontata Hartmann-Schroeder, 1965, pp. 176-178, figs. 148-152; Chile
ligulata Berkeley and Berkeley, 1941, pp. 38-39; southern California
meteorana (Augener, 1931, pp. 300-302, fig. 8a-c); west Africa

mirabilis (Kinberg, 1865, p. 568); Australia, see also Augener, 1922,
pp. 30-31, fig. 8-8a

oxychaeta (Gravier, 1900, pp. 275-278, pl. 14, figs. 96-98, textfigs.
148-153); Red Sea

pallida Hartman, 1944, pp. 166-167, pl. 12, figs. 270-274, pl. 13, figs.
275-277; southern California and western Mexico

paucidentata Treadwell, 1921, pp. 99-100, pl. 9, figs. 1-4; textfigs.
357-364; Florida, see also Hartman, 1956, p. 288

quinquedentata (Kinberg, 1865, p. 568); Argentina

vanhoeffeni Michaelsen, 1898, pp. 123-124, figs. 2-3; Greenland

Group I. B. b. 2.

albifrons (Crossland, 1924, pp. 50-55, textfigs. 65-72); Chile (inflata)
annulata Hartmann-Schroeder, 1960, pp. 30-31, figs. 67-71; Peru
caledonica (Pruvot, 1930, pp. 73-75, fig. 6a-e); New Caledonia (inflata)
coccinea (Renier, 1804, p.19); Mediterranean Sea, see also Fauvel, 1923,
pp. 432-433, fig. 172g-n

floridana (Ehlers, 1887, p. 103, pl. 30, figs. 10-15); Florida

floridana polygnatha Monroe, 1933, p. 260, fig. 9; Florida

grandis (Treadwell, 1906, pp. 1170-1171, figs. 52-56); Hawaii, see also
Hartman, 1942, pp. 114-116, fig. 10h-1

gurjanovae (Annenkova, 1934, p. 324, figs. 3-4); Bering Strait (inflata)
hebes Verrill, 1880, p. 174; Maine

index Moore, 1911, pp. 288-289, pl. 19, figs. 119-127; California

inflata Moore, 1911, pp. 289-291, pls. 19-20, figs. 128-134; California

japonica (Marenzeller, 1879, p. 137, pl. 5, fig. 3a-d); Japan

latreilli Audouin and Milne Edwards, 1834, pp. 168-170, pl. 3B, figs.

13-15; France, see also Fauvel, 1923, pp. 431-432, fig. 171m-r

limbata Hartmann-Schroeder, 1965, pp. 178-181, figs. 153-156; Chile

limicola Hartman, 1944, pp. 161-162, pl. 11, figs. 230-237; southern
California

magalhaensis (Kinberg, 1865, p. 568); Strait of Magellan, see also

Kinberg, 1910, p. 47, pl. 18, fig. 35a-g, and Hartman, 1948, p. 93,
pl. 14, figs. 1-3

nuchalis Treadwell, 1921, pp. 104-106, pl. 9, fig. 5, textfigs. 386-394;
West Indies

obtusa (Kinberg, 1865, p. 569); Chile, see also Kinberg, 1910, p. 47, p.
18, figs. 36a-g, and Hartman, 1948, pp. 92-93, pl. 14, fig. 7

oculata (Ehlers, 1908, pp. 96-97 and 167, pl. 13, figs. 1-6); South Afr
patagonica Hartmann-Schroeder, 1962, pp. 119-120, figs. 124-127;

Patagonia

sphaerocephala (Schmarda, 1861, p. 116, 3 textfigs.); New Zealand, see
also Ehlers, 1905, p. 34

striata Hartmann-Schroeder, 1962, pp. 120-122, figs. 128-131; Chile
tentaculata (Monro, 1930, pp. 138-142, fig. 52a-k); Antarctic Ocean,
(genotype Augeneria)

Group I. B. b. 3.

algida (Wirén, 1901, p. 253); Arctic Ocean, abyssal

kerguelensis (Grube, 1878, p. 92); Kerguelen Islands (magalhaensis)

macquariensis Benham, 1921, pp. 71-72, pl. 8, figs. 76-81; Australian
Antarctic Ocean

minuscula Moore, 1911, pp. 294-295; Hawaii, see also Treadwell, 1906,
p. 1171, figs. 57-58, and Hartman, 1942, p. 116, fig. 10e-f

quasibifilaris Monro, 1937, pp. 297-298, fig. 18a-e; Gulf of Aden

Group II. a.

aberrans Day, 1963, pp. 411-412; South Africa

acuta (Verrill, 1875, p. 39); Rhode Island, see also Hartman, 1942,
p. 114, fig. 10a-d

biuncinata Hartmann-Schroeder, 1960, pp. 26-28, figs. 56-60; Peru

crassicephala Hartman, 1965, pp. 117-118, pl. 20, figs. c-f; off Bermuda

mucronata (Ehlers, 1908, pp. 95-96, pl. 12, figs. 9-13); west Africa

paradoxa (Saint-Joseph, 1888, pp. 217-218, pl. 8, figs. 72-73, pl. 9,
figs. 74-76); France

platypygos, new species

Group II. b. 1.

- abyssorum (McIntosh, 1885, pp. 250-251, pl. 36, figs. 20-21, pl. 18A, fig. 10, textfigs. 16-18); off Peru
- acutifrons (McIntosh, 1903, pp. 146-147, pl. 12, figs. 29-32); north Atlantic Ocean
- antarctica Monro, 1930, p. 138, fig. 51a-h; Palmer Archipelago near assimilis (McIntosh, 1903, pp. 158-159, pl. 13, figs. 42-43); eastern Canada (impatiens)
- atlantica (Kinberg, 1865, p. 568); off La Plata, Argentina, see also Kinberg, 1910, p. 47, pl. 19, fig. 43a-g, and Hartman, 1948, pp. 90-91, pl. 13, figs. 1-2
- bassi Hartman, 1944, pp. 150-151, pl. 10, figs. 217-223; Gulf of Mexico
- bicirrata Treadwell, 1929, pp. 1-3, figs. 1-7; Washington
- bifurcata (McIntosh, 1885, pp. 241-243, pl. 36, figs. 10-12, pl. 17A, fig. 16, textfigs. 7-8); Japan
- borealis (Kinberg, 1865, p. 568); Norway, see also Kinberg, 1910, p. 47, pl. 19, fig. 41a-g (fragilis)
- brevipes (McIntosh, 1903, pp. 147-149, pl. 12, figs. 33-34, textfig. 3); Cape Finisterre
- contorta Quatrefages, 1865, pp. 359-360, pl. 10, figs. 6-11; France (impatiens)
- crassidentata, new species
- debilis (Grube, 1878, pp. 170-171, pl. 8, fig. 5-5b); Philippine Islands
- ehlersii (McIntosh, 1885, p. 254); Greenland
- ehlersii tenuisetis (McIntosh, 1885, pp. 253-254, pl. 37, fig. 9, pl. 18A, fig. 12, textfigs. 20-22); northeast America
- flabellicola (Fage, 1936, pp. 943-944, fig. 2a-d); Morocco
- fragilis (O.F. Müller, 1776, p. 216); Denmark, see Fauvel, 1923, p. 430, fig. 171k-1
- heterochaeta (Schmarda, 1861, p. 116, 7 textfigs); Chile
- hibernica (McIntosh, 1903, p. 561); Ireland, see also McIntosh, 1910, pp. 383-385, pl. 62, fig. 3-3a, pl. 74, fig. 1-1a, pl. 82, fig. 5-5d (impatiens)

- jacksoni (Kinberg, 1865, p. 569); Port Jackson, Australia, see also
Kinberg, 1910, p. 47, pl. 18, fig. 34a-g, and Augener, 1922, pp. 29-
30, fig. 7-7a
- longensis Hartman, 1960, pp. 103-104; southern California
- lynnei Knox, 1951, p. 69, figs. 13-17; Banks Peninsula, New Zealand
- magnanuchalata Hartmann-Schroeder, 1959, pp. 159-160, figs. 146-152;
El Salvador
- minima Hartman, 1944, pp. 155-156, pl. 14, figs. 308-314; southern
California
- minuta (Théel, 1879, pp. 42-44, pl. 4, figs. 57-59); Arctic Ocean
- moorei Hartman, 1942, pp. 116-118, fig. 12a-b and g; southern California
- neozealandiae (McIntosh, 1885, pp. 248-250, pl. 36, figs. 18-19, pl. 18A,
figs. 5-9, textfigs. 14-15); New Zealand
- pettigrewi (McIntosh, 1885, pp. 239-241, pl. 36, figs. 7-9, pl. 17A,
figs. 11-15, textfigs. 4-6); South Africa
- platylobata, new species
- punctata (McIntosh, 1885, pp. 252-253, pl. 30, fig. 9, pl. 18A, fig. 11,
textfig. 19); off New York
- rovignensis (Fauvel, 1940, pp. 13-16, fig. 2a-d); Adriatic Sea
- similabris Treadwell, 1926, pp. 5-6, figs. 6-10; Alaska, see also
Hartman, 1956, p. 287
- tenuis (Verrill, 1873, p. 594); New England, see also Hartman, 1942, p.
- uncinigera Hartmann-Schroeder, 1959, pp. 161-163, figs. 153-158;
El Salvador
- zonata (Johnson, 1901, pp. 408-409, pl. 9, figs. 93-100); Washington
- Group II. b. 2.
- abyssicola (Ushakov, 1950, p. 195, fig. 27); Okhotsk Sea
- acicularum Webster and Benedict, 1887, p. 725, pl. 4, figs. 55-59;
New England
- africana (Augener, 1918, pp. 367-268, pl. 7, figs. 261-262, textfig. 42a-
west Africa
- araukensis Hartmann-Schroeder, 1962, pp. 117-119, figs. 120-123; Chile

- bifilaris (Ehlers, 1901, pp. 139-141, pl. 18, figs. 1-10); Chile
- bifrons (Kinberg, 1865, p. 567); Patagonia, see also Kinberg, 1910, p. 46, pl. 18, fig. 31a-g, and Hartman, 1948, pp. 95-96, pl. 14, figs. 10-13
- brevicirra (Schmarda, 1861, p. 117, 4 textfigs); Australia, see also Ehlers, 1905, pp. 35-36
- candida Treadwell, 1921, pp. 96-97, pl. 8, figs. 7-9, textfigs. 344-350; West Indies, see also Hartman, 1956, p. 288
- cavifrons (Grube, 1867, pp. 13-14, pl. 1, fig. 5); South Africa, see also Grube, 1869, p. 175
- chilensis (Kinberg, 1865, p. 569); Chile, see also Kinberg, 1910, p. 48, pl. 18, fig. 37, and Hartman, 1948, pp. 91-92
- dentata Hartmann-Schroeder, 1965, pp. 130-132, figs. 58-61; Hawaii
- duebeni (Kinberg, 1865, p. 570); Mozambique, see also Hartman, 1948, p. 96
- emandibulata Pillai, 1961, p. 20, fig. 6j-m, fig. 7a-f; Ceylon
- erecta Moore, 1904, pp. 490-492, pl. 37, figs. 19-22, pl. 38, figs. 23-25; southern California, see also Hartman, 1944, pp. 149-150
- frauenfeldi (Grube, 1879, p. 94); Red Sea, see also Grube, 1868, pp. 634-635, pl. 7, fig. 3
- funchalensis (Kinberg, 1865, p. 569); Madeira, see also Fauvel, 1923, p. 434, fig. 172o-r
- gulielmi (Benham, 1915, pp. 227-230, pl. 42, figs. 81-88, pl. 43, figs. 89-94); Bass Strait, Australia
- hartmani Day, 1953, pp. 437-438, fig. 6e-m; South Africa
- havaica (Kinberg, 1865, pp. 569-570); Hawaii, see also Kinberg, 1910, p. 48, pl. 19, fig. 39a-g, and Hartman, 1948, pp. 88-89, pl. 13, figs. 6-7, pl. 14, fig. 8 (sarsi)
- heteropoda (Marenzeller, 1879, p. 138, pl. 5, fig. 4-4a, pl. 6, fig. 1-1a); southern Japan
- heteropoda difficilis Day, 1962, p. 646; South Africa, see also Day, 1960, pp. 360-361, fig. 12c-d, and Day, 1963, p. 410
- impatiens (Claparède, 1868, p. 455, pl. 9, fig. 2); France, see Fauvel, 1923, pp. 429-430, fig. 171a-i

- indica (Kinberg, 1865, p. 569); Bangka Strait, see also Kinberg, 1910, p. 48, pl. 19, fig. 40a-g, and Hartman, 1948, pp. 94-95
- labrofimbriata (Saint-Joseph, 1888, pp. 214-217, pl. 8, figs. 65-71);
France
- lobata Hartmann-Schroeder, 1960, pp. 28-30, figs. 61-66; Peru
- lucida (Grube, 1877, p. 50); China
- mando (Crossland, 1924, pp. 41-44, textfigs. 53-56); Bay of Suez
- monroi, new species
- oceanica (Kinberg, 1865, p. 570); La Plata, Argentina, see also Hartman, 1948, p. 92, pl. 14, figs. 4-6
- ocellata (Grube, 1878, pp. 169-170, pl. 8, fig. 6-6a); Philippine Islands
- parvapedata (Treadwell, 1901, p. 198, figs. 38-40); Culebra, Panama, see also Hartman, 1942, pp. 118-119
- penascensis, new species
- polydesma (Southern, 1921, pp. 622-624, pl. 26, fig. 15a-1, textfigs. 14a-c); Chilka Lake, India
- pseudopolydesma Pillai, 1961, p. 18, fig. 6a-h; Ceylon
- sarsi (Kinberg, 1865, p. 569); Ecuador, see also Kinberg, 1910, p. 48, pl. 19, fig. 38a-g, and Hartman, 1948, pp. 88-89, pl. 13, figs. 6-7 pl. 14, fig. 8
- simplicis Hartman, 1959, p. 336; western Mexico and Galapagos Islands, see also Hartman, 1944, pp. 152-153, pl. 10, figs. 224-229
- sulcaticeps (Benham, 1927, pp. 91-94, pl. 2, figs. 42-52); New Zealand
- tetraura (Schmarda, 1861, p. 117, 6 textfigs.); South Africa, see also Hartman, 1944, pp. 147-149, pl. 8, figs. 175, 190-191, pl. 9, figs. 192-195
- treadwelli Hartman, 1956, p. 288; Puerto Rico, see also Treadwell, 1901, pp. 198-199, figs. 42-44, and Hartman, 1942, pp. 119-120, figs. 11h and 14d-e

Group II. b. 3.

- ater Bidentkap, 1907, p. 18, pl. 2, figs. 14-15; Norway
- brasiliensis (Grube, 1857, p. 159); Brazil

breviceps (Ehlers, 1868, pp. 388-389); Gulf of Naples (impatiens)
dayi (Silva, 1965, pp. 546-548, fig. 5a-1); Ceylon
futilis (Kinberg, 1865, p. 568); North Sea (latreilli)
laurentianus (Grube, 1863, pp. 40-41, pl. 4, fig. 3a); Mediterranean Sea
(impatiens)
levinseni Bidentkap, 1907, pp. 25-26, pl. 1, figs. 1-5; Norway
nasuta Verrill, 1900, p. 651; Bermuda
singularisetis Treadwell, 1931, p. 1, figs. 1-3; California (zonata)
testudinum (Augener, 1922, p. 46); Florida
trigonocephalus (Schmarda, 1861, p. 118, 6 textfigs.); Ceylon
vincentis (Grube, 1879, p. 94); Australia

Group III.

cluthensis Clark, 1953, pp. 945-949, fig. 1a-g; Scotland
janeirensis (Augener, 1934, pp. 388-389, fig. 28a-c); Brazil, see also
Hansen, 1881, p. 8, pl. 2, figs. 14-18
pseudobifilaris (Fauvel, 1932, pp. 154-156, pl. 6, figs. 7-13, textfig.
22a-d); Burma
simplex (Southern, 1921, pp. 625-626, pl. 26, fig. 16a-m, textfig. 15a-b);
Chilka Lake, India

Group IV

bilabiata (Treadwell, 1901, p. 199, figs. 45-46); Puerto Rico, see also
Hartman, 1942, p. 120
robusta (Ehlers, 1887, pp. 104-105, pl. 31, figs. 1-6); Florida and Cuba
vasco Quatrefages, 1865, p. 364; France (coccinea)

APPENDIX D.

Species of Ninoe with assignment to groups

The genus is here divided in two groups:

- I. Branchiae present only as single filaments or cirri
- II. Branchiae with two or more filaments or cirri

The list includes all species named in Hartman (1959, 1965a) and species published after 1965. Species that have been referred to other families or characterized as "indeterminable" or "questionable" in Hartman (1959, 1965a) have been excluded from the list. References are given to original descriptions, revisions of type material and in some instances to standard reference works.

Group I.

- branchiata (Treadwell, 1921, pp. 94-95, pl. 8, figs. 5-6, textfigs. 333-343); West Indies, see also Hartman, 1956, p. 287
- fusca Moore, 1911, pp. 285-288, pl. 19, figs. 110-118; southern California
- gracilis (Ehlers, 1868, pp. 393-395, pl. 17, figs. 7-10a); Italy
- lagosiana (Augener, 1918, pp. 371-374, pl. 5, figs. 123-127, pl. 6, fig. 213, textfig. 44); west Africa (papillifera)
- luti (Berkeley and Berkeley, 1945, pp. 332-333, fig. 6); western Canada
- moorei Rioja, 1941, pp. 718-722, pl. 6, figs. 4-9, pl. 7, figs. 1-8; western Mexico
- notocirrata (Fauvel, 1932, pp. 156-158, pl. 7, figs. 1-8, textfig. 23a-India
- papillifera (Fauvel, 1918, p. 508, fig. 4a-h); Madagascar, see also Fauvel, 1919, pp. 395-396, pl. 15, figs. 9-16
- simplicata Moore, 1905, pp. 547-549, pl. 35, fig. 30, pl. 36, figs. 39-44; Alaska

Group II

- branchiata (Fauvel, 1943, pp. 22-24, fig. 2a-g); western Mexico,
homonym (dolichognatha)
- brasiliensis Kinberg, 1865, p. 567; Brazil, see also Kinberg, 1910, p. 46,
pl. 18, fig. 33a-f
- chilensis Kinberg, 1865, p. 566; Chile, see also Kinberg, 1910, p. 45,
pl. 18, fig. 32a-f
- digitatissima Augener, 1918, pp. 369-371, pl. 5, figs. 117-121, textfig.
43; west Africa
- dolichognatha Rioja, 1941, pp. 722-723, pl. 7, figs. 9-15, pl. 8, figs.
1-5; western Mexico
- falklandica Monro, 1936, pp. 156-158, fig. 28a-1; South Georgia
- gayheadia Hartman, 1965, pp. 121-122, pl. 21, figs a-h; off New England
- gemmea Moore, 1911, pp. 283-285, pl. 19, figs. 101-109; California
- kinbergi Ehlers, 1887, pp. 105-106, pl. 32, figs. 1-9; southern Florida
- leptognatha Ehlers, 1900, p. 215; southern South America, see also
Ehlers, 1901, pp. 141-142, pl. 17, figs. 11-20
- nigripes Verrill, 1873, p. 595; Massachusetts, see also Hartman, 1942,
pp. 53-54, figs. 95-97
- nigripes gracilis Hartman, 1951, pp. 61-63, pl. 16, figs. 1-2;
Louisiana
- oculata Kinberg, 1865, p. 567; Brazil, see also Kinberg, 1910, p. 46,
pl. 18, fig. 33B*
- palmata Moore, 1903, pp. 456-457, pl. 26, figs. 68-71; Sendai Bay, Japan
- pulchra Wesenberg-Lund, 1949, pp. 319-321, figs. 32-33; Gulf of Iran
- Branchial structure unknown:
- spinosa Rioja, 1941, p. 724, pl. 8, figs. 6-9; western Mexico

APPENDIX E.

Species of Iphitime with reference to original description, host and type locality

cuenoti Fauvel, 1914, pp. 34-37, fig. 1a-g; Arcachon, France, on hydrozoan on the back of Maja squinado, see also Fage and Legendre, 1934, pp. 302-304, figs. 3-4

doederleini Marenzeller, 1902, pp. 579-580, pl. 3, figs. 14-14D, southern Japan, in branchial cavity of Macrocheira kaempferi

loxorhynchi Hartman, 1952, pp. 11-12, pl. 3, figs. 1-6; southern California, in branchial cavity of Loxorhynchus grandis

paguri Fage and Legendre, 1934, pp. 299-305, figs. 1-2; Concarneau, France, on branchiae of Pagurus bernhardus

APPENDIX F.

Species of Arabella with assignment to groups

The genus is here divided in three groups:

- I. Maxilla I distally falcate
- II. Maxilla I distally dentate
- III. Distal end of maxilla I unknown

The list includes all species named in Hartman (1959, 1965a) and species published after 1965. Species that have been referred to other families or characterized as "indeterminable" or questionable" in Hartman (1959, 1965a) have been excluded from the list. Synonyms have been excluded only when the author that referred one species to another redescribed the types of both, or compared the type of one species with a well established one in the same area. Synonyms suggested by Hartman (1959, 1965a) are indicated in the list. References are given to the original descriptions, important revisions and the type area

Group I.

capensis (McIntosh, 1885, pp. 236-237, pl. 37, figs. 3-4, pl. 18A, fig. 15); Cape of Good Hope (iricolor)

cincta Hartmann-Schroeder, 1962, pp. 126-128, figs. 143-147; Peru

coeca Fauvel, 1940, pp. 18-21, fig. 4a-k; Adriatic Sea

iricolor (Montagu, 1804, p. 82); England, see also McIntosh, 1910, pp. 395-400, pl. 54, fig. 4, pl. 62, fig. 8-8c, pl. 74, fig. 5-5c, pl. 83, fig. 2-2a

iricolor caerulea (Schmarda, 1861, p. 115, pl. 32, fig. 253, 5 textfigs.); Cape of Good Hope and Chile, see also Hartmann-Schroeder, 1962, pp. 125-126, figs. 139-142

lagunae Chamberlin, 1919, p. 12, southern California (iricolor)

longipedata Monro, 1931, pp. 23-25, fig. 13a-c; Great Barrier Reef, Australia

maculifera (Grube, 1879, p. 107); northern Japan

- maculosa Verrill, 1900, p. 651; Bermuda (iricolor)
- mimetica Chamberlin, 1919, pp. 12-13; southern California (?iricolor)
- multidentata (Ehlers, 1887, pp. 112-113, pl. 34, figs. 8-9, pl. 35, figs. 1-4); off Florida (iricolor)
- munda Chamberlin, 1919, pp. 258-259; California (semimaculata)
- mutans (Chamberlin, 1919, pp. 330-332, pl. 61, figs. 1-9, pl. 62, fig. 1. Easter Island
- novocrinita Crossland, 1924, pp. 71-75, textfigs. 89-95; Maldive Islands and Zanzibar (?mutans)
- novocrinita atlantica Crossland, 1924, pp. 78-80, textfigs 99-102, 105; Cape Verde Islands (? mutans var.)
- novocrinita logani Crossland, 1924, pp. 75-78, textfigs. 96-98; Suez, see also Silva, 1961, p. 182 (?mutans)
- renierii (Grube, 1877, p. 50); China
- semimaculata (Moore, 1911, pp. 295-297, pl. 28, figs. 143-149); California
- setosa Treadwell, 1921, pp. 113-114, pl. 9, figs. 10-11, textfigs. 421-424; West Indies (?iricolor), see also Hartman, 1956, p. 288
- Group II.
- geniculata (Claparède, 1868, pp. 459-460, pl. 6, fig. 6); Gulf of Naples see also Fauvel, 1923, pp. 439-440, fig. 175i-1
- iridescens Treadwell, 1906, p. 1171, figs. 59-61; Molokai Island, Hawaii see also Hartman, 1942, pp. 124-125, fig. 13d
- novocrinita asymmetrica Crossland, 1924, pp. 80-83, textfigs. 103-104; Cape Verde Islands (?mutans var.)
- obscura (Willey, 1905, pp. 285-286, pl. 5, figs. 108-112); Ceylon (?mutans)

Group III.

capensis (Kinberg, 1865, p. 573); South Africa, see also Kinberg, 1910,
p. 49, pl. 19, fig. 42

zonata (Moore, 1903, p. 455, pl. 26, figs. 66-67); Totomi Sea, Japan,
see also Hartman, 1942, p. 125

APPENDIX G.

Species of Drilonereis with assignment to groups and subdivisions

Groups:

- I. Maxilla I proximally dentate
- II. Maxilla I proximally smooth
- III. Maxilla I and mandibles unknown

Subdivisions of groups I and II:

- a. mandibles present
- b. mandibles absent
- c. presence or absence of mandibles not known

The list includes all species named in Hartman (1959, 1965a) and species published after 1965. Species that have been referred to other families or characterized as "indeterminable" or "questionable" in Hartman (1959, 1965a) have been excluded from the list. Synonyms have been excluded only when the author that referred one species to another redescribed the types of both, or compared the type of one species with a well established one in the same area. Synonyms suggested by Hartman (1959, 1965a) are indicated in the list. References are given to the original descriptions, important revisions and the type area

Group I. a.

annulata (Ehlers, 1908, pp. 99-100, pl. 13, figs. 14-17); east coast of Africa

canadensis McIntosh, 1903, pp. 161-164, pl. 13, figs. 44-46, textfig. 9 eastern Canada

chilensis Hartmann-Schroeder, 1965, pp. 188-190, figs. 169-172; Chile

cylindrica Hartman, 1951, pp. 64-65, pl. 16, figs. 3-5; Florida and North Carolina

falcata Moore, 1911, pp. 288-299, pl. 20, figs. 150-154; California

falcata minor Hartman, 1965, p. 123, pl. 19, fig. b; off New England
longa Webster, 1879, pp. 240-241, pl. 7, figs. 84-88; Virginia
longa elisabethae McIntosh, 1903, p. 562; Scotland, see also McIntosh,
1910, pp. 393-394, pl. 62, fig. 7-7b, pl. 74, fig. 4, pl. 83, fig.
1-1a (filum)
macrocephala Saint-Joseph, 1888, pp. 225-227, pl. 9, figs. 86-89; France
(filum)
tenuis (Ehlers, 1900, p. 216); Strait of Magellan, see also Ehlers, 1901,
pp. 145-146, pl. 19, figs. 7-10

Group I. b.

australiensis Augener, 1922, pp. 28-29, textfig. 7; Cape York, Northern
Australia
logani Crossland, 1924, pp. 64-70, textfigs. 80-88; eastern Africa
mexicana, new species
robustus (Moore, 1903, pp. 454-455, pl. 26, figs. 64-65); Japan, see also
Izuka, 1912, pp. 144-145, and Imajima and Hartman, 1964, p. 266
tridentata Day, 1965, pp. 20-21, fig. 1g-k; Red Sea

Group I. c.

debilis (Ehlers, 1887, p. 113, pl. 35, figs. 5-8); Florida

Group II. a.

filum (Claparède, 1868, pp. 454-455, pl. 9, fig. 1); Mediterranean Sea,
see also Claparède, 1870, pp. 399-400, pl. 2, fig. 4, and comment above
magna Webster and Benedict, 1887, pp. 725-726, pl. 4, figs. 60-63; Maine
maorica (Augener, 1924, pp. 432-433); Tauranga, New Zealand
spatula (Treadwell, 1911, pp. 6-7, figs. 12-14); Florida, see also
Hartman, 1956, p. 290

Group II. b.

benedicti Pettibone, 1957, pp. 177-179, fig. 1a-g; Florida
caulleryi Pettibone, 1957, pp. 179-181, fig. 2a-o; Massachusetts to
Virginia

forcipes (Hartman, 1944, pp. 180-182, pl. 13, figs. 291-296); off western Mexico

lumbricus Treadwell, 1922, pp. 161-162, pl. 7, figs. 13-15, pl. 8, fig.

10, textfigs. 53-55; Fiji Islands, see also Hartman, 1956, p. 289

major Crossland, 1924, pp. 57-64, textfigs. 73-79; Suez (?lumbricus)

monroi Day, 1960, pp. 365-367, fig. 13f-i; South Africa

nuda Moore, 1909, pp. 254-256, pl. 18, figs. 21-23; California

parasiticus (Caullery, 1914, pp. 490-493, figs. 1-4); East Indies

paucidentata Treadwell, 1922, p. 162, pl. 7, figs. 16-17, pl. 8, fig. 11

textfig. 56; Fiji Islands, see also Hartman, 1956, pp. 289-290

(planiceps)

planiceps (Grube, 1878, pp. 174-175, pl. 8, fig. 4); Philippine Islands

Group II. c.

heterognatha Grube, 1879, p. 101; Brazil

intermedia Grube, 1879, pp. 100-101; Brazil

Group III.

norvegica Sømme, 1927, pp. 104-106, figs. 1-3; southern Norway

quadricuspis Grube, 1879, p. 100; Brazil

APPENDIX H.

Species of Biborin, Drilognathus, Haematocleptes, Labrorostratus, Notocirrus and Oligognathus with references to the original descriptions, important revisions and type area

The list includes all species named in Hartman (1959, 1965a) and species published after 1965. Species that have been referred to other families or characterized as "indeterminable" or "questionable" in Hartman (1959, 1965a) have been excluded from the list.

Genus Biborin Chamberlin, 1919

ecbola Chamberlin, 1919, p. 13; southern California

Genus Drilognathus Day, 1960

capensis Day, 1960, p. 370, fig. 14e-i; South Africa

Genus Haematocleptes Wirén, 1886

terebellides Wirén, 1886, pp. 1-10, pl. 1, figs. 1-6, pl. 2, figs. 7-10;
Sweden

Genus Labrorostratus Saint-Joseph, 1888

parasiticus Saint-Joseph, 1888, pp. 221-224, pl. 9, figs. 77-85; France

Genus Notocirrus Schmarda, 1861

australis Day, 1960, pp. 367-370, fig. 14a-d; South Africa

attenuatus (Treadwell, 1906, p. 1172, fig. 62); California

californiensis Hartman, 1944, pp. 175-176, pl. 13, figs. 285-290;
southern California

chilensis Schmarda, 1861, p. 119, 6 textfigs.; Chile

japonicus (Okuda, 1939, pp. 237-238, fig. 10a-i); Japan, see also Imajima
and Hartman, 1964, pp. 266-267

lorum Ehlers, 1897, pp. 78-80, pl. 5, figs. 125-128; Strait of Magellan

scoticus McIntosh, 1869, pp. 417-418; Irish Sea, see also Day, 1960,

p. 368

spiniferus (Moore, 1906, pp. 501-502, pl. 19, figs. 1-7); Massachusetts,
see also Pettibone, 1957, p. 113

virginis (Kinberg, 1865, p. 573); Argentina, see also Kinberg, 1910,
pp. 49-50, pl. 19, fig. 44, and Hartman, 1948, pp. 97-98, pl. 13,
figs. 8-11

Genus Oligognathus Spengel, 1882

bonelliae Spengel, 1882, pp. 15-52, pls. 2-4; Gulf of Naples

parasiticus Cerruti, 1909, pp. 1-4, 2 figs.; Gulf of Naples

APPENDIX I.

Species of Lysaretidae with references to original descriptions, important revisions and type areas

Genus Halla Costa, 1844

okudai Imajima, 1967, p. 437; Kojima Bay, Japan, see also Okuda, 1933, pp. 243-247, pl. 12a-p

parthenopeia (delle Chiaje, 1828, p. 175); Mediterranean Sea, see also Fauvel, 1923, pp. 426-427, fig. 169a-h

Genus Lysarete Kinberg, 1865

australiensis Benham, 1915, pp. 235-237, pl. 43, figs. 103-109, pl. 44, figs. 110-112; Victoria, Australia

brasiliensis Kinberg, 1865, p. 570; Brazil, see also Kinberg, 1910, p. 49, pl. 18, fig. 30a-g and Ehlers, 1887, pp. 107-108, pl. 33, figs. 1-8

Genus Oenone Savigny, 1818

fulgida (Savigny, 1818, p. 326); Red Sea, see also Fauvel, 1917, pp. 240-254, pl. 5, figs. 52-55

TABLE 1.

Material of Eunicidae from western Mexico

The table gives measurements on part of the material; the total number of specimens of each species is found in the systematic account. The table is given in a standard format for all species in the family; dash in the columns indicates that the measurement does not apply. The numbers given in columns 3 to 6 are numbers of setigers; the two peristomial segments have not been counted. A question mark in columns 3 to 6 means that the specimen was too fragmentary to give the measurement; the total number of setigers present is then given in column 6.

The columns are:

1. Station number or location.
2. Length in mm, measured from the tip of the palpi to the posterior margin of the tenth setiger.
3. The number of the setiger, counted from the anterior end, on which the first branchia occurred.
4. The number of the setiger, counted from the anterior end, on which the last branchia occurred.
5. The number of the setiger, counted from the anterior end, on which the first subacicular hook occurred.
6. This gives the total number of setigers present in specimens that were fragmentary.

1.	2.	3.	4.	5.	6.
<u>Eunice afra</u>					
260-34	3.6	19	-	33	
634-37	4.7	19	-	36	
	5.1	19	-	36	
	5.4	20	-	38	
	8.0	20	-	35	
1045-40	8.4	19	-	39	
	8.5	19	-	38	

1.	2.	3.	4.	5.	6.
1049-40	4.2	19	-	32	
1079-40	6.6	19	-	40	
	6.8	19	-	36	
	6.9	19	-	39	
	9.0	20	-	41	
	9.0	20	-	42	
	9.2	20	-	39	
1727-49	6.6	20	-	41	
	7.4	19	-	42	
	8.5	19	-	38	
Point Lobos	6.5	19	-	39	
Puerto Refugio	5.2	19	-	35	
	6.2	20	-	38	
Dawson 1946-47 sta 85	3.6	20	-	31	
K 111	5.8	18	-	39	
Puerto Penasco	6.5	21	-	35	
Tastiota	6.3	17	-	39	
<u>Eunice americana</u>					
1010-39	5.4	3	31	25	
	5.8	3	?	25	26
	6.7	3	31	25	
	7.0	3	?	?	27
	7.2	3	?	26	31
	7.3	3	34	27	
	7.4	3	32	27	
	7.5	3	?	24	27
	7.6	3	?	25	28
	7.6	3	34	28	
	8.1	3	?	?	22
	8.5	3	?	27	30
	8.6	3	33	27	

<u>1.</u>	<u>2.</u>	<u>3.</u>	<u>4.</u>	<u>5.</u>	<u>6.</u>
1247-41	3.9	3	22	19	
	7.0	3	34	28	
1254-41	7.3	3	?	24	30
1693-49	6.6	3	32	27	
1711-49	6.4	3	32	22	
<u>Eunice antennata</u>					
127-33	4.9	6	-	24	
	6.0	6	-	24	
	6.2	5	-	23	
259-34	3.6	4	-	17	
498-36	4.1	4	-	19	
	5.7	5	-	22	
503-36	2.8	4	-	20	
	3.0	4	-	21	
	3.0	4	-	20	
	3.8	4	-	20	
	3.8	4	-	22	
	3.8	5	-	21	
	3.9	5	-	22	
	4.0	5	-	22	
	4.0	5	-	23	
	4.4	5	-	22	
	4.5	4	-	19	
	4.9	4	-	21	
525-36	4.5	5	-	20	
	4.8	5	-	19	
	6.0	4	-	21	
	6.3	5	-	22	
	6.5	5	-	22	
530-36	4.9	5	-	23	
549-36	5.3	5	-	22	

1.	2.	3.	4.	5.	6.
	7.2	5	-	23	
563-36	4.1	5	-	22	
	4.6	5	-	21	
	7.3	5	-	21	
585-36	4.8	4	-	21	
596-36	5.9	5	-	23	
	6.0	5	-	22	
608-36	7.7	5	-	25	
633-37	3.6	4	-	19	
	3.8	5	-	21	
	4.0	4	-	19	
	5.2	5	-	19	
	5.7	5	-	24	
	5.7	5	-	20	
	6.6	5	-	22	
	7.0	5	-	24	
	8.5	5	-	24	
639-37	8.0	5	-	21	
643-37	4.9	4	-	21	
	5.1	5	-	22	
	5.3	5	-	21	
	5.5	5	-	20	
	6.0	5	-	21	
	6.4	5	-	21	
	7.1	5	-	22	
662-37	5.6	5	-	21	
	5.9	5	-	21	
	6.2	5	-	23	
	6.5	5	-	19	
	6.6	5	-	22	
	7.6	5	-	21	

1.	2.	3.	4.	5.	6.
683-37	3.8	6	-	21	
	4.7	5	-	25	
	4.8	5	-	22	
	9.9	5	-	27	
708-37	4.5	5	-	21	
870-38	5.8	4	-	19	
928-39	6.8	5	-	21	
970-39	6.4	6	-	?	22
971-39	7.2	6	-	21	
	7.8	6	-	20	
1042-40	7.0	5	-	25	
	7.6	6	-	22	
	8.5	6	-	23	
	8.5	6	-	23	
1045-40	4.5	5	-	23	
	5.0	5	-	25	
	6.0	5	-	26	
	6.1	5	-	25	
	6.6	5	-	24	
	6.7	5	-	23	
	7.0	6	-	24	
	7.0	6	-	24	
	7.2	5	-	27	
	7.3	5	-	28	
	7.4	5	-	25	
	7.4	5	-	25	
	7.5	6	-	24	
	7.7	5	-	28	
	7.9	5	-	25	
	7.9	6	-	28	
8.4	6	-	27		

1.	2.	3.	4.	5.	6.
	8.5	6	-	28	
	8.6	5	-	24	
1049-40	4.6	5	-	20	
	5.1	5	-	21	
	5.5	5	-	25	
1072-40	7.6	5	-	25	
1079-40	5.2	5	-	20	
	5.9	6	-	23	
1092-40	6.3	5	-	22	
	9.3	5	-	26	
1093-40	4.2	5	-	18	
1101-40	4.3	5	-	19	
	4.4	5	-	19	
	4.8	5	-	20	
	6.3	5	-	23	
	7.0	5	-	20	
	7.1	5	-	21	
	8.0	5	-	23	
	9.4	5	-	23	
	10.0	5	-	24	
1103-40	3.7	5	-	19	
	6.9	5	-	23	
1105-40	5.2	5	-	20	
1111-40	6.0	5	-	21	
1517-46	6.1	5	-	22	
1718-49	8.0	5	-	24	
1736-49	4.7	5	-	22	
	5.3	5	-	23	
	5.5	4	-	23	
	6.6	4	-	23	
1737-49	4.6	5	-	20	
	5.5	5	-	20	

1.	2.	3.	4.	5.	6.
	6.3	5	-	24	
1749-49	6.9	4	-	23	
1920-49	2.2	5	-	22	
1927-49	2.1	4	-	22	
2022-51	7.7	6	-	29	
	7.8	6	-	29	
2024-51	5.5	6	-	27	
	6.0	6	-	24	
2064-51	5.4	6	-	24	
2596-54	3.5	6	-	20	
	3.6	6	-	20	
	3.7	6	-	21	
	3.7	6	-	21	
	3.8	6	-	21	
	4.0	6	-	21	
	4.0	6	-	21	
	4.4	6	-	23	
	4.7	6	-	20	
	5.5	6	-	20	
Pulmo Reef	4.8	6	-	22	
Coronado Island	5.5	5	-	23	
Concepcion Bay	5.3	6	-	23	
Dawson 1946-47 sta. 53	1.7	5	-	16	
	2.4	5	-	20	
	3.9	5	-	24	
	3.9	5	-	18	
	4.2	5	-	21	
	5.4	5	-	20	
Dawson 1946-47 sta. 58	3.4	4	-	20	
Dawson 1946-47 sta. 67	4.9	5	-	21	
Dawson 1946-47 sta. 68	6.1	4	-	22	
Dawson 1946-47 sta. 94	2.6	5	-	20	

1.	2.	3.	4.	5.	6.
Puerto Penasco	4.0	5	-	23	
H50-65	2.6	4	-	17	
	2.9	4	-	16	
	4.2	5	-	20	
San Ignacio Lagoon	6.2	4	-	22	
	7.0	5	-	23	
San Ignacio Lagoon	4.5	4	-	20	
	5.2	5	-	21	
	7.0	5	-	22	
	7.5	5	-	23	
	7.6	4	-	23	
K 111	3.9	6	-	21	
K 112	4.3	5	-	21	
	4.7	5	-	21	
K 125	4.4	5	-	20	
	4.7	5	-	22	
K 130	3.8	5	-	20	
Puerto Penasco	2.9	5	-	20	
	4.3	5	-	20	
	5.2	5	-	21	
	5.4	5	-	21	
<u>Eunice antennata aedificatrix</u>					
279-34	7.5	6	-	27	
287-34	4.0	6	-	18	
	4.5	6	-	19	
1596-49	5.5	6	-	27	
1706-49	8.5	6	-	25	
1912-49	2.4	6	-	15	
	5.7	7	-	29	
	6.1	6	-	29	
	7.4	6	-	25	

1.	2.	3.	4.	5.	6.
	7.5	6	-	30	
	7.6	6	-	27	
	8.0	7	-	40	
1915-49	5.5	6	-	26	
	7.0	7	-	35	
1923-49	3.1	7	-	20	
	5.7	7	-	21	
	5.7	7	-	21	
	6.6	6	-	30	
1928-49	3.8	7	-	25	
1945-50	3.2	7	-	?	26
	4.0	7	-	31	
	4.3	7	-	25	
2066-51	6.3	6	-	25	
	7.7	6	-	29	
	7.9	6	-	34	
Dawson 1946-47 sta. 53	1.5	6	-	15	
	1.7	6	-	17	
	1.8	6	-	17	
	1.9	6	-	16	
	2.2	7	-	19	
	2.3	6	-	17	
	2.6	6	-	18	
	2.7	6	-	18	
	2.9	6	-	?	19
	3.0	6	-	16	
	3.0	6	-	18	
	3.4	6	-	20	
	3.5	6	-	20	
	5.1	6	-	26	
	6.0	6	-	27	
	6.5	6	-	27	

1.	2.	3.	4.	5.	6.
H50-32	8.0	7	-	29	
San Quintin Bay	4.4	7	-	22	
Cedros Island	2.3	6	-	18	
	5.7	7	-	25	
	6.3	7	-	31	
	6.5	7	-	27	
	7.1	6	-	28	
	8.2	7	-	34	
<u>Eunice aphroditois</u>					
530-36	9.5	6	-	20	
	12.5	6	-	23	
	13.0	6	-	35	
	17.0	6	-	31	
	22.0	6	-	45	
	25.0	6	-	40	
	28.0	6	-	43	
638-37	8.5	6	-	35	
662-37	4.2	5	-	15	
1045-40	8.3	5	-	24	
	10.0	5	-	25	
	11.3	5	-	23	
1084-40	10.5	6	-	?	29
	15.5	7	-	?	36
	16.0	7	-	45	
Mazatlan	21.0	7	-	54	
Pulmo Reef	9.5	7	-	30	
	10.0	7	-	29	
Punta Trinidad	4.2	5	-	14	
	6.2	5	-	22	

1.	2.	3.	4.	5.	6.
<u>Eunice biannulata</u>					
264-34	6.4	3	?	?	39
	6.5	3	?	?	36
	6.8	3	49	34	
1727-49	7.0	3	48	35	
	7.5	3	61	41	
	9.2	3	62	40	
1742-49	5.5	3	?	34	35
2024-51	9.2	3	?	37	39
Ensenada	7.4	3	50	40	
	10.0	3	72	45	
Todos Santos Bay	9.6	3	81	48	
<u>Eunice biannulata mexicana</u>					
264-34	5.5	3	?	26	38
277-34	7.5	3	37	31	
	7.7	3	38	28	
	8.0	3	39	29	
	8.4	3	?	?	20
491-36	5.6	3	?	25	27
498-36	4.0	3	?	?	21
513-36	5.2	3	36	30	
	7.8	3	40	31	
533-36	4.0	3	22	20	
	6.2	3	33	27	
	6.5	3	?	27	33
	8.4	3	?	30	39
549-36	4.0	3	26	24	
628-37	5.0	3	38	28	
633-37	6.2	3	39	29	
	5.6	3	38	25	
642-37	6.6	3	37	29	

1.	2.	3.	4.	5.	6.
675-37	5.5	3	28	27	
	8.5	3	39	31	
704-37	7.4	3	38	31	
745-37	6.4	3	36	26	
	6.5	3	34	27	
	7.3	3	?	28	32
	8.6	3	38	29	
747-37	5.5	3	35	27	
	7.0	3	26	25	
	7.1	3	33	26	
	8.0	3	?	27	33
	8.3	3	35	26	
	8.6	3	?	28	35
	9.0	3	?	29	34
	9.2	3	34	27	
	9.6	3	35	30	
	9.7	3	?	29	39
	10.0	3	43	30	
918-39	10.0	3	?	30	31
1051-40	12.0	3	?	?	29
1110-40	5.5	3	37	30	
1743-49	4.0	3	29	24	
1965-50	8.1	3	42	31	
Baja California	5.2	3	24	24	
Abreojos Point	13.0	3	48	32	
<u>Eunice filamentosa</u>					
1042-40	8.0	25	—	26	
1049-40	7.5	31	—	21	
	9.5	26	—	26	
1053-40	7.5	26	—	22	
	8.0	26	—	26	

<u>1.</u>	<u>2.</u>	<u>3.</u>	<u>4.</u>	<u>5.</u>	<u>6.</u>
1063-40	5.0	25	-	19	
	5.5	22	-	19	
1092-40	8.5	21	-	18	
2022-51	4.5	27	-	19	
	6.3	21	-	23	
	7.1	32	-	19	
Puerto Penasco	3.4	24	-	19	
<u>Eunice multipectinata</u>					
1246-41	12.6	6	-	34	
	17.7	6	-	40	
1252-41	12.0	7	-	34	
1253-41	5.1	7	-	28	
	13.1	6	-	36	
1256-41	19.0	6	-	38	
1261-41	14.3	6	-	31	
1264-41	8.5	6	-	31	
	13.2	7	-	41	
	14.3	7	-	42	
	16.1	6	-	37	
	18.6	7	-	34	
<u>Eunice mutilata</u>					
129-33	4.6	8	-	22	
1734-49	8.3	7	-	25	
	9.0	7	-	27	
	9.0	7	-	26	
	9.3	7	-	26	
	9.5	7	-	27	
	9.5	7	-	26	
	9.7	7	-	28	
	9.8	6	-	29	

1.	2.	3.	4.	5.	6.
	10.0	7	-	26	
	10.5	7	-	28	
	10.6	8	-	27	
	11.6	7	-	26	
	12.5	7	-	26	
Dawson 1946-47 sta. 85	4.9	7	-	24	

Eunice (Nigidion) cariboea

591-36	2.4	19	-	32	
633-37	3.4	no branchiae		30	110
634-37	2.7	17	-	31	
1561-46	2.7	no branchiae		23	42
	2.9	16	-	24	
	2.9	19	-	25	
	3.2	20	-	28	
	3.3	19	-	24	
	3.4	22	-	26	
	3.4	no branchiae		27	160
	3.4	no branchiae		32	92
	3.5	15	-	24	
	3.5	no branchiae		27	70
	3.6	17	-	23	
	3.6	no branchiae		27	73
	4.0	24	-	29	
1727-49	4.2	no branchiae		32	109
2022-51	3.0	no branchiae		31	50
2025-51	3.8	ca 100	-	33	
Puerto Penasco	2.6	ca 100	-	23	

Eunice reducta

970-39	13.5	4	-	34	
1727-49	12.9	4	-	42	

2.3	3	28	17
2.3	3	26	16
2.6	3	30	16
2.6	3	30	16

1.	2.	3.	4.	5.	6.
1734-49	10.9	4	-	37	
	12.5	4	-	45	
	13.0	4	-	45	

1.	2.	3.	4.	5.	6.
	3.0	3	30	17	
	3.2	3	29	17	
	3.3	3	31	20	
	3.5	3	25	16	
	3.7	3	32	18	
P 212-60	1.6	3	31	16	

Eunice vittatopsis

633-37	2.8	3	?	25	37
	3.0	3	54	32	
	3.2	3	?	28	50
	3.4	3	?	27	31
	3.5	3	55	28	
	3.5	3	?	30	43
	3.6	3	?	30	46
	3.7	3	53	31	
739-37	5.0	3	?	39	85
1101-40	2.4	3	43	30	
	3.4	3	45	30	
1103-40	2.5	3	?	26	43
Puerto Penasco	3.0	3	?	34	47

Lysidice ninetta

124-33	1.7	-	-	15	
260-34	2.0	-	-	12	
633-37	3.7	-	-	18	
1053-40	3.8	-	-	21	
1264-41	2.8	-	-	16	
1539-46	2.2	-	-	14	
	2.3	-	-	15	
	2.5	-	-	15	
1965-50	2.7	-	-	19	

1.	2.	3.	4.	5.	6.
	2.2	-	-	16	
Cabo San Lucas	2.2	-	-	18	
Guadalupe Island	3.8	-	-	20	
H50-32	3.6	-	-	16	
	5.1	-	-	21	
	5.6	-	-	19	
	6.1	-	-	21	
	6.2	-	-	20	
K 130	2.1	-	-	17	
Clipperton Island	1.8	-	-	15	
<u>Marphysa aenea</u>					
634-37	4.8	19	-	50	
Puerto Penasco	6.5	16	-	57	
<u>Marphysa sanguinea</u>					
1040-40	9.0	20	-	42	
1713-49	3.7	21	-	22	
1976-50	7.5	24	-	52	
	18.0	32	-	57	
2025-51	5.6	17	-	29	
	8.8	34	-	49	
	9.6	30	-	62	
	14.0	28	-	none	
2064-51	8.1	22	-	48	
	10.2	23	-	none	
	12.9	32	-	ca 200	
2066-51	13.1	28	-	90	
2603-54	5.4	24	-	35	
	6.7	28	-	37	
	8.0	24	-	26	
2623-54	6.0	19	-	35	
	7.6	25	-	71	

1.	2.	3.	4.	5.	6.
Ensenada	13.5	28	-	66	
El Mogote	7.5	22	-	37	
San Ignacio Lagoon	8.6	24	-	48	
San Ignacio Lagoon	12.4	28	-	63	
San Quintin Bay	5.4	21	-	41	
	7.0	24	-	56	
	10.1	28	-	none	
Puerto Penasco	7.4	27	-	30	
	7.8	26	-	53	
Tastiota	5.5	22	-	24	
	6.0	22	-	30	
	7.6	22	-	30	
	9.4	25	-	29	
	9.7	27	-	30	
	10.4	30	-	32	
	11.5	32	-	42	
<u>Palola paloloides</u>					
972-39	-	122	-	-	
	-	147	-	-	
1093-40	-	153	-	-	
1101-40	-	?	-	-	57
1112-40	-	172	-	-	
1257-41	-	115	-	-	
	-	?	-	-	102
1260-41	-	85	-	-	
1561-46	-	?	-	-	42
	-	?	-	-	92
1759-49	-	?	-	-	138
1915-49	-	?	-	-	40
	-	?	-	-	116
1923-49	-	?	-	-	165

1.	2.	3	4	5	6.
1928-49	-	88	-	-	
1944-50	-	107	-	-	
2022-51	-	109	-	-	
2603-54	-	102	-	-	
Ensenada	-	118	-	-	
H50-32	-	119	-	-	
	-	127	-	-	
KG 7	-	?	-	-	77
K 143	-	108	-	-	
Puerto Penasco	-	167	-	-	
<u>Palola siciliensis</u>					
127-33	-	?	-	-	97
500-36	-	?	-	-	62
501-36	-	170	-	-	
633-37	-	?	-	-	85
637-37	-	169	-	-	
739-37	-	172	-	-	
	-	176	-	-	
970-39	-	96	-	-	
1049-40	-	195	-	-	
	-	199	-	-	
	-	237	-	-	
	-	?	-	-	94
1053-40	-	106	-	-	
	-	182	-	-	
	-	201	-	-	
	-	?	-	-	175
	-	?	-	-	190
1077-40	-	204	-	-	
1091-40	-	233	-	-	
	-	?	-	-	139

1.	2.	3.	4.	5.	6.
1092-40	-	110	-	-	
	-	217	-	-	
	-	?	-	-	45
1110-40	-	156	-	-	
	-	?	-	-	43
	-	?	-	-	48
	-	?	-	-	56
1734-49	-	118	-	-	
	-	206	-	-	
2588-54	-	?	-	-	149
Pulmo Reef	-	92	-	-	
	-	113	-	-	
	-	123	-	-	
Puerto Refugio	-	174	-	-	
Punta Cholla	-	157	-	-	
	-	210	-	-	
Dawson 1946-47 sta. 53	-	97	-	-	
	-	?	-	-	47
	-	?	-	-	72
Dawson 1946-47 sta. 67	-	119	-	-	
K 116	-	204	-	-	
K 130	-	?	-	-	70
Puerto Penasco	-	186	-	-	
Tastiota	-	98	-	-	

TABLE 2.

Material of Lumbrineridae from western Mexico

The table gives a survey of the material on which the number of teeth on the maxillae and the distribution of composite and simple hooks have been measured; the total number of specimens of each species is found in the systematic account.

The columns are:

1. Station number or location.
2. to 5. Number of teeth on maxillae I to IV, from forceps to the smallest anterior piece. These columns are each divided in two parts marked l and r for the left and right side as seen from the dorsum.
6. Number of setigers with composite hooks.
7. The number of the setiger, counted from the anterior end, on which the first simple hooks occur.

1.	2.		3.		4.		5.		6.	7.
	l	r	l	r	l	r	l	r		
<u>Lumbrineris bicirrata</u>										
1010-39	1	1	2	2	1	1	1	1	-	8
1030-40	1	1	4	4	1	1	1	1	-	9
1253-41	1	1	5	5	1	1	1	1	-	8
1265-41	1	1	4	4	1	1	1	1	-	8
7231-61	1	1	4	4	1	1	1	1	-	7
<u>Lumbrineris cedroensis</u>										
7358-61	1	1	4	4	1	1	1	1	9	10
	1	1	4	4	1	1	1	1	10	11
P 137-61	1	1	4	4	1	1	1	1	10	11
	1	1	4	4	1	1	1	1	10	11

1.	2.		3.		4.		5.		6.	7
	l	r	l	r	l	r	l	r		
<u>Lumbrineris californiensis</u>										
1694-49	1	1	4	4	1	1	1	1	25	2
	1	1	4	4	1	1	1	1	25	2
	1	1	4	4	1	1	1	1	26	2
	1	1	4	4	1	1	1	1	25	2
	1	1	4	4	1	1	1	1	25	2
Gulf of California	1	1	4	4	1	1	1	1	26	2
<u>Lumbrineris cruzensis</u>										
964-39	1	1	4	4	1	1	1	1	16	1
1703-49	1	1	4	4	1	1	1	1	16	1
6179-59	1	1	4	4	1	1	1	1	15	1
	1	1	4	4	1	1	1	1	16	1
	1	1	4	4	1	1	1	1	16	1
	1	1	4	4	1	1	1	1	15	1
	1	1	4	4	1	1	1	1	16	1
K 126	1	1	4	4	1	1	1	1	16	1
<u>Lumbrineris erecta</u>										
616-37	1	1	4	4	2	2	1	1	-	2
634-37	1	1	4	4	2	2	1	1	-	2
724-37	1	1	5	5	2	2	1	1	-	2
728-37	1	1	5	5	2	2	1	1	-	2
1045-40	1	1	5	5	2	2	1	1	-	2
	1	1	5	5	2	2	1	1	-	2
1517-46	1	1	4	4	2	2	1	1	-	2
1596-47	1	1	4	4	2	2	1	1	-	2
	1	1	4	4	2	2	1	1	-	2
1597-47	1	1	5	5	2	2	1	1	-	2
	1	1	5	5	2	2	1	1	-	2
	1	1	4	4	2	2	1	1	-	2
	1	1	5	5	2	2	1	1	-	2

1.	2.		3.		4.		5.		6.	7.
	l	r	l	r	l	r	l	r		
	1	1	5	5	2	2	1	1	-	34
	1	1	5	5	2	2	1	1	-	36
1976-50	1	1	5	5	2	2	1	1	-	45
	1	1	5	5	2	2	1	1	-	34
2066-51	1	1	5	5	2	2	1	1	-	36
	1	1	5	5	2	2	1	1	-	37
	1	1	4	4	2	2	1	1	-	43
	1	1	5	5	2	2	1	1	-	37
2603-54	1	1	4	4	2	2	1	1	-	32
	1	1	5	5	2	2	1	1	-	32
	1	1	4	4	2	2	1	1	-	28
	1	1	5	5	2	2	1	1	-	34
	1	1	4	4	2	2	1	1	-	33
	1	1	4	4	2	2	1	1	-	30
	1	1	4	4	2	2	1	1	-	32
	1	1	5	5	2	2	1	1	-	32
	1	1	5	5	2	2	1	1	-	34
	1	1	5	5	2	2	1	1	-	32
	1	1	4	4	2	2	1	1	-	29
	1	1	5	5	2	2	1	1	-	24
	1	1	5	5	2	2	1	1	-	21
	1	1	4	4	2	2	1	1	-	24
Ensenada	1	1	5	5	-	-	-	-	-	33
Punta Banda	1	1	5	5	2	2	1	1	-	41
	1	1	5	5	2	2	1	1	-	45
El Descanso	1	1	5	5	2	2	1	1	-	31
	1	1	5	5	2	2	1	1	-	36
	1	1	4	4	2	2	1	1	-	32
	1	1	4	4	2	2	1	1	-	33
	1	1	4	4	2	2	1	1	-	29
San Martin Island	1	1	5	5	2	2	1	1	-	33
Dawson 1946-47 sta. 9	1	1	5	5	2	2	1	1	-	21

1.	2.		3.		4.		5.		6.	7.
	l	r	l	r	l	r	l	r		
<u>Lumbrineris inflata</u>										
125-33	1	1	4	4	3	3	2	2	19	20
559-36	1	1	5	5	3	3	2	2	20	20
1260-41	1	1	4	4	3	3	2	2	20	20
	1	1	4	4	3	3	2	2	20	20
1711-49	1	1	5	5	3	3	2	2	20	20
<u>Lumbrineris japonica</u>										
1924-49	1	1	5	5	2	2	1	1	-	9
	1	1	5	5	2	2	1	1	-	10
El Descanso	1	1	5	5	2	2	1	1	-	10
1 mi. N of El Descanso	1	1	5	5	2	2	1	1	-	10
	1	1	5	5	2	2	1	1	-	9
	1	1	5	5	2	2	1	1	-	10
	1	1	5	5	2	2	1	1	-	10
	1	1	5	5	2	2	1	1	-	10
	1	1	5	5	2	2	1	1	-	10
	1	1	5	5	2	2	1	1	-	10
	1	1	5	5	2	2	1	1	-	10
	1	1	5	5	2	2	1	1	-	10
	1	1	5	5	2	2	1	1	-	10
	1	1	5	5	2	2	1	1	-	10
	1	1	5	5	2	2	1	1	-	10
	1	1	5	5	2	2	1	1	-	10
1 mi. N of Ensenada	1	1	5	5	2	2	1	1	-	10
<u>Lumbrineris lagunae</u>										
497-35	1	1	5	4	1	1	1	1	-	10
915-39	1	1	5	4	1	1	1	1	-	10
1254-41	1	1	5	4	1	1	1	1	-	10
1264-41	1	1	5	4	1	1	1	1	-	10

1.	2.		3.		4.		5.		6.	7.
	l	r	l	r	l	r	l	r		
<u>Lumbrineris latreilli</u>										
259-34	1	1	5	5	2	2	1	1	24	25
	1	1	5	5	2	2	1	1	20	21
	1	1	5	5	2	2	1	1	18	19
533-36	1	1	5	5	2	2	1	1	21	22
563-36	1	1	5	5	2	2	1	1	23	24
	1	1	5	5	2	2	1	1	24	25
745-37	1	1	5	5	2	2	1	1	23	24
747-37	1	1	5	5	2	2	1	1	24	25
1075-40	1	1	5	5	2	2	1	1	23	24
	1	1	5	5	2	2	1	1	22	23
	1	1	5	5	2	2	1	1	22	23
	1	1	5	5	2	2	1	1	23	24
	1	1	5	5	2	2	1	1	24	25
	1	1	6	6	2	2	1	1	23	24
	1	1	5	6	2	2	1	1	24	25
	1	1	6	6	2	2	1	1	20	21
	1	1	5	5	2	2	1	1	17	18
	1	1	5	5	2	2	1	1	18	19
1078-40	1	1	5	5	2	2	1	1	20	21
	1	1	5	5	2	2	1	1	22	23
	1	1	5	5	2	2	1	1	22	23
1093-40	1	1	5	5	2	2	1	1	20	21
	1	1	5	5	2	2	1	1	23	24
1264-41	1	1	5	5	2	2	1	1	12	13
1561-46	1	1	5	5	2	2	1	1	13	14
1713-49	1	1	5	5	2	2	1	1	19	20
1914-49	1	1	5	5	2	2	1	1	13	14
2030-51	1	1	5	5	2	2	1	1	13	14
2596-54	1	1	5	5	2	2	1	1	17	18

1.	2.		3.		4.		5.		6.	7
	l	r	l	r	l	r	l	r		
Dawson 1946-47 sta. 57	1	1	5	5	2	2	1	1	12	1
Dawson 1946-47 sta. 68	1	1	5	5	2	2	1	1	12	1
Dawson 1946-47 sta. 85	1	1	5	5	2	2	1	1	12	1
	1	1	5	5	2	2	1	1	12	1
	1	1	5	5	2	2	1	1	12	1
North Whale Island	1	1	5	5	2	2	1	1	16	1
H50-71	1	1	5	5	2	2	1	1	18	1
1 mi. N of Ensenada	1	1	5	5	2	2	1	1	14	1
Mazatlan	1	1	5	5	2	2	1	1	11	1
<u>Lumbrineris limicola</u>										
750-37	1	1	4	4	2	2	1	1	10	1
6179-59	1	1	4	4	2	2	1	1	23	2
	1	1	4	4	2	2	1	1	27	2
6197-59	1	1	4	4	2	2	1	1	18	1
P 68-59	1	1	4	4	2	2	1	1	21	2
<u>Lumbrineris monroi</u>										
2603-54	1	1	4	4	2	2	1	1	-	1
	1	1	4	4	2	2	1	1	-	1
	1	1	4	5	2	2	1	1	-	2
	1	1	4	4	2	2	1	1	-	2
	1	1	4	4	2	2	1	1	-	2
<u>Lumbrineris moorei</u>										
7228-60	1	1	5	5	1	1	1	1	-	?
7229-60	1	1	5	5	1	1	1	1	-	2
<u>Lumbrineris platylobata</u>										
566-36	1	1	4	4	1	1	1	1	-	8
K 126	1	1	4	4	1	1	1	1	-	1
P 51-59	1	1	4	4	1	1	1	1	-	7
	1	1	4	4	1	1	1	1	-	9

1.	2.		3.		4.		5.		6.	7.
	l	r	l	r	l	r	l	r		
<u>Lumbrineris platypygos</u>										
1251-41	2	2	3	3	1	1	1	1	-	8
1924-49	2	2	3	3	1	1	1	1	-	7
6179-59	2	2	3	3	1	1	1	1	-	8
	2	2	3	3	1	1	1	1	-	7
	2	2	3	3	1	1	1	1	-	7
	2	2	3	3	1	1	1	1	-	7
	2	2	3	3	1	1	1	1	-	7
	2	2	3	3	1	1	1	1	-	7
	2	2	3	3	1	1	1	1	-	7
	2	2	3	3	1	1	1	1	-	7
	2	2	3	3	1	1	1	1	-	8
	2	2	3	3	1	1	1	1	-	8
	2	2	3	3	1	1	1	1	-	7
	2	2	3	3	1	1	1	1	-	7
	2	2	3	3	1	1	1	1	-	7
<u>Lumbrineris simplicis</u>										
1053-40	1	1	5	4	2	2	1	1	-	48
1063-40	1	1	4	4	2	2	1	1	-	48
	1	1	4	4	2	2	1	1	-	40
Puerto Refugio	1	1	4	5	2	2	1	1	-	?
<u>Lumbrineris tetraura</u>										
265-34	1	1	4	5	2	2	1	1	-	1
638-37	1	1	5	4	2	2	1	1	-	1
	1	1	4	4	2	2	1	1	-	1
	1	1	4	5	2	2	1	1	-	1
	1	1	4	5	2	2	1	1	-	1
1045-40	1	1	4	5	2	2	1	1	-	1
	1	1	4	5	2	2	1	1	-	1
	1	1	5	4	2	2	1	1	-	1
	1	1	4	5	2	2	1	1	-	1
	1	1	4	5	2	2	1	1	-	1
1076-40	1	1	4	5	2	2	1	1	-	1

1.	2.		3.		4.		5.		6.	7.
	l	r	l	r	l	r	l	r		
1706-49	1	1	5	4	2	2	1	1	-	1
San Quintin Bay	1	1	4	5	2	2	1	1	-	1
San Quintin Bay	1	1	5	4	2	2	1	1	-	1
	1	1	4	5	2	2	1	1	-	1
	1	1	4	5	2	2	1	1	-	1
K 133	1	1	5	5	2	2	1	1	-	1
<u>Lumbrineris zonata</u>										
1976-50	1	1	4	5	2	2	1	1	-	1
	1	1	5	4	2	2	1	1	-	1
	1	1	4	4	2	2	1	1	-	1
	1	1	4	5	2	2	1	1	-	1
	1	1	5	4	2	2	1	1	-	1
	1	1	4	4	2	2	1	1	-	1
	1	1	4	5	2	2	1	1	-	1
	1	1	4	5	2	2	1	1	-	1
	1	1	5	5	2	2	1	1	-	1
2066-51	1	1	4	5	2	2	1	1	-	1
	1	1	4	5	2	2	1	1	-	1
2624-54	1	1	5	5	2	2	1	1	-	1
Ensenada	1	1	4	4	2	2	1	1	-	1
	1	1	4	4	2	2	1	1	-	1
Absitos	1	1	4	5	2	2	1	1	-	1
	1	1	4	4	2	2	1	1	-	1
	1	1	4	5	2	2	1	1	-	1
	1	1	4	4	2	2	1	1	-	1
	1	1	5	4	2	2	1	1	-	1
	1	1	4	5	2	2	1	1	-	1
	1	1	4	4	2	2	1	1	-	1
	1	1	4	5	2	2	1	1	-	1
El Descanso	1	1	4	4	2	2	1	1	-	1

1.	2.		3.		4.		5.		6.	7.
	l	r	l	r	l	r	l	r		
	1	1	5	4	2	2	1	1	-	1
	1	1	4	4	2	2	1	1	-	1
	1	1	4	4	2	2	1	1	-	1
	1	1	4	4	2	2	1	1	-	1
	1	1	4	5	2	2	1	1	-	1
	1	1	4	5	2	2	1	1	-	1
	1	1	4	4	2	2	1	1	-	1
	1	1	4	5	2	2	1	1	-	1
	1	1	5	5	2	2	1	1	-	1
	1	1	4	5	2	2	1	1	-	1
	1	1	4	4	2	2	1	1	-	1
	1	1	4	4	2	2	1	1	-	1
	1	1	4	5	2	2	1	1	-	1
	1	1	4	4	2	2	1	1	-	1
	1	1	4	5	2	2	1	1	-	1
	1	1	4	4	2	2	1	1	-	1
	1	1	4	5	2	2	1	1	-	1
	1	1	5	4	2	2	1	1	-	1
	1	1	4	5	2	2	1	1	-	1
	1	1	4	5	2	2	1	1	-	1
	1	1	4	4	2	2	1	1	-	1
	1	1	4	5	2	2	1	1	-	1
	1	1	4	5	2	2	1	1	-	1
San Quintin Bay	1	1	4	4	2	2	1	1	-	1
1 mi. N of El Descanso	1	1	4	5	2	2	1	1	-	1
	1	1	4	4	2	2	1	1	-	1
	1	1	4	5	2	2	1	1	-	1
P 51-59	1	1	4	4	2	2	1	1	-	1
Puerto Penasco	1	1	4	5	2	2	1	1	-	1

TABLE 3.

Material of Arabellidae from western Mexico

The table gives a survey of the material on which the number of teeth on the maxillae was counted; the total number of specimens of each species is found in the systematic account.

The columns are:

1. Station number or location.
2. to 6. Number of teeth on maxillae I to V, from forceps to the smallest anterior piece. These columns are each divided in two parts marked l and r for the left and right side as seen from the dorsum.

1.	2.		3.		4.		5.		6.	
	l	r	l	r	l	r	l	r	l	r
<u>Arabella iricolor</u>										
545-36	7	8	7	12	4	4	3	3	1	1
1053-40	7	8	7	14	5	5	4	4	1	1
1104-40	8	9	7	14	5	5	5	5	1	1
1595-47	7	9	7	14	5	5	4	4	1	1
1915-49	7	7	7	12	4	4	2	2	1	1
1950-50	7	8	8	14	5	5	4	4	1	1
El Descanso	8	8	8	15	4	4	3	4	1	1
	6	8	6	16	4	4	4	4	1	1
	9	9	8	15	5	5	3	3	1	1
	9	9	8	14	5	5	4	4	1	1
	7	10	8	14	4	4	4	4	1	1
	9	?	8	?	4	?	4	?	1	?
	9	10	8	14	4	4	4	4	1	1
	9	10	9	15	4	4	4	4	1	1
	8	10	8	14	5	5	5	5	1	1
	8	10	7	14	5	5	4	4	1	1

1.	2.		3.		4.		5.		6.	
	l	r	l	r	l	r	l	r	l	r
<u>Arabella mutans</u>										
662-37	8	9	16	16	6	6	5	5	1	1
704-37	9	10	14	14	5	5	4	4	1	1
1077-40	?	?	?	?	5	5	3	3	1	1
K 127	9	10	14	16	5	5	4	4	1	1
<u>Arabella pectinata</u>										
El Descanso	9	11	8	17	7	8	6	6	1	1
	9	9	8	17	7	7	7	7	1	1
	9	10	8	17	9	11	7	9	1	1
	10	11	10	14	9	9	7	7	1	1
<u>Arabella semimaculata</u>										
1063-40	8	9	8	15	5	5	5	5	1	1
	8	10	8	16	5	6	4	5	1	1
	8	10	7	13	5	5	4	3	1	1
	8	9	8	16	4	5	4	5	1	1
	8	11	8	17	5	6	5	5	1	1
	8	9	7	17	5	4	4	4	1	1
1079-40	8	10	8	17	6	6	4	5	1	1
	9	10	9	16	5	6	5	5	1	1
1092-40	8	10	9	14	6	6	5	5	1	1
	8	10	8	14	5	5	4	4	1	1
1594-47	10	10	8	15	5	5	3	3	1	1
1976-50	10	11	8	15	7	6	5	5	1	1
	10	11	9	14	0	7	0	5	1	1
	8	10	9	15	6	7	4	5	1	1
	8	10	7	15	6	7	5	5	1	1
	8	10	8	16	6	7	5	6	1	1
2603-54	9	10	9	16	5	7	5	5	1	1
	8	8	8	17	6	7	5	6	1	1
2623-54	8	10	8	15	5	5	4	4	1	1

1.	2.		3.		4.		5.		6.	
	l	r	l	r	l	r	l	r	l	r
Punta Banda	11	11	6	15	5	5	5	5	1	1
San Felipe	8	10	7	16	4	4	4	4	1	1
	8	11	7	15	5	5	5	5	1	1
	8	10	8	15	4	4	3	3	1	1
<u>Drilonereis falcata</u>										
634-37	7	7	9	8	5	5	2	2	1	1
1009-39	5	5	7	7	1	1	1	1	1	1
1010-39	5	5	7	7	1	1	1	1	-	-
P 196-60	4	4	6	6	1	1	1	1	-	-
	5	5	6	6	1	1	1	1	-	-
<u>Drilonereis nuda</u>										
1251-41	0	0	5	5	1	1	1	1	-	-
6179-59	0	0	6	6	2	2	1	1	-	-
Ensenada	0	0	6	6	2	2	1	1	-	-

TABLE 4.

Material of Oenone fulgida from western Mexico

The list contains all material on which the number of teeth on the maxillae and the first occurrence of the subacicular hooks have been counted; the total number of specimens is found in the systematic account.

The columns are:

1. Station number or location.
2. to 6. The number of teeth on maxillae I to V, from the forceps to the smallest anterior plate; these columns have been divided in two, marked l and r for the left and right side as seen from the dorsum.
7. The setiger, counted from the anterior end, on which the first subacicular hook occurs.
8. Form number,- the asymmetrical form has been given number 1, the symmetrical form number 2.

1.	2.		3.		4.		5.		6.		7.	8.
	l	r	l	r	l	r	l	r	l	r		
298-34	11	10	10	16	9	9	7	7	1	1	16	1
530-36	12	13	13	14	8	8	6	7	1	1	15	1
634-37	10	13	10	16	9	8	6	6	1	1	15	1
638-37	8	9	8	8	6	6	6	4	1	1	15	2
	9	8	8	7	5	6	4	6	1	1	15	2
	8	7	7	7	5	5	4	5	1	1	16	2
	8	7	7	7	5	5	5	4	1	1	15	2
1042-40	8	7	8	8	6	6	5	5	1	1	17	2
	10	13	12	15	8	8	6	6	1	1	14	1
	10	13	11	16	7	7	6	6	1	1	16	1
	11	14	12	13	8	9	6	6	1	1	14	1
	10	14	11	14	8	8	8	8	1	1	18	1
	9	13	11	12	9	9	7	7	1	1	?	1
	10	13	11	14	8	8	5	7	1	1	?	1
	8	10	9	12	5	8	6	5	1	1	?	1
1077-40	10	10	11	13	7	7	5	5	1	1	18	1

1.	2.		3.		4.		5.		6.		7.	8.
	l	r	l	r	l	r	l	r	l	r		
1079-40	10	10	10	13	7	8	5	6	1	1	14	1
1091-40	10	13	11	16	8	8	5	5	1	1	19	1
1104-40	7	7	8	7	5	5	4	4	1	1	14	2
	8	8	7	7	6	6	5	5	1	1	14	2
	9	9	7	6	4	4	4	4	1	1	19	2
	8	8	7	7	6	6	5	5	1	1	16	2
	9	9	8	8	5	5	4	4	1	1	18	2
	9	10	7	6	6	6	5	5	1	1	16	2
1718-49	10	12	10	13	7	7	7	7	1	1	16	1
2596-54	10	12	11	15	8	8	7	7	1	1	15	1
	maxillary apparatus absent										18	?
Sta. 2825	10	12	12	15	8	8	7	6	1	1	?	1
Mazatlan	10	12	11	14	9	9	7	7	1	1	24	1
Point Lobos	7	9	9	8	5	5	5	5	1	1	14	2
Puerto Escondido	9	9	8	7	7	6	4	4	1	1	17	2
Punta Cholla	10	10	11	15	9	9	7	7	1	1	14	1
Puerto Penasco	10	14	11	15	8	8	5	5	1	1	17	1

PLATES

PLATE 1

Eunice antennata (287-34)

- a. Subacicular hook, posterior setiger, 570x.
- b. Composite hook, posterior setiger, 570x.
- c. Aciculum, posterior setiger, 570x.

Eunice americana (1010-39)

- d. Subacicular hook, posterior setiger, 285x.
- e. Composite hook, posterior setiger, 570x.

Eunice biannulata mexicana (747-37)

- f. Subacicular hook, posterior setiger, 285x.
- g. Composite hook, posterior setiger, 427.5x.

Eunice afra (Point Lobos, Espiritu Santo Island)

- h. Subacicular hook, posterior setiger, 570x.
- i. Composite hook, tenth setiger, 570x.

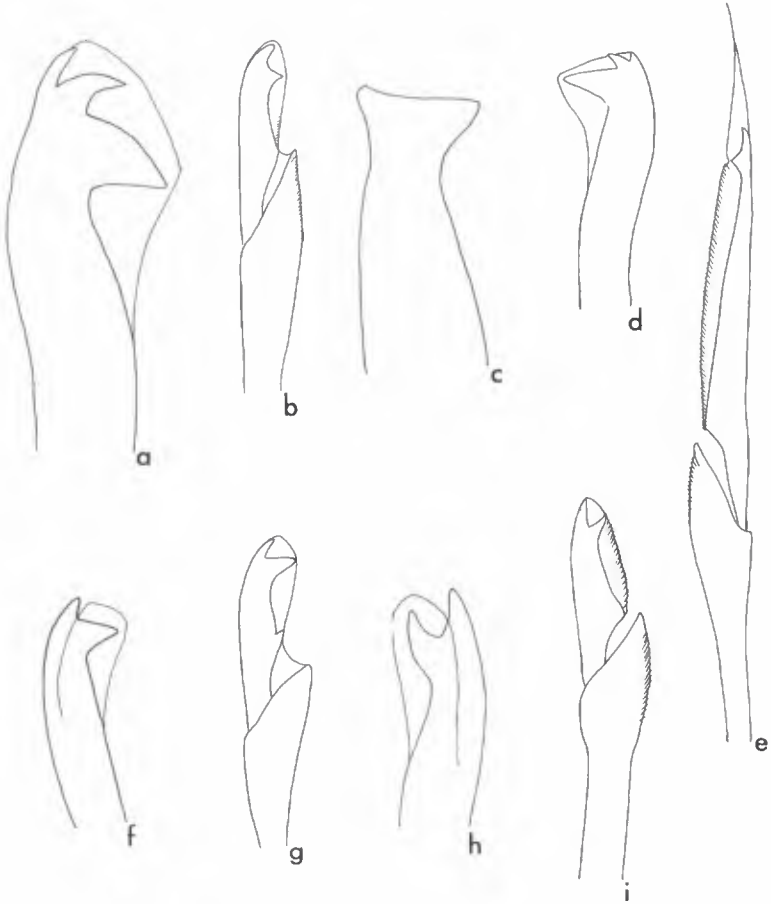


PLATE 2

Eunice cedroensis (1245-41)

- a. Anterior end, dorsal view, 25x.
- b. Composite hook, posterior setiger, 570x.
- c. Subacicular hook, posterior setiger, 570x.
- d. Second parapodium, 50x.
- e. Twelfth parapodium, 50x.

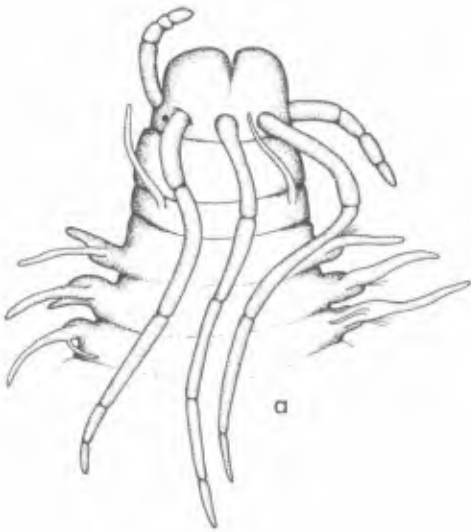


PLATE 3

Eunice aphroditois (530-36)

- a. Composite hook, posterior setiger, 285x.
- b. Subacicular hook, posterior setiger, 285x.

Eunice filamentosa (1053-40)

- c. Subacicular hook, posterior setiger, 380x.
- d. Composite hook, seventh setiger, 570x.
- e. Composite hook, posterior setiger, 570x.
- f. Pectinate seta, posterior setiger, 570x.
- g. Aciculum, posterior setiger, 380x.

Eunice multipectinata (1256-41)

- h. Subacicular hook, posterior setiger, 285x.
- i. Composite hook, posterior setiger, 285x.

Eunice mutilata (1743-49)

- j. Subacicular hook, posterior setiger, 285x.
- k. Composite hook, posterior setiger, 442.5x.

Eunice vittata (532-36)

- l. Composite hook, posterior setiger, 570x.
- m. Subacicular hook, posterior setiger, 570x.

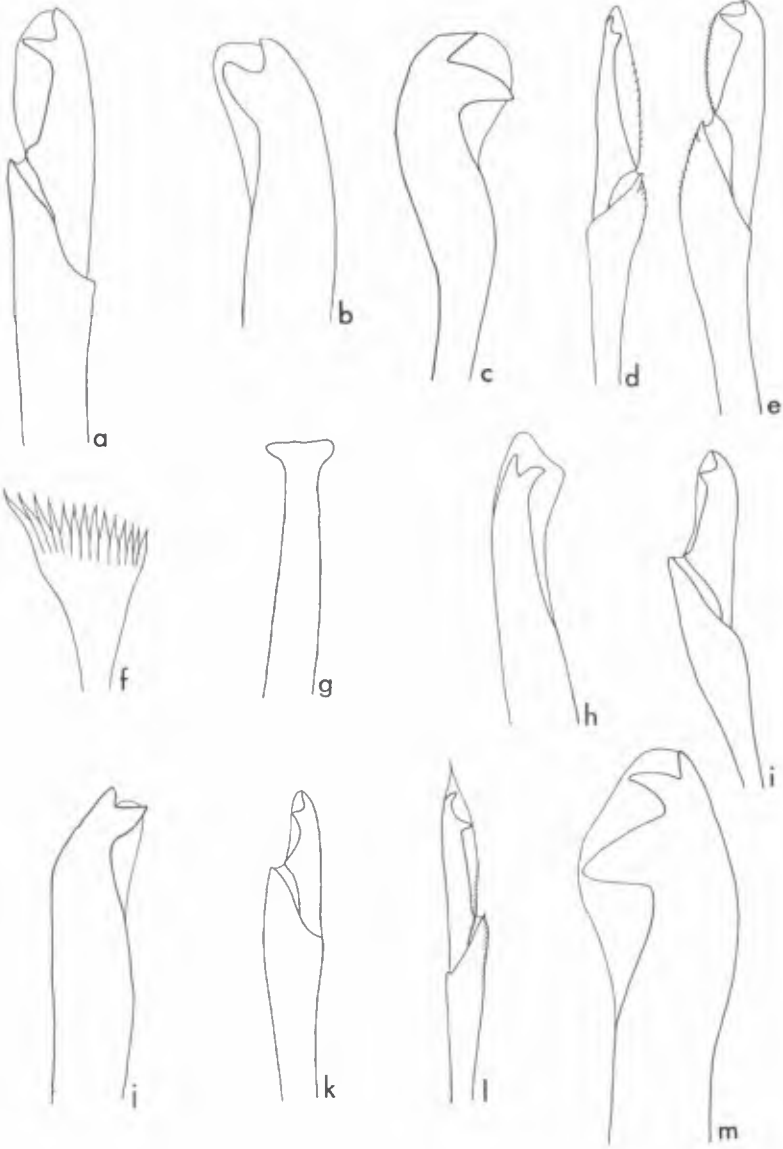


PLATE 4

Eunice megabranhia (Guaymas Basin, Gulf of California)

- a. Pectinate seta, posterior setiger, 570x.
- b. Subacicular hook, posterior setiger, 285x.
- c. Anterior end, dorsal view, 5x.
- d. Composite hook, posterior setiger, 285x.
- e. Parapodium 18, 10x.

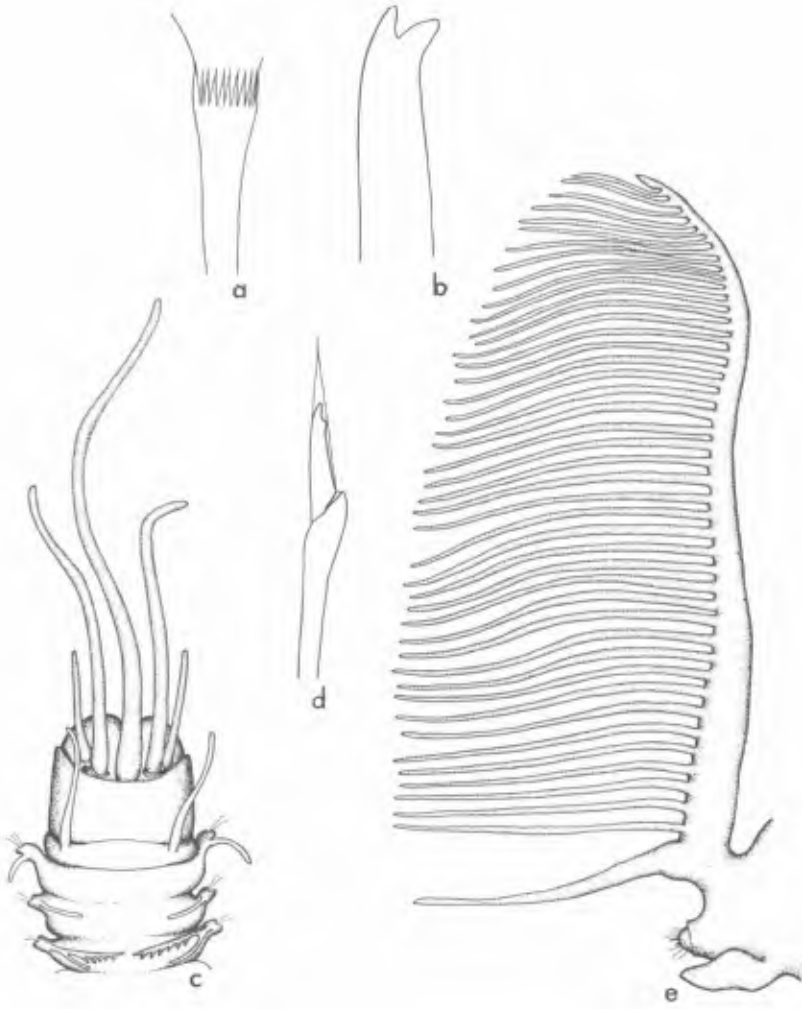


PLATE 5

Eunice reducta (1734-49)

- a. Composite hook, posterior setiger, 625x.
- b. Pectinate seta, posterior setiger, 625x.
- c.-d. Subacicular hooks, posterior setigers, 585x.
- e. Subacicular hook, posterior setiger, 285x.
- f. Third parapodium, 17.5x.
- g. Posterior parapodium, 25x.
- h. Anterior end, dorsal view, 5x.
- i. Tenth parapodium, 17.5x.

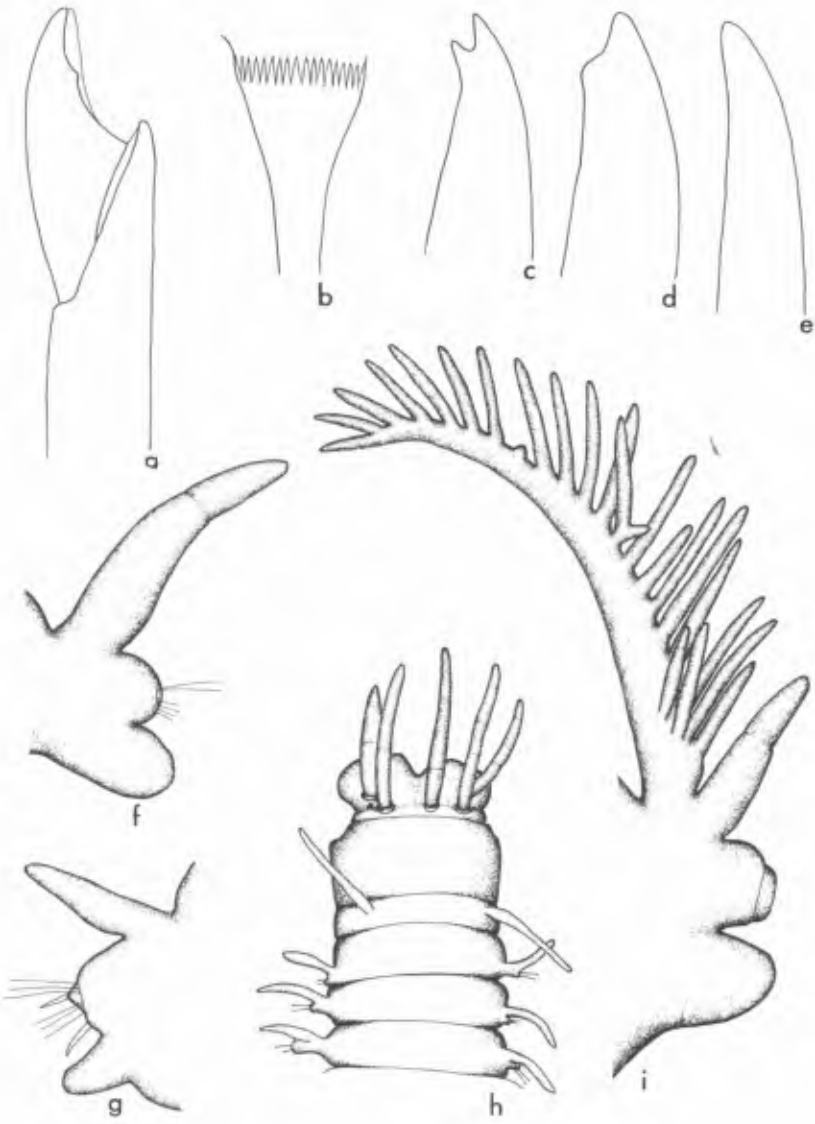


PLATE 6

Eunice sonora (Puerto Penasco)

- a. Anterior end, dorsal view, 5x.
- b. Pectinate seta, posterior setiger, 285x.
- c. Subacicular hook, posterior setiger, 285x.
- d. Composite hook, posterior setiger, 570x.
- e. Composite hook, sixth setiger, 570x.
- f. Parapodium 63, 25x.
- g. Sixth parapodium, 25x.

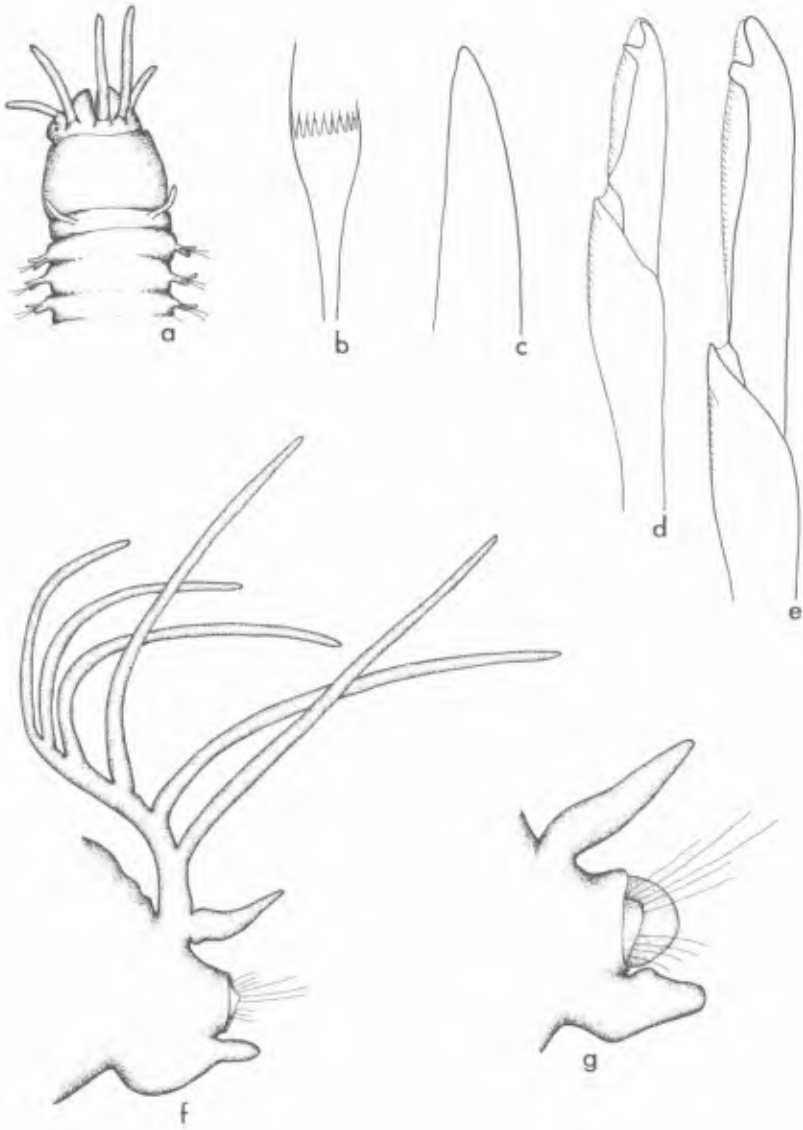


PLATE 7

Eunice vittatopsis (739-37)

- a. Second parapodium, 32x.
- b. Subacicular hook, posterior setiger, 570x.
- c. Composite hook, posterior setiger, 570x.
- d. Twenty-fifth parapodium, 32x.

Marphysa mortenseni (off Tijuana River)

- e. Parapodium 60, 25x.

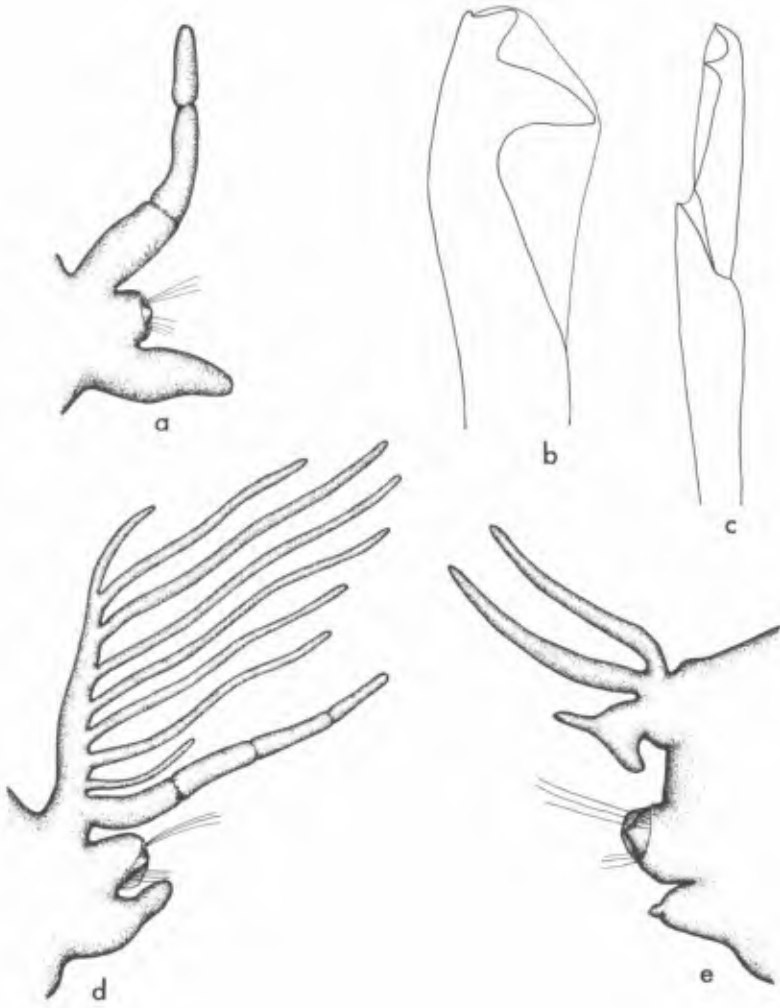


PLATE 8

Marphysa angelensis (1048-40)

- a. Anterior end, dorsal view, 25x.
- b. Composite spiniger, setiger 28, 570x.
- c. Third parapodium, 50x.
- d. Parapodium 28, 50x.
- e. Subacicular hook, setiger 28, 570x.
- f. Composite hook, setiger 28, 570x.
- g. Appendage of composite hook, posterior setiger, 570x.
- h. Coarse pectinate seta, posterior setiger, 570x.

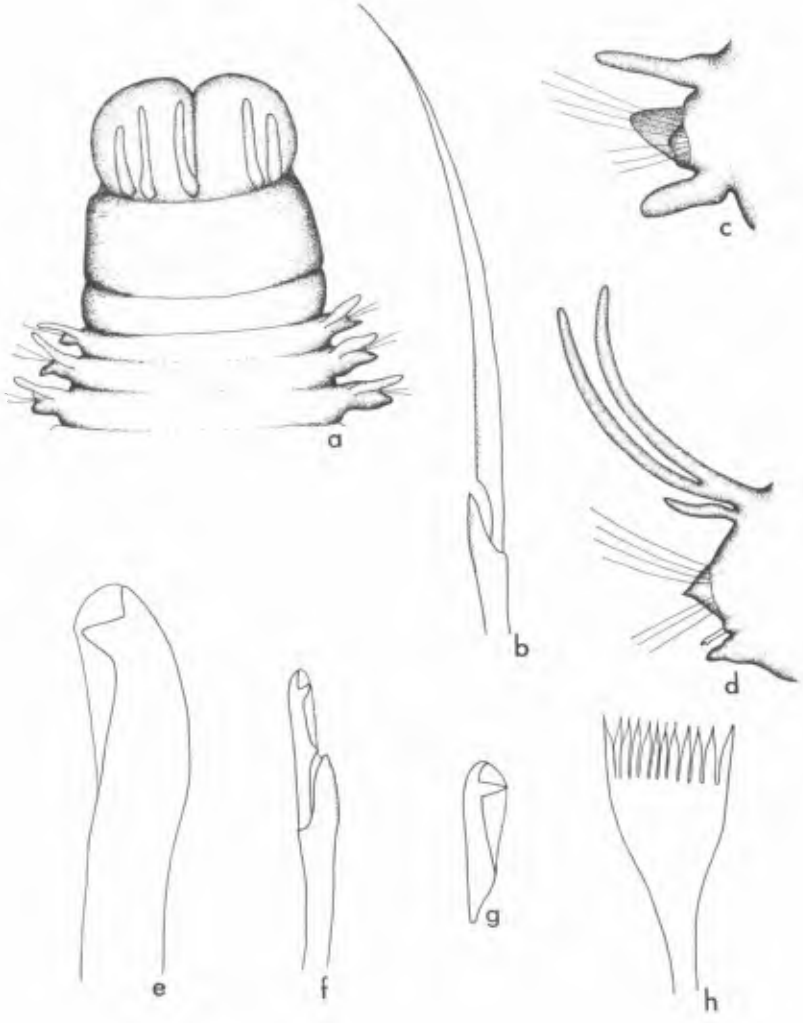


PLATE 9

Marphysa mixta (4-33)

- a. Anterior end, dorsal view, 10x.
- b. Fourth parapodium, 50x.
- c. Composite spiniger, setiger 53, 570x.
- d. Parapodium 90, 50x.
- e. Pectinate seta, setiger 90, 570x.
- f. Pectinate seta, setiger 20 from the posterior end, 570x.
- g. Composite hook, setiger 53, 570x.
- h. Subacicular hook, setiger 53, 570x.

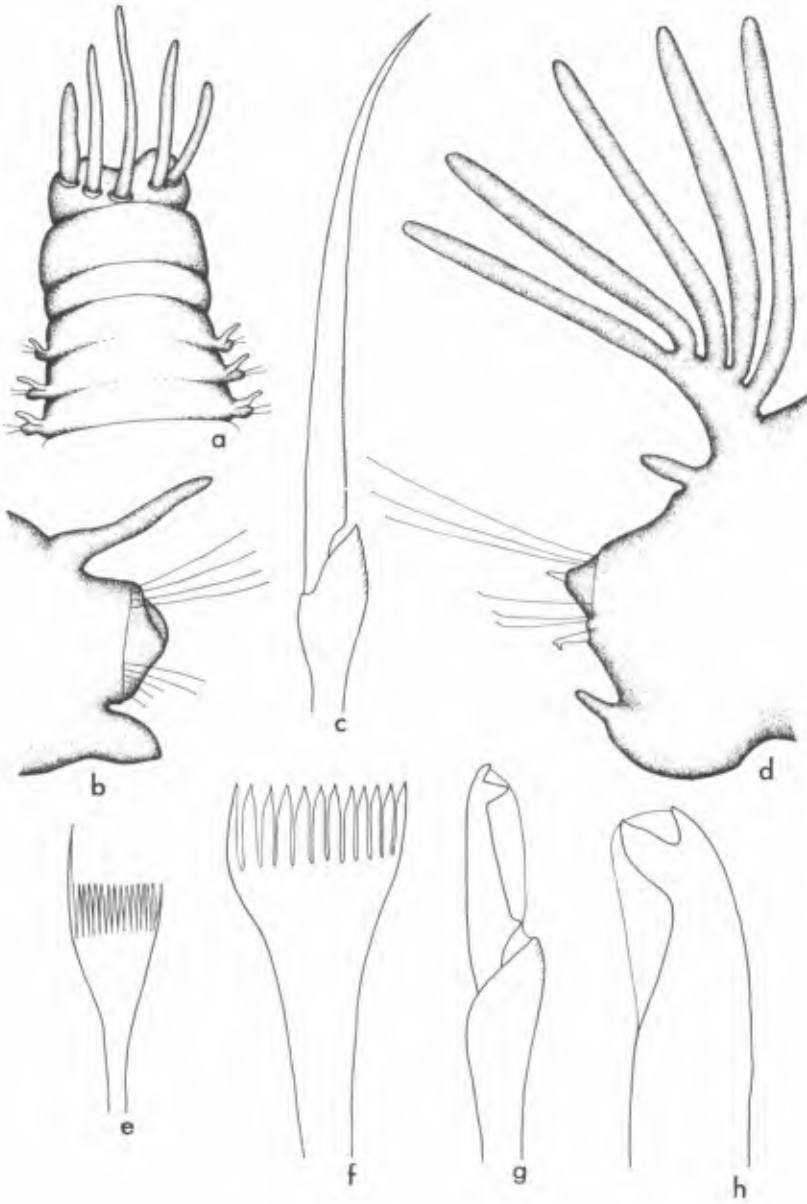


PLATE 10

Lumbrineris californiensis (1694-49)

- a. Composite hook, fifth setiger, 1350x.
- b. Posterior parapodium, 50x.
- c. Simple hook, posterior setiger, 570x.
- d. Fifth parapodium, 105x.

Lumbrineris bicirrata (1030-40)

- e. Simple hook, setiger 120, 635x.
- f. Fifth parapodium, 50x.
- g. Parapodium 120, 50x.

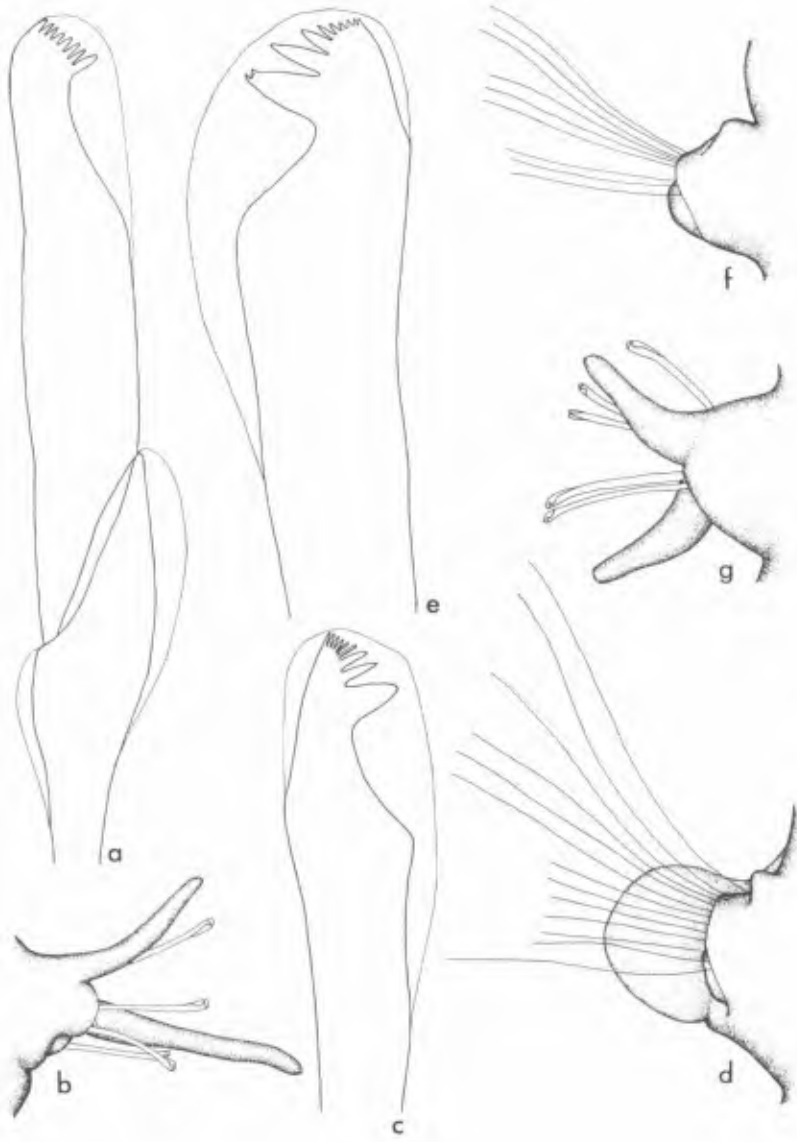


PLATE 11

Lumbrineris cedroensis (P 137-61)

- a. Simple hook, setiger 95, 635x.
- b. Appendage of composite hook, fifth setiger, 635x.
- c. Parapodium 95, 75x.
- d. Fifth parapodium, 105x.
- e. Anterior end, dorsal view, 10x.

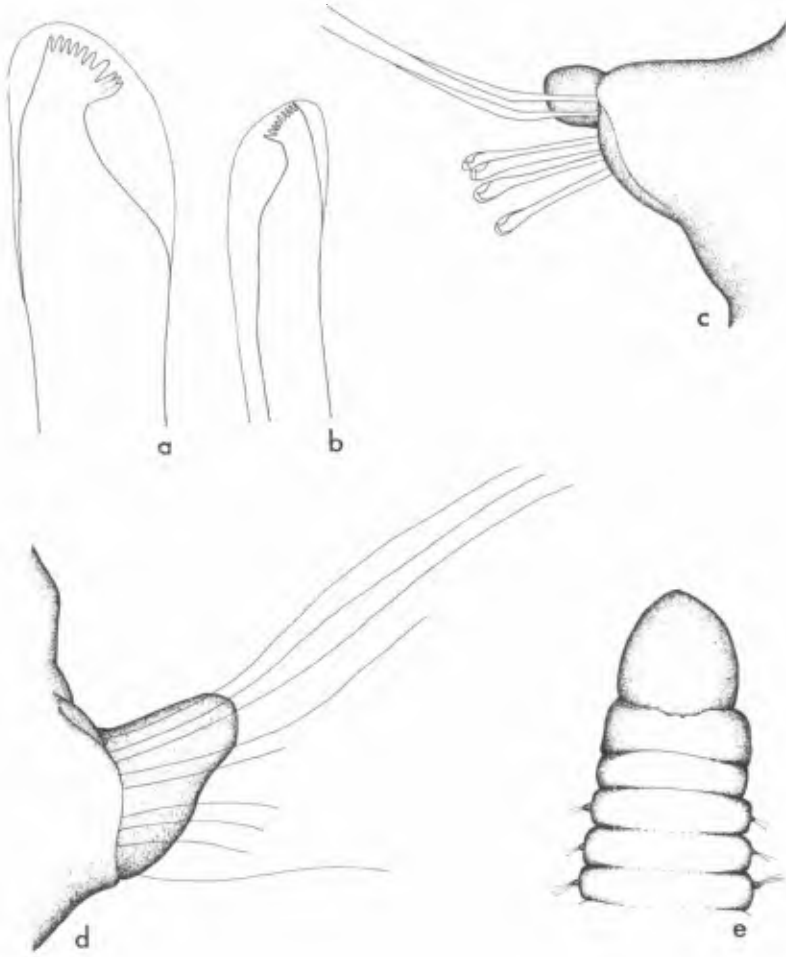


PLATE 12

Lumbrineris crassidentata (2624-54)

- a. Simple hook, setiger 100, 1350x.
- b. Anterior end, dorsal view, 50x.
- c. Simple hook, second setiger, 1350x.
- d. Simple hook, setiger 200, 1350x.
- e. Second parapodium, 260x.
- f. Parapodium 200, 200x.

Lumbrineris cruzensis (1703-49)

- g. Fifth parapodium, 140x.
- h. Anterior end, dorsal view, 25x.
- i. Simple hook, setiger 70, 570x.
- j. Composite hook, fifth setiger, 1350x.

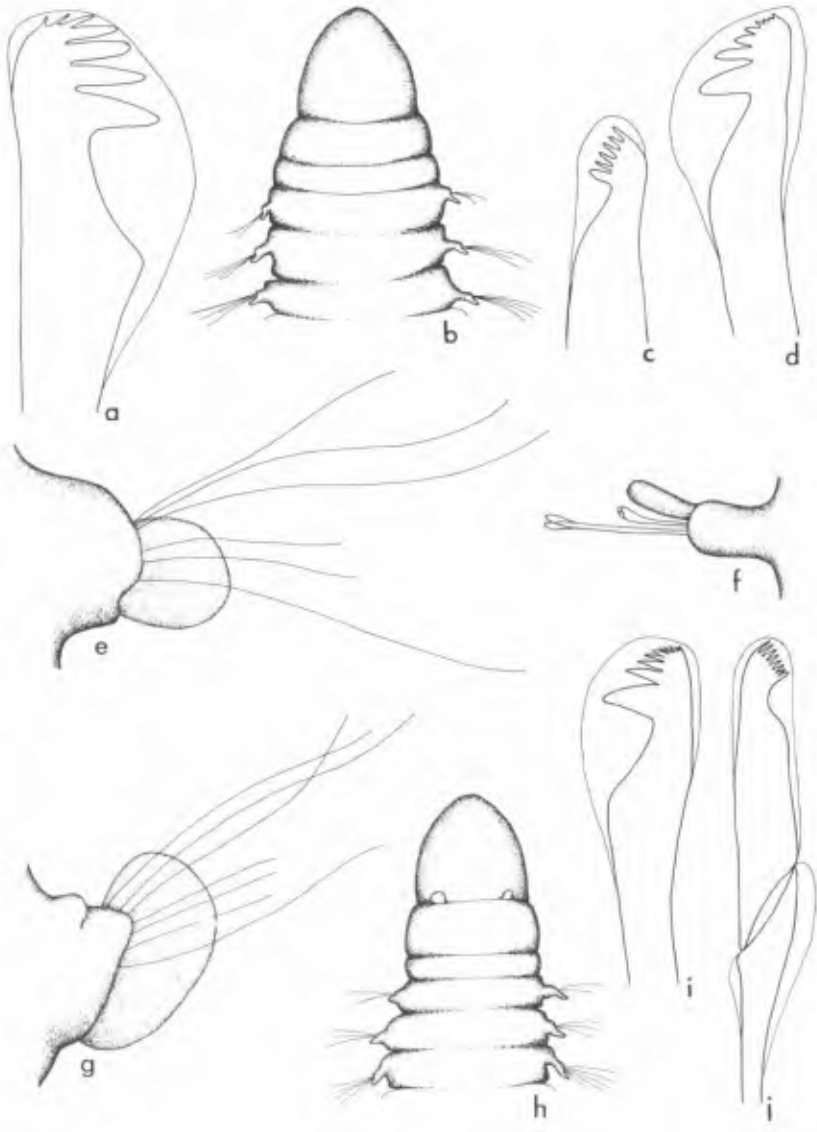


PLATE 13

Lumbrineris erecta (Punta Banda)

- a. Simple hook, posterior setiger, 420x.
- b. Fifth parapodium, 25x.

Lumbrineris eugeniae (7235-61)

- c. Appendage of composite hook, eighth parapodium, 635x.
- d. Junction of pro- and peristomium showing nuchal organ and the nuchal tentacle, 25x.
- e. Parapodium 45, 50x.
- f. Simple hook, setiger 45, 635x.

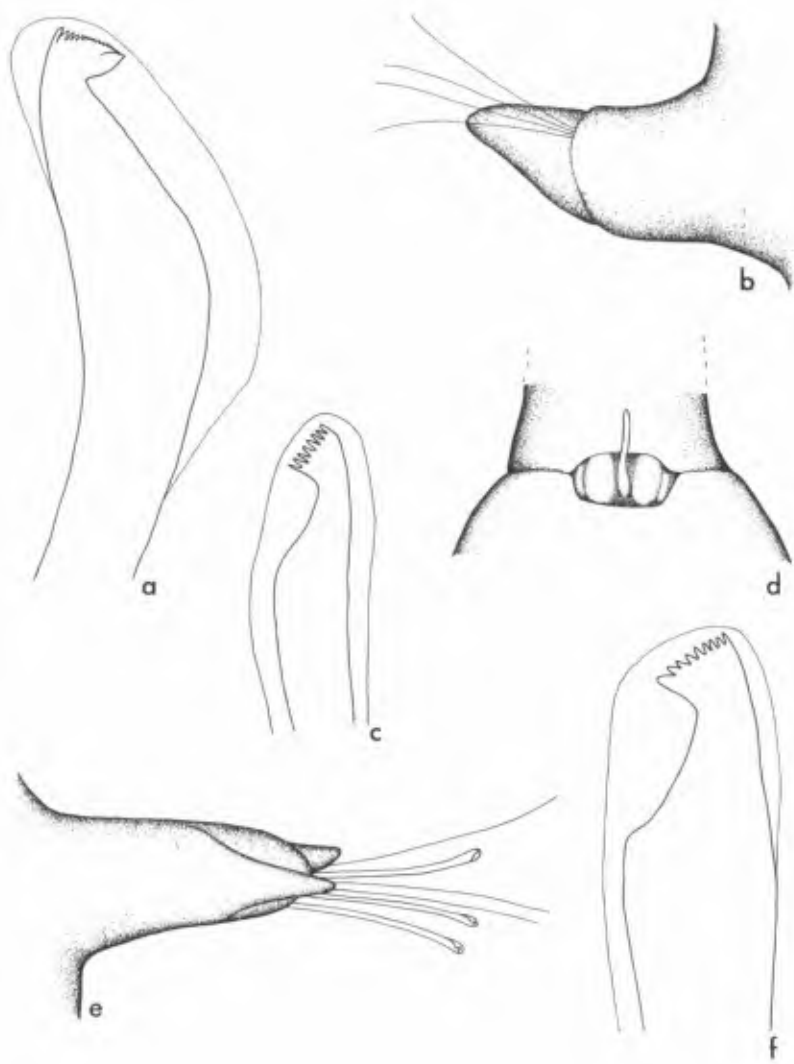


PLATE 14

Lumbrineris inflata (559-36)

- a. Fifth parapodium, 130x.
- b. Median parapodium, 130x.
- c. Simple hook, median parapodium, 570x.
- d. Composite hook, fifth parapodium, 635x.

Lumbrineris japonica (El Descanso)

- e. Composite hook, fifth parapodium, 635x.
- f. Simple hook, posterior parapodium, 635x.

Lumbrineris longensis (P 41-59)

- g. Simple hook, setiger 60, 625x.
- h. Simple hook, third setiger, 1350x.
- i. Parapodium 60, 50x.
- j. Anterior end, dorsal view, 10x.

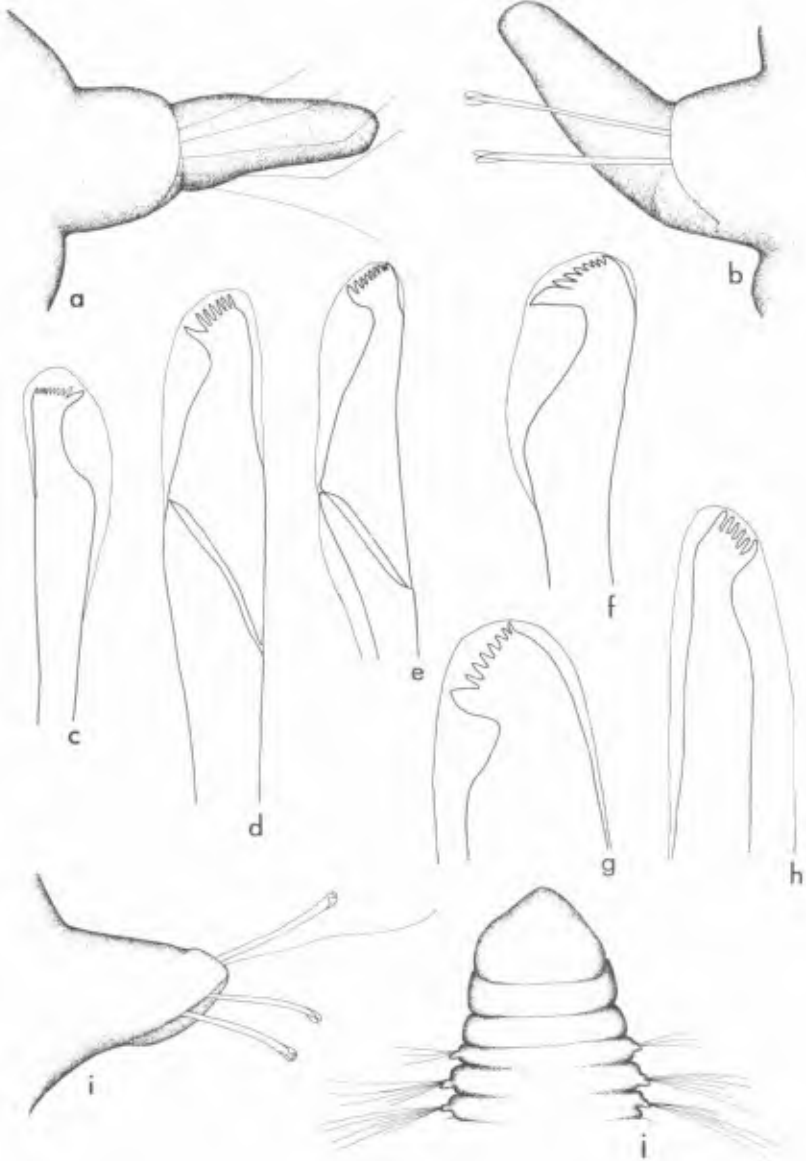


PLATE 15

Lumbrineris lagunae (1130-40)

- a. Fifth parapodium, 100x.
- b. Anterior end, dorsal view, 10x.
- c. Simple hook, setiger 106, 570x.
- d. Simple hook, fifth setiger, 1350x.
- e. Parapodium 106, 70x.

Lumbrineris latreilli (1075-40)

- f. Fifth parapodium, 70x.
- g. Appendage of composite hook, fifth setiger, 1350x.
- h. Simple hook, posterior parapodium, 570x.

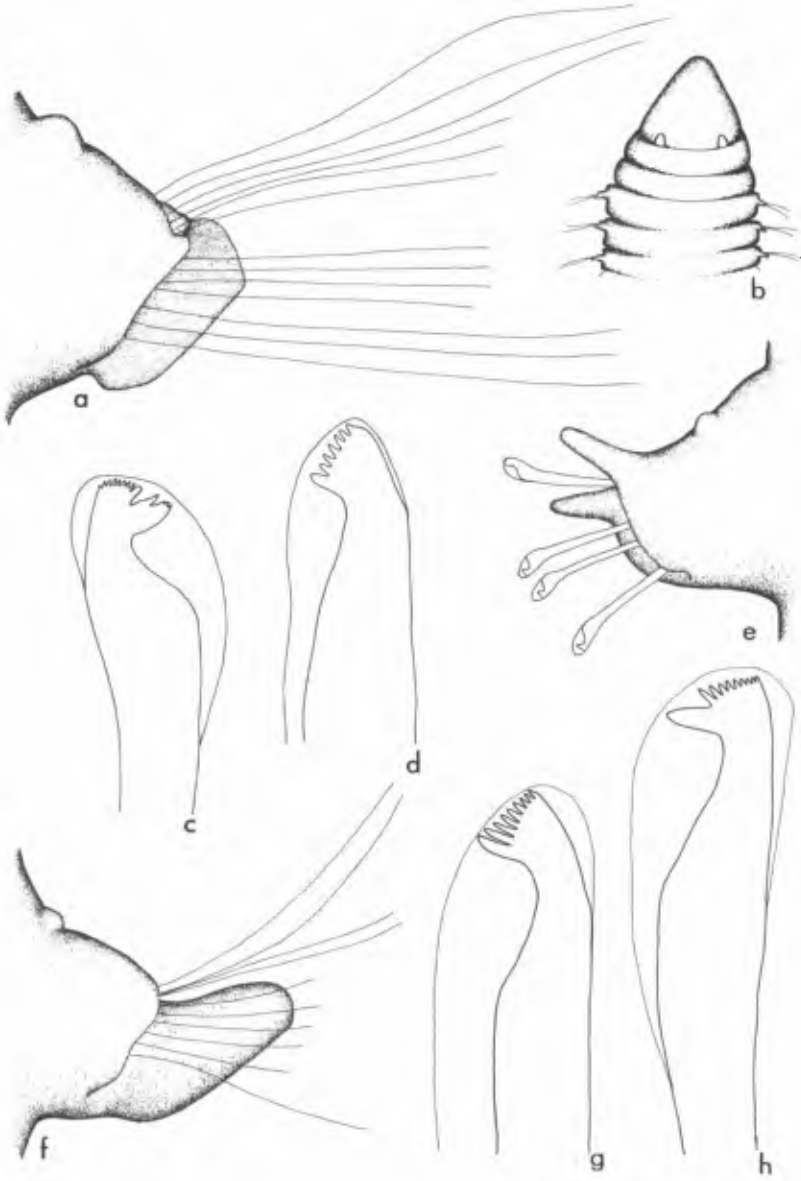


PLATE 16

Lumbrineris limicola (6179-59)

- a. Posterior parapodium, 70x.
- b. Simple hook, posterior setiger, 635x.
- c. Appendage of composite hook, fifth setiger, 635x.
- d. Fifth parapodium, 70x.

Lumbrineris monroi (2603-54)

- e. Parapodium 75, 100x.
- f. Simple hook, setiger 75, 635x.
- g. Simple hook, setiger 35, 635x.
- h. Anterior end, dorsal view, 25x.
- i. Fifth parapodium, 100x.



PLATE 17

Lumbrineris penascensis (Puerto Penasco)

- a. Anterior end, dorsal view, 25x.
- b. Simple hook, posterior parapodium, 635x.
- c. Posterior parapodium, 70x.

Lumbrineris platylobata (P 51-59)

- d. Simple hook, setiger 75, 635x.
- e. Simple hook, setiger 20, 635x.
- f. Parapodium 75, 150x.
- g. Anterior end, dorsal view, 50x.
- h. Parapodium 20, 150x.

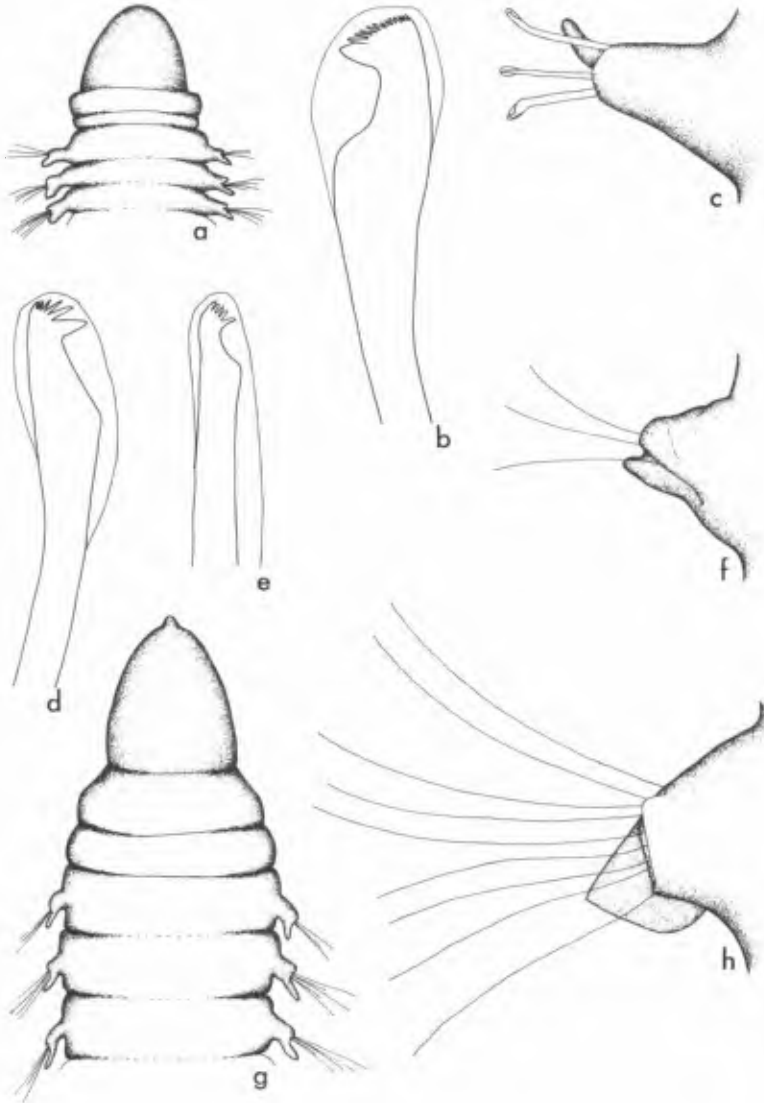


PLATE 18

Lumbrineris platygygos (6179-59)

- a. Pygidium and posterior setigers, 285x.
- b. Simple hook, median setiger, 1350x.
- c. Maxillary carriers and maxillae, 285x.
- d. Anterior end, dorsal view, 135x.

Lumbrineris zonata (El Descanso)

- e. Simple hook, posterior setiger, 635x.
- f. Posterior parapodium, 70x.
- g. First parapodium, 70x.
- h. Simple hook, first setiger, 1350x.
- i. Simple hook, fifth setiger, 1350x.

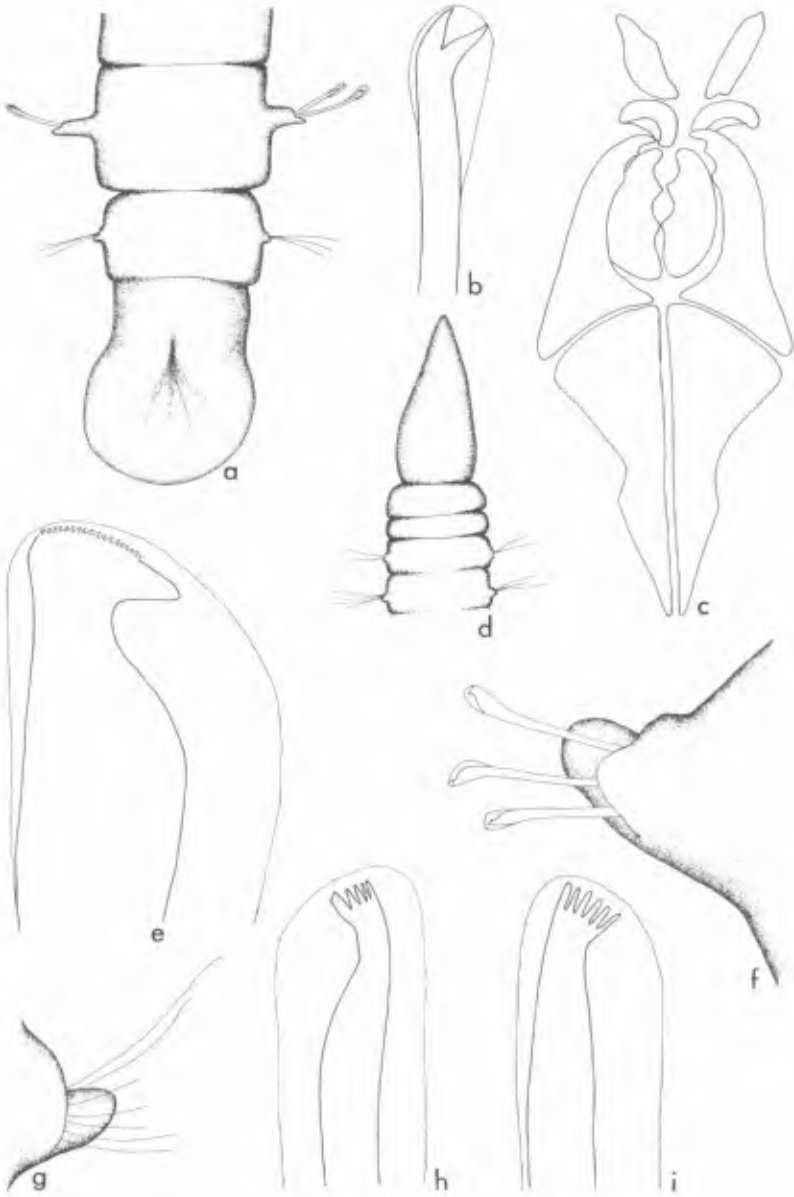


PLATE 19

Lumbrineris simplicis (1063-40)

- a. Simple hook, posterior setiger, 635x.

Lumbrineris tetraura (1045-40)

- b. Simple hook, fifth setiger, 570x.
- c. Simple hook, posterior setiger, 420x.
- d. Posterior parapodium, 50x.
- e. Fifth parapodium, 50x.

Ninoe dolichognatha (Punta Cholla)

- f. Anterior end, dorsal view, 10x.
- g. Simple hook, fifth setiger, 635x.
- h. Simple falcate hook, setiger 25, 635x.
- i. Simple hook, setiger 25, 635x.
- j. Superior simple hook, posterior setiger, 635x.
- k. Median simple hook, posterior setiger, 635x.

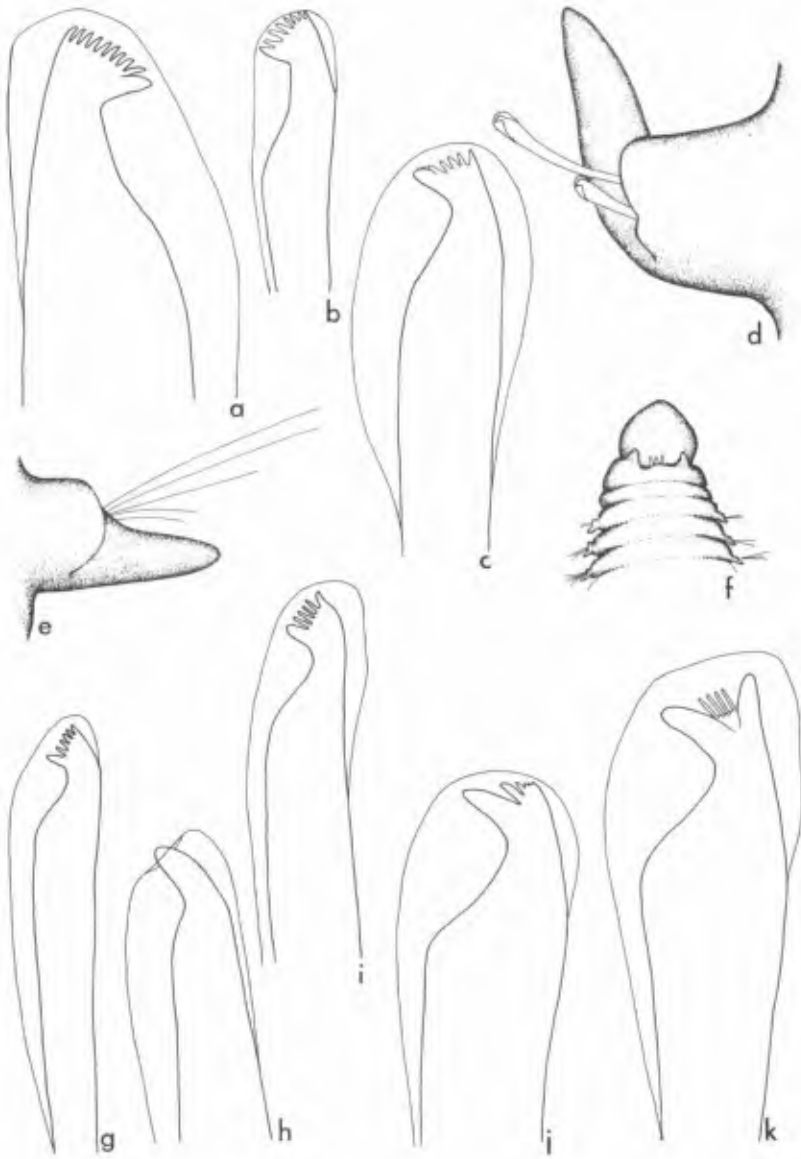


PLATE 20

Arabella iricolor (El Descanso)

- a. Maxillary carriers and maxillae, 25x.
- b. Portion of median seta, posterior setiger, 570x.
- c. Parapodium 300, 70x.
- d. Tenth parapodium, 70x.

Arabella semimaculata (1063-40)

- e. Third parapodium, 50x.
- f. Portion of median seta, posterior setiger, 570x.
- g. Posterior parapodium, 25x.

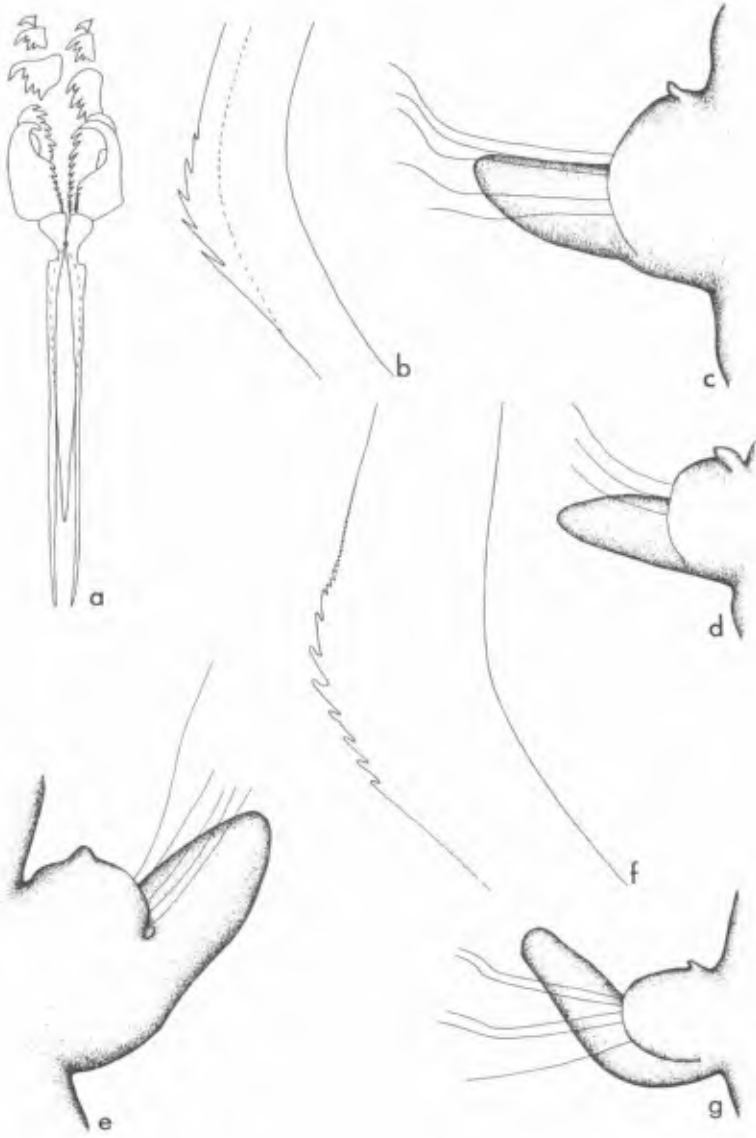


PLATE 21

Arabella mutans (704-37)

- a. Fifth parapodium, 70x.
- b. Posterior parapodium, 70x.
- c. Superior seta, posterior setiger, 570x.
- d. Median seta, posterior setiger, 570x.
- e. Inferior seta, posterior setiger, 570x.
- f. Inferiormost seta, posterior setiger, 570x.

Drilonereis falcata (634-37)

- g. Median parapodium, 50x.

Drilonereis ?filum (Ensenada)

- h. Posterior parapodium, 50x.

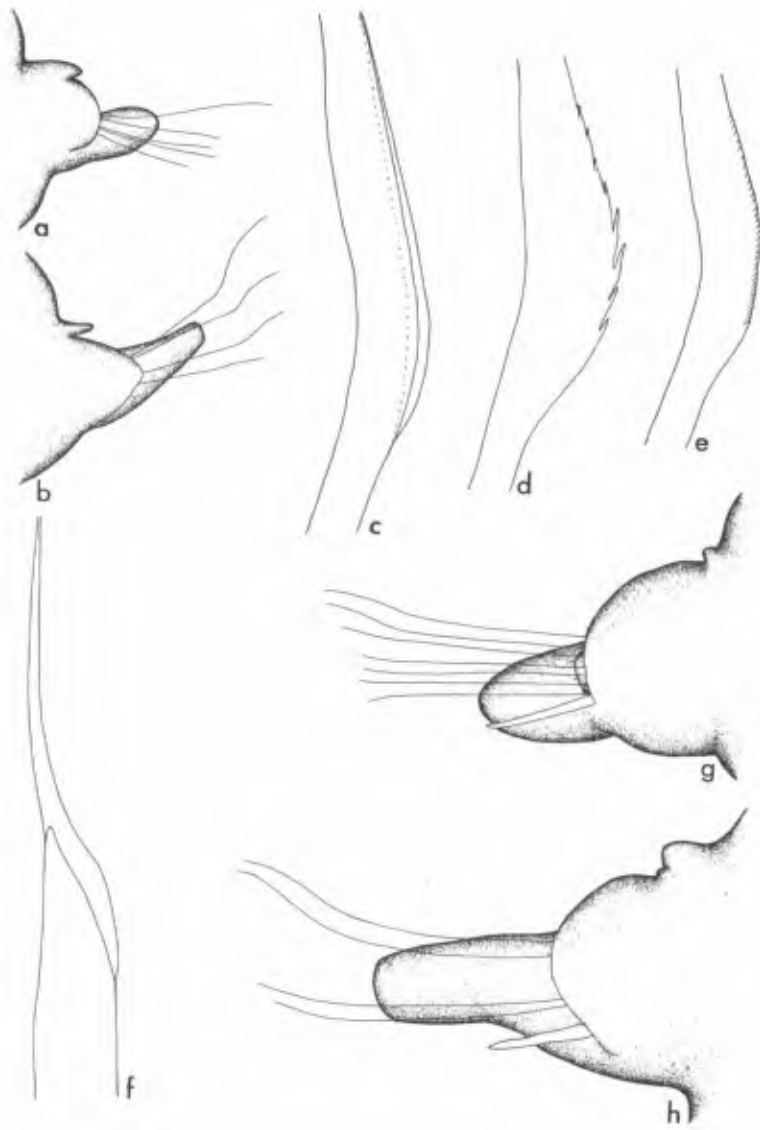


PLATE 22

Arabella pectinata (El Descanso)

- a. Maxillary carriers and maxillae, 25x.
- b. Mandibles, 37x.
- c. Parapodium 100, 50x.
- d. Tenth parapodium, 70x.
- e. Portion of median seta, setiger 100, 570x.
- f. Parapodium 345, 50x.

Drilonereis nuda (Ensenada)

- g. Median parapodium, 285x.

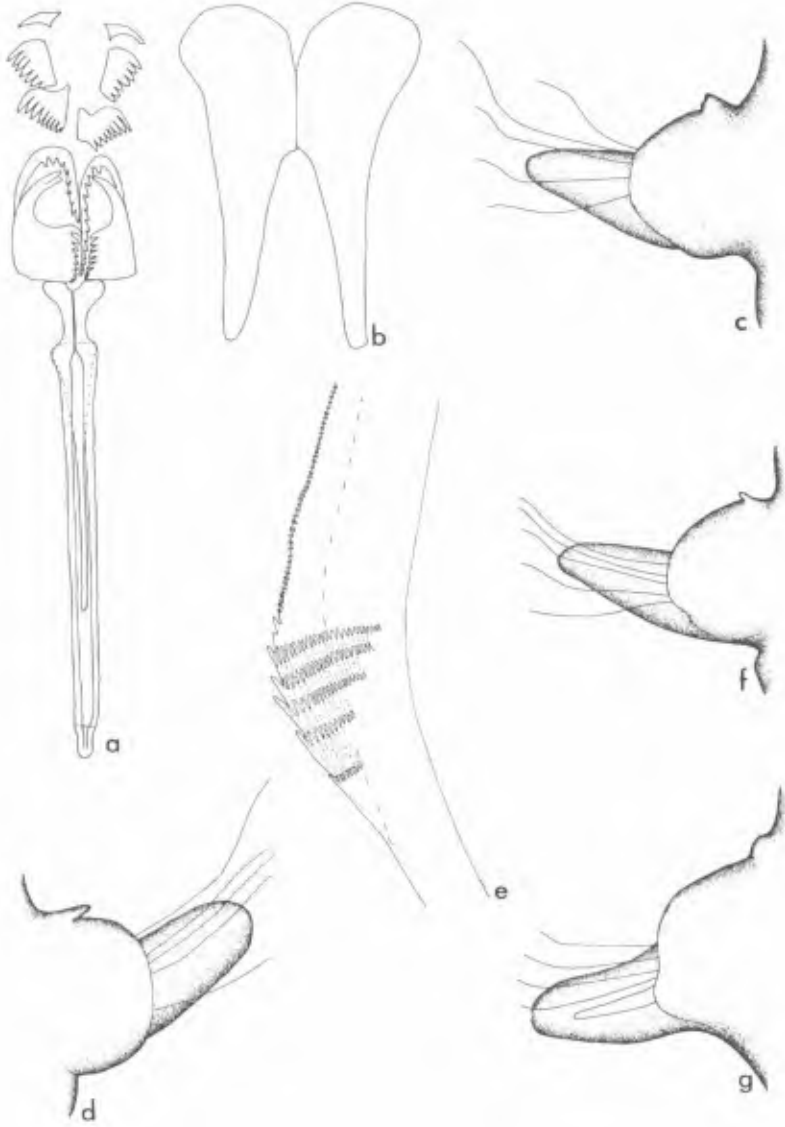


PLATE 24

Oenone fulgida (Espiritu Santo Island)

- a. Parapodium 75, 50x.
- b. Subacicular hook, setiger 75, 570x.
- c. Tenth parapodium, 50x.
- d. Parapodium 315, 50x.

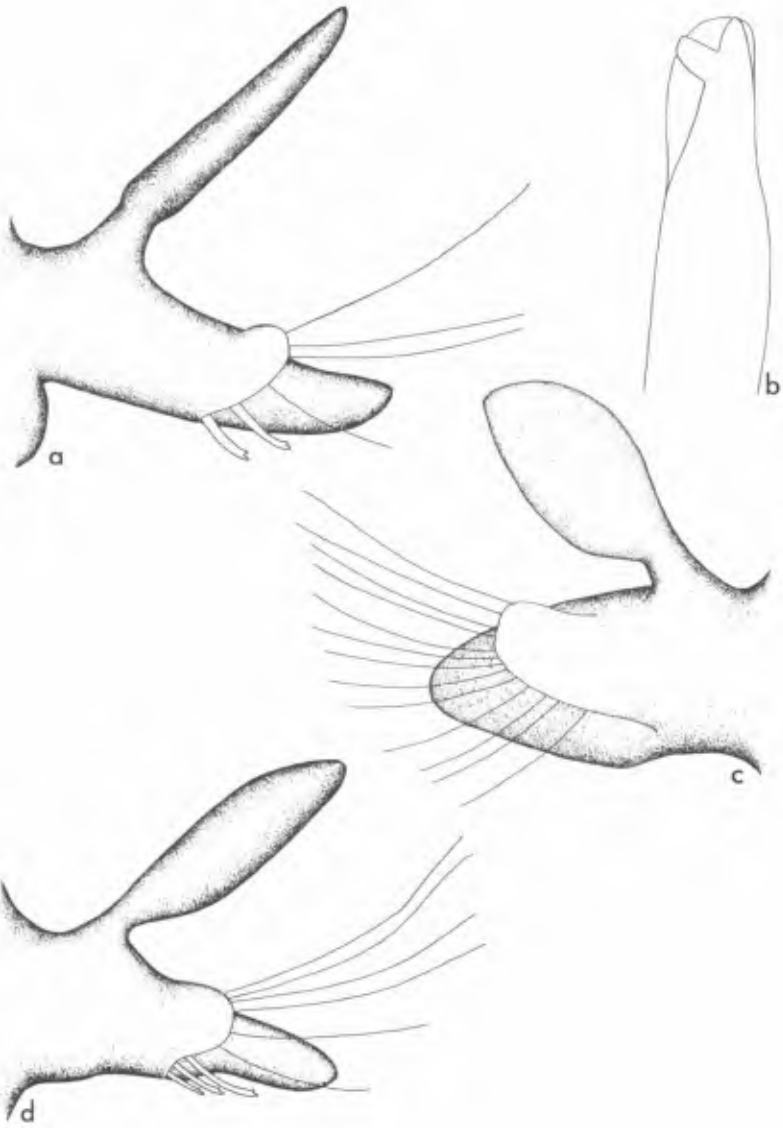


PLATE 25

Dorvillea annulata (P 71-59)

- a. Posterior parapodium, 200x.
- b. Furcate seta, posterior parapodium, 570x.
- c. Portion of dorsal seta, posterior parapodium, 570x.
- d. Inferior composite hook, posterior parapodium, 570x.
- e. Right mandible, 130x.
- f. Superior composite hook, posterior parapodium, 570x.
- g. Basal portion of maxillae and maxillary carriers, 285x.
- h. Denticle 17, second maxilla, 570x.
- i. Lateral view of denticle 20, first maxilla, 570x.
- j. Denticle 20, first maxilla, 570x.

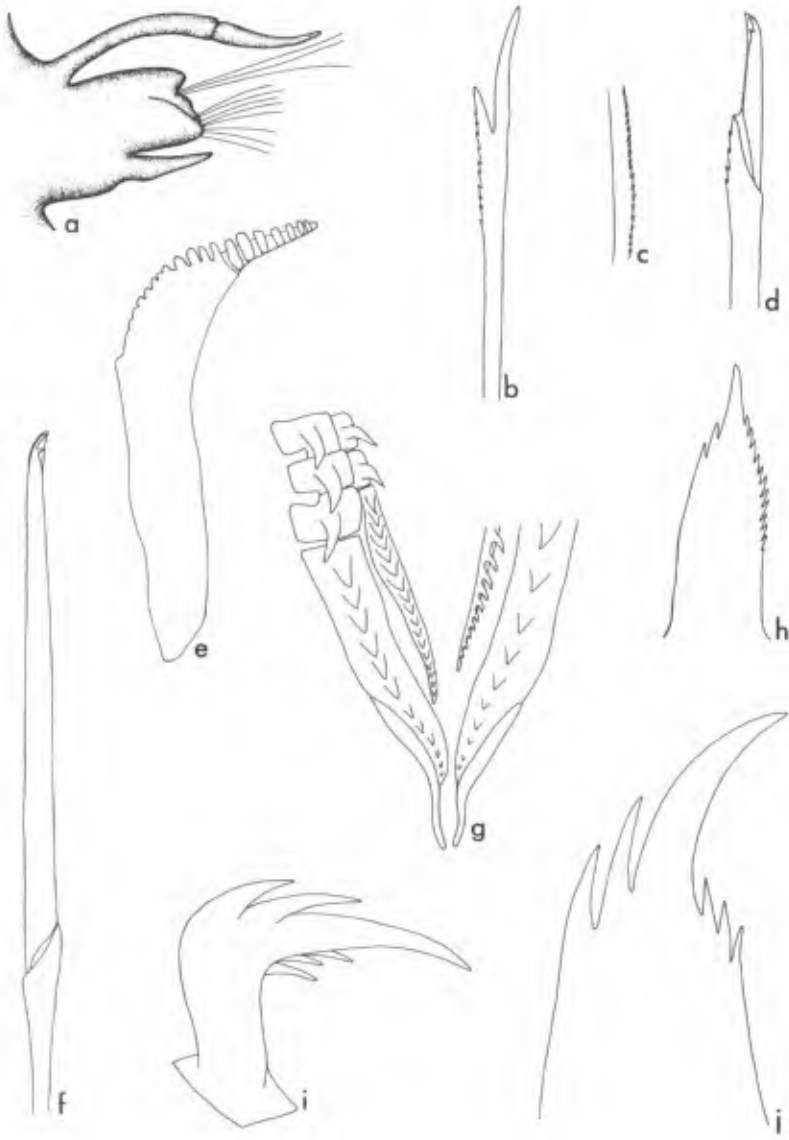


PLATE 26

Dorvillea cerasina (639-37)

- a. Anterior end, dorsal view, 25x.
- b. Posterior parapodium, 50x.
- c. Composite hook, posterior setiger, 570x.
- d. Portion of dorsal seta, posterior setiger, 570x.
- e. Mandibles, 58x.
- f. Lateral view of maxillary carriers and basal portion of maxilla I, 130x.
- g. Maxillary carriers and basal portion of maxillae I and II, 130x.
- h. Denticle 12, second maxilla, 285x.
- i. Denticle 18, first maxilla, 285x.
- j. Lateral view, denticle 30, second maxilla, 570x.
- k. Cross-section, denticle 32, first maxilla, 570x.
- l. Lateral view, denticle 32, first maxilla, 570x.

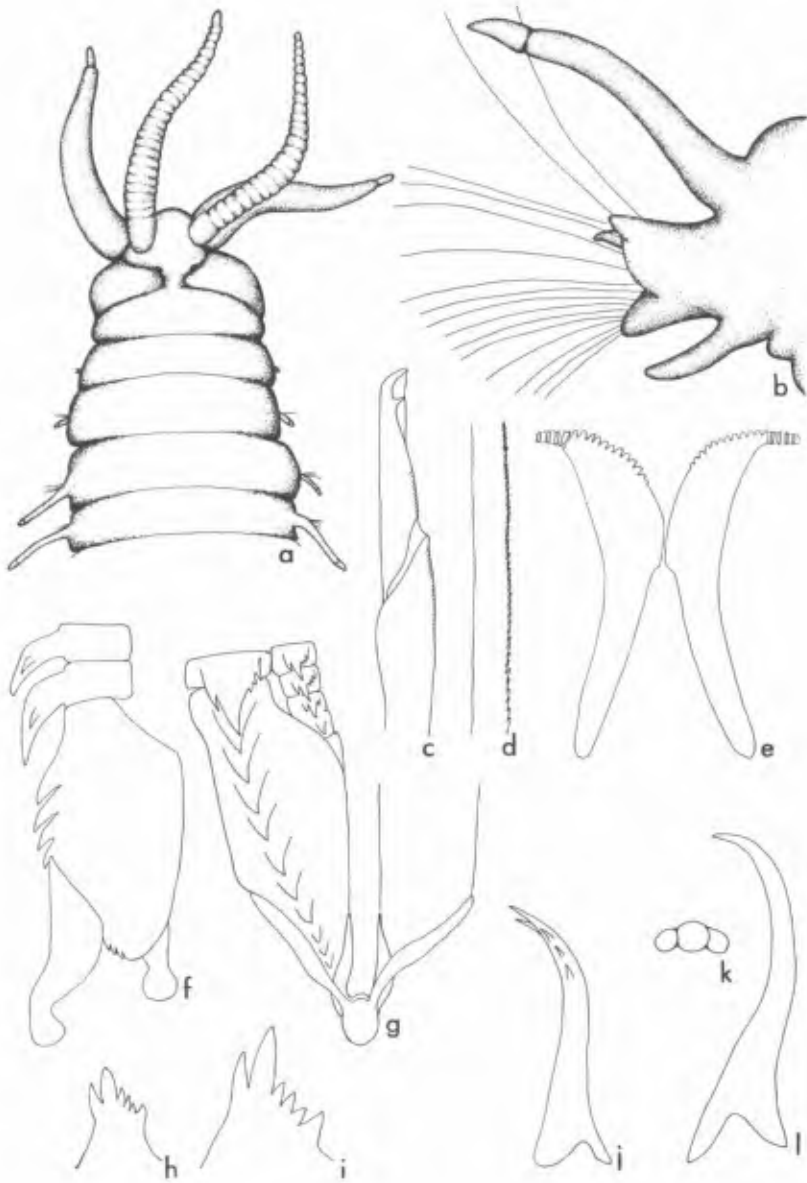


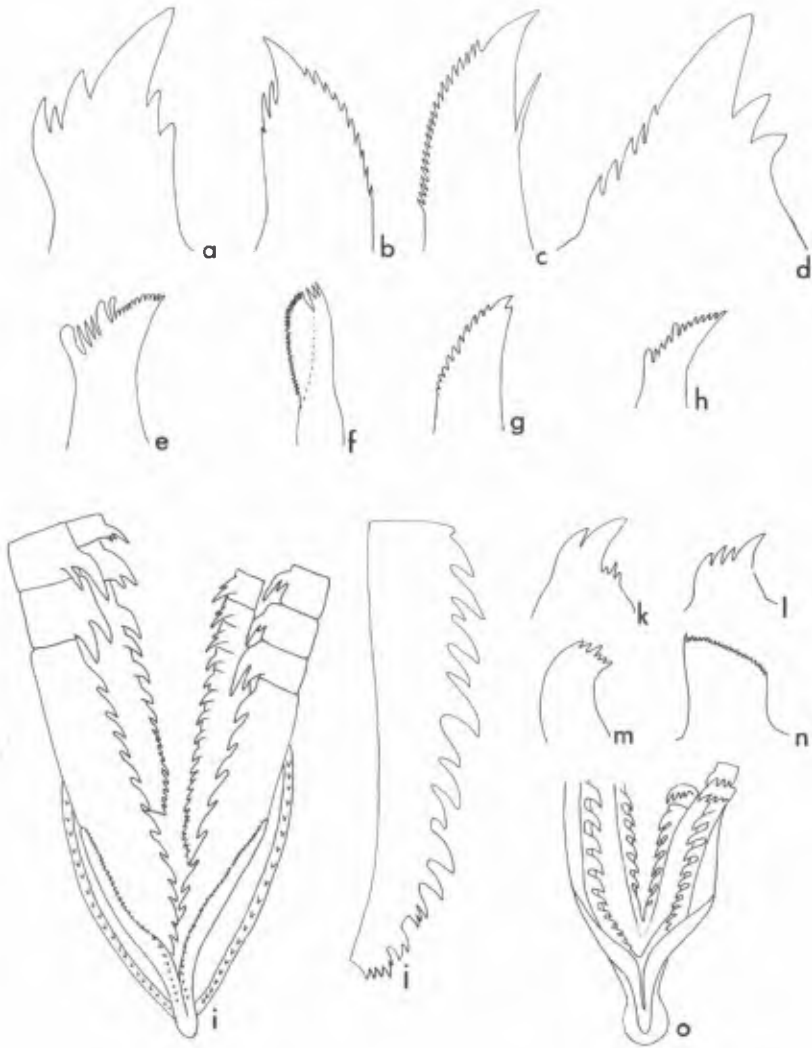
PLATE 27

Dorvillea rudolphi (K 134)

- a. Denticle 20, first maxilla, 570x.
- b. Denticle 22, second maxilla, 570x.
- c. Denticle 20, third maxilla, 570x.
- d. Denticle 20, fourth maxilla, 570x.
- e. Denticle 5 from anterior end, first maxilla, 570x.
- f. Denticle 8 from anterior end, second maxilla, 570x.
- g. Denticle 6 from anterior end, third maxilla, 570x.
- h. Denticle 6 from anterior end, fourth maxilla, 570x.
- i. Maxillary carriers and basal portion of maxillae I-II and IV, 285x.
- j. Base plate of right maxilla II, 570x.

Protodorvillea gracilis (6176-59)

- k. Denticle 4, first maxilla, 635x.
- l. Denticle 3, second maxilla, 635x.
- m. Denticle 4 from anterior end, first maxilla, 635x.
- n. Denticle 4 from anterior end, second maxilla, 635x.
- o. Maxillary carriers and basal portion of maxilla I-II, 570x.



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