

setigers. The body is short and thick in front and tapers posteriorly; it grossly resembles an Amage. The prostomium is trilobed; it lacks eyespots. Paleae are absent. Thoracic uncini are present from the third setiger and number 14 pairs. Branchiae number three pairs and are inserted in a straight, transverse line; they are of one kind, long, tapering, thickest at the base, and each is pigmented along its outer edge, leaving a median longitudinal pale band; branchiae extend back to setiger 5 or 6.

Oral tentacles are smooth, all of one kind; they are inserted on the upper side of a broad, crescentic membrane. Abdominal notopodia are small, papillar lobes; neuropodia have transverse rows of uncini. The pygidium terminates in a pair of short, thick, lateral lobes. Some individuals are surrounded by a thin, translucent tube which is easily torn.

Distribution: Slope depths, 196 to 1102 m.

Genus Samythella Verrill, 1873

Samythella elongata Verrill, 1873

Samythella elongata Verrill, 1873, p. 98.

Record: Ch 103 (2, with tubes).

Diagnosis: Length is 20 mm, width 2.1 mm in widest part of thorax; the body consists of 15 thoracic setigers, of which 12 are uncinigerous, and the abdomen of 25 to 29 segments. Paleae are absent. Oral tentacles are long, smooth and numerous. The lower lip has an entire, straight margin. The prostomium is broad, flat, trilobed, and extends forward as a thin membrane over the oral area; its outer lateral areas are thickest. Branchiae number three pairs; all are smooth, inserted on an erect, transverse membrane which is continuous middorsally. Abdominal

notopodia are small, conical papillae; the corresponding neuropodia are transverse tori with single rows of uncini. Thoracic uncini are avicular, with teeth in one row. The tube is long, thin and externally covered with gravel.

Distribution: Abyssal depth, 2022 m.

ampharetid, apaleal

Records: Ch 85 (12); A 120 (3, small).

Remarks: Only small fragments are available. Paleae are absent. Oral tentacles are short and smooth. The nuchal region is prolonged, smooth and appears inflated. Branchiae may number three pairs; they are inserted on a raised, transverse membrane in a straight line; their styles are lost. The first setiger is smallest, and those following are increasingly larger.

Distribution: Abyssal depths, 3834 to 5023 m.

ampharetid, paleal

Records: Ch 85 (2); Ch 84 (31); A 122 (23); A 120 (4).

Remarks: Small, imperfect specimens, with conspicuous paleal fascicles, and three pairs of branchiae inserted on a raised, transverse membrane.

Distribution: Abyssal depths, 3834 to 5023 m.

ampharetid, with tattered tube

Record: A 126 (24, fgm).

Remarks: Most characteristic are the tattered, mucoid tubes which are much larger than the enclosed ampharetid fragments. Anterior thoracic notopodia have two kinds of setae, both long, slender and smooth; the larger are limbate subdistally and terminate in slender tips; the shorter resemble those farther back. The last thoracic setiger has two kinds of notosetae; a larger

kind, in superior position, is geniculate, and shorter, slenderer setae are present in the inferior end of the fascicle. Thoracic uncini are short, thick, avicular, and have many teeth in transverse rows.

Distribution: Abyssal depth, 3806 m.

ampharetids

Records: Ch 89 (60); Ch 105B (32); Ch 87 (50); A 73 (63); GH 3 (2, fgm); A 66 (61); A 72 (37); A 64 (48); A 63 (8); A 65 (fgm); A 71 (fgm); A 95 (fgm); A 126 (ca 200); A 69 (4, fgm); A 70 (3); A 109 (6); KK 4 (1); A 121 (28, fgm); A 125 (41); A 122 (6); A 123 (fgm); Ch 100 (20); Ch 80 (3, fgm); Ch 99 (3); Ch 83 (14); A 93 (17); Ch 81 (6, fgm); A 155 (20).

Distribution: Slope and abyssal depths, 196 to 5042 m.

Family TEREBELLIDAE

Key to Subfamilies

1. Anterior end modified as a large proboscis . . . ARTACAMINAE
1. Anterior end not modified into a proboscis 2
2. Neuropodia reduced or absent; branchiae absent
 POLYCIRRINAE
2. Neuropodia normally developed; branchiae present or absent
 3
3. Uncini in double rows on some thoracic segments
 AMPHITRITINAE
3. Uncini in single rows throughout THELEPINAE

Subfamily AMPHITRITINAE Hessle, 1917

Genus Leaena Malmgren, 1865Leaena minima Hartman, 1965, emended

Leaena collaris minima Hartman, 1965, p. 225.

New Records: Ch 87 (126); A 72 (10, fgm).

Description: The body is long and linear; it measures about 17.5 mm long and 0.8 mm wide and consists of 17 thoracic and up to 38 abdominal segments, or about 55 in all. The first three segments are smooth rings; the second and third have slightly developed or hardly visible lateral lappets; branchiae and eyes are absent. The first and second setigerous fascicles are smaller than those farther back. Uncini are first present from the second setiger; they occur in single rows in the first six segments, then in double rows to the end of the thorax.

The body is noticeably slenderer in abdominal segments, which tend to be irregularly coiled. Setigers 3 to 11 have ventral scutes. The prostomium is broadly crescentic, plain, rounded in front and elevated in its posterior half. The first segment is a complete elevated ring; its dorsal half has the attached eight or nine tentacular cirri, inserted in a transverse row; its ventral half forms the smooth, short, lower lip.

Thoracic notosetae are in slightly transverse tufts; they include longer and shorter limbate setae, with smooth margins. Thoracic uncini are avicular; each has a large fang surmounted by several rows of small teeth. Abdominal segments are longer than wide; their parapodia are located at the posterior end of the segment. The pygidium is a short ring with ventroterminal anal pore, bounded by fleshy crenulations. The tube consists of a mud-covered sheath which closely surrounds the specimen. Ova

are present in many individuals, limited to thoracic segments; the largest measure about 0.1 mm across.

Leaena minima was first considered a subspecies of L. collaris Hessle (1917, p. 198) from South Georgia, in southern latitudes. It is elevated to specific rank because it lacks the conspicuous lateral lappets on setigers 3 to 5 which characterize L. collaris. L. minima differs from L. ebranchiata (Sars, 1865) in having 17, instead of 10, thoracic setigers, and from L. caeca Hartman (1960, p. 161), from southern California, which has 16 thoracic setigers.

Distribution: Slope and abyssal depths, 1102 to 2864 m.

Leaena sp.

New Record: A 95 (2, fgm).

Distribution: Abyssal depth, 3753 m.

Pista cristata (Müller, 1776)

Pista ?cristata Hartman, 1965, p. 225.

New Record: Ch 105B (1).

Depth: Slope depth, 530 m.

Subfamily ARTACAMINAE Chamberlin, 1919

Genus Artacama Malmgren, 1866

Artacama globosa, new species

(Plate 28, Figs. a-e)

Record: Ch 87 (1).

Description: The single specimen is in four pieces; total length is about 34 mm; width in the anterior proboscidial or widest part is 7 mm, and in the thorax 3.6 mm. The thorax consists of 14 and the abdomen of 23 setigers; the body tapers in

far posterior segments to a narrow pygidial end; the last ten segments are successively shorter and appear crowded.

The prostomium is a small, bilobed arched structure, with the small oral aperture immediately below it. Each half is U-shaped. The tentacular cirri are attached on a pair of thick peristomial folds or pads behind the prostomium; a few tentacles which remain attached are short, slender and smooth (Fig. b). The enormous proboscis (Fig. a) extends forward in front as a thick, oval pouch and terminates in a papillated cone; its surface is covered overall with minute papillae arranged in widely spaced longitudinal rows.

Branchiae number three pairs and are inserted on the second, third, and fourth segments; each is a tuft of short lobes; the two of a pair are widely separated medially. The third segment has a pair of papillar nephridiopores in line with the more posterior notopodia; similar ones are visible on setigers 3 to 6, between notosetae and uncinial ridges. Uncini are first present from the second setiger; they are in linear series throughout. Each uncinus is a thick, compact avicular hook with large fang surmounted by several rows of much smaller teeth (Figs. d, e). The posterior end tapers to a terminal pygidium (Fig. c).

Artacama globosa differs from most other species of the genus in having inconspicuous papillae on the proboscis. A. zebuensis McIntosh, 1885, from the Phillipine Islands, also has small papillae, but they are dispersed instead of in linear series. A. canadensis McIntosh (1915, p. 52), from the Gulf of St. Lawrence, eastern Canada, has a thorax with 17, instead of 14, segments, and the proboscis is coarsely papillated.

Distribution: Slope depth, 1102 m.

Subfamily POLYCIRRINAE Hessle, 1917

Key to Genera

- Notosetae well developed; neuropodia present in posterior thoracic segments; uncini are wedge-shaped . . . Polycirrus
- Notosetae poorly developed; neuropodia absent or present only in posterior segments; neurosetae are simple, pointed spines . Amaeana

Amaeana trilobata (Sars, 1863)

Amaea trilobata Wollebaek, 1912, p. 76, pl. 17.

Record: A 63 (fgm).

Remarks: An anterior end is pale brownish violet; it measures 5.2 mm long by 1.8 mm wide and consists of 10 thoracic segments. The midventrum has a uniformly narrow raised longitudinal ridge; there is no indication of ventral pads or of neuropodial development. Notopodia are long, slender lobes through which the slender notosetae extend. The first seven pairs of lobes are longest, and thereafter they diminish in length. Uncini are absent.

A specimen from Sta. D 1, earlier reported (Hartman, 1965, p. 224) as Amaeana trilobata, is here referred to Polycirrus medusa, below.

Distribution: Abyssal depth, 2891 m.

Amaeana sp.

Record: Ch 33 (1).

Diagnosis: A complete individual is 20 mm long by 3.2 mm wide in the anterior thoracic region; it consists of eleven thoracic setigers, followed by a long, abdominal region without setae, then by five abdominal setigers, succeeded immediately by

a blunt pygidium with terminal pore. The first three notopodia have long, slender lobes through which the setae project; thereafter the lobes are short. Neuropodia are absent. A narrow, slightly raised ridge extends along the neural groove. Thoracic ventral pads are absent. Parapodia 4 through 9 have tumid, wide-open nephridial pores located in front of notopodial bases.

This specimen has eleven thoracic setigers instead of the ten characteristic of A. trilobata (see above); in this respect it agrees with Amaeana antipoda Augener (1926, p. 241) from New Zealand.

Distribution: Equatorial zone, off Dutch Guiana, 520-550 m.

Genus Polycirrus Grube, 1850

Polycirrus albicans (Malmgren, 1865)

Polycirrus albicans Hesse, 1917, p. 223.

Record: Ch 105B (7).

Remarks: Ventral thoracic plaques are obscure. Setae are present from segment 2; uncini are absent from the first 13 or 14 setigers, and then nowhere conspicuous. Setae are narrowly limbate and smooth along the cutting edge. Nephridia are present on segments 3 to 11 and inconspicuous.

Distribution: Slope depth, 530 m; off Greenland and in Arctic Ocean, in deep water.

Polycirrus medusa Grube, 1855

Polycirrus medusa Hartman, 1965, p. 226.

Amaeana trilobata Hartman, 1965, p. 224 (only for Sta. D 1).

New Records: D 1 (1); Ch 87 (fgm).

Remarks: Ventral pads of the first three segments are broadly fused to form a short, broad pad; others are medially

separated.

Distribution: Off New England, shelf and slope depths; Arctic to Mediterranean latitudes, in shallow to moderate depths.

Subfamily THELEPINAE Hessle, 1917

The THELEPINAE differ from other TEREBELLIDAE in having thoracic uncini in single rows on all segments or totally lacking. The body is long, linear, consists of a variable number of thoracic and a large number of abdominal segments.

Genus Euthelepus McIntosh, 1885

Type E. setubalensis McIntosh, 1885

The genotype has a long, linear body with about 20 thoracic and many abdominal setigers. Peristomial tentacles are long, grooved, smooth or marginally crenulated. The buccal segment is dorsally frilled and ventrally has a median scute. More posterior scutes occur on 12 segments. Branchiae number one to three pairs and resemble those of the AMPHARETIDAE; each of the branchial segments has a small notosetal fascicle. Neuropodial uncini are first present from the fourth setiger; uncini have an oval base and a large fang surmounted by two or more smaller teeth.

The definition was extended by Caullery (1944, p. 182) to include species with a varying number of branchiae. The tube is mucoid, externally bristled due to the incorporation of needle-like sponge spicules.

Euthelepus abranchiatus, new species

(Plate 28, Figs. f-i)

Record: Ch 103 (3, TYPE).

Description: Length of a nearly complete specimen is 27 mm; width in the thorax or widest part is 3 mm. The body consists of 29 thoracic and about 50 abdominal setigers. All segments are uniannulate, wider than long, cylindrical and smooth. Ventral scutes are obscurely present on the first nine setigers, as slightly elevated bands across the midventrum. Branchiae and lateral lobes are absent. The peristomium is a short, broad segment to which the long, smooth tentacles are attached. The next two segments are setigerous, with the fascicles increasing in size. Transverse rows of uncini are first present from setiger 3, and continue posteriorly through setiger 27; all are in single rows, numbering 50 to 60 in a series in midthoracic segments. Each uncinus consists of a flat, long oval plate with a large fang surmounted by two or three smaller teeth (Fig. f) in a transverse row, or the median (Fig. g) tooth is uppermost. Noto-setae are of two kinds, all slightly limbate, distally pointed and slightly curved distally; the anterior, shorter (Fig. h) ones alternate with similar, longer (Fig. i) ones. At their greatest development they are arranged in oblique series. A small nephridial papilla is visible on the first uncinigerous segment.

Except for the absence of branchiae, these characters ally the species with Euthelepus. The tube is mucoid, translucent and lightly covered with orbicular foraminiferans and small sand grains. The species differs from others of the genus in lacking branchiae.

Distribution: Abyssal depth, 2022 m.

Euthelepus atlanticus, new species

(Plate 29, Figs. a-d)

Record: A 73 (1454+, TYPE).

Description: The numerous individuals are uniformly small,

long, linear; some are encased in tubes which adhere closely to the much shorter occupant. Length of the body is 11 to 25 mm, width 0.8 to 1 mm, and setigers include about 13 thoracic and 30 to 40 abdominal segments. The anterior end is conspicuous for the spiraled mass of peristomial tentacles and the equally long branchiae, directed forward in line with the axis of the body (Fig. a). The first 12 setigers are short and annulate; the next four are longer, cylindrical; they are followed by a median, flaccid region in which segmental lines are obscure, and the body wall very thin; the posterior region consists of about 16 segments which decrease in length posteriorly. The pygidium is terminal and lacks appendages (Fig. b).

The peristomium is a smooth ring to which the long, smooth tentacles are attached. The next two segments are complete, each with a pair of long, cirriform branchiae; the anterior pair is inserted nearer together than the posterior pair. Eyes and lateral lobes are absent. The first visible setiger is the second branchial segment. Parapodia are small, papillar, immediately behind the bases of the outer branchiae; the fascicle consists of about three simple setae, each thickest at the base and terminating distally in a slender, curved tip (Fig. c). Parapodia increase in size farther back to the fourth setiger. All notosetae are smooth and taper distally. Uncini are first present from setiger 3 and continue through setiger 13. Each uncus has a long, oval base and a large fang surmounted by many small teeth in several rows to form a crest (Fig. d).

The median, flaccid region which separates thoracic from abdominal segments may be as long as the first region, but its segmental lines are so obscured as to make segmental counts difficult. Tubes are long, cylindrical and much longer than the animal within; they have a mucoid, translucent inner sheath and

are externally covered by shelly debris or orbicular foraminiferae attached on edge; tubes are easily torn.

E. atlanticus differs from E. abranchiatus (above) in having branchiae. It differs from E. setubalensis McIntosh in having two, instead of three, pairs of branchiae, and 13, instead of 20, thoracic setigers. It differs from E. tenuis (Verrill, 1901, p. 662), named from Bermuda as Protothelepus tenuis, in having two pairs of branchiae; the latter has at least 17 thoracic setigers, and peristomial tentacles are marginally crenulated.

Distribution: Slope depths, 1470-1330 m.

terebellid, abranchiate

Record: A 118 (1).

Diagnosis: A cylindrical, externally bristly tube contains a small, ovigerous individual measuring 3.25 mm long by 0.26 mm wide. It consists of peristomium, 14 thoracic and 5 abdominal setigers. Branchiae are absent. The thorax is barrel-shaped, its body wall distended with numerous ova. The anterior end is plain and has inconspicuous parapodia. Notosetae are few in a fascicle, and each is laterally coarsely serrated. Uncini are first present from the third setiger, and continue on 12 thoracic setigers; they are avicular. The specimen may represent an unknown genus and species, characterized by its low setigerous count and the fact that its notosetae are coarsely serrated.

Distribution: Bermuda rise, 1135-1153 m.

terebellids

Records: Ch 105B (29, jv); A 73 (fgm); Ch 103 (fgm); GH 4 (1); A 62 (fgm); GH 1 (1); A 95 (2, jv); A 125 (1); LL 1 (1); ?A 118 (100).

Remarks: Most specimens are fragments or juveniles. One

lot from Sta. A 118 may represent specimens of Euthelepus (above). Another one, from Sta. A 125, lacks branchiae and has peristomial eyespots; the thorax consists of 17 setigers, of which the last four are constricted; the tube is covered with silt.

Distribution: Slope and abyssal depths, 530 to 4977 m.

Family TRICHOBRANCHIDAE

Filibranchus sp.

Record: Ch 105B (1).

Distribution: Slope depth, 530 m.

Terebellides lobatus, new species

(Plate 30, Figs. a-f)

Records: A 73 (19); A 66 (7); A 64 (2); A 121 (3); A 125 (3); A 122 (9); A 124 (3); A 93 (14, TYPE); ?Ch 33 (9); ?Ch 12 (1).

Description: Length of a complete individual is 30 mm, of which the abdomen accounts for 9 mm; width is 3.5 to 4 mm, and segments include 18 thoracic and up to 27 abdominal setigers. The body is broadest in the thorax and tapers in the abdomen to a bluntly rounded pygidium. Segmental lines are obscure except in anterior thoracic segments. The prostomium is a broad, flat lobe extending laterally and frontally as a thin flange which overhangs the oral aperture (Fig. a); it is prolonged laterally as a pair of auricular lobes. Eyes or other color marks are lacking. A pair of raised nuchal organs is visible at the postmedian border of the prostomium.

The peristomium is enlarged as a conspicuous tentacular membrane; it is marginally folded and involuted, and has many short,

slender tentacles attached to its posterior side. This segment extends about the ventrum to form the lower lip. The second segment bears the single, long-stalked median branchia on a slender stem, and terminates in four equally long, well-separated lobes; each is transversely ridged into folds on the upper or exposed side (Fig. b). This segment is laterally reduced and is the first setigerous, represented by a small, short fascicle of pointed setae; a minute nephridial papilla is visible above the notopodium. The next segment is the second setigerous, and it resembles the first except that it is larger. The third setiger is laterally extended as a pair of broad lobes which extend across the midventrum as an anterior collarlike membrane; its setal fascicles are larger than those of the first two pairs, and it has a smaller superior and a larger inferior nephridial papilla above the notopodium.

The fourth setiger is as large as the second and on a level with it; it forms a thin, ventrolateral lappet and continues across the midventrum as a collarlike membrane; it lacks nephridial papillae. The fifth setiger is elevated above those in front; it lacks lateral lappets or there is a very short pair. The sixth setiger has a normal notosetal fascicle of long, distally pointed setae, and a neuropodial fascicle of five or six geniculate neurosetae, with each one distally pointed and bent (Fig. c).

The seventh setiger is the first with uncini; they occur in a short series of six to eight in a row, immediately below the notopodium; similar short series of uncini occur through the next few segments, and then longer series, to the end of the thorax. Each uncinus is long-handled, terminates in a large fang with many smaller superior teeth (Fig. d).

Abdominal parapodia are small, widely spaced, with rounded

tori, each with a single row of avicular uncini. Each uncinus has a large fang and a circlet of smaller curved teeth (Figs. e, f).

Terebellides lobatus is characterized by its conspicuous development of lateral lappets on the third and fourth setigerous segments. The single branchia is quadripartite, with the divisions separated to the base.

Two lots from the equatorial region, Sta. Ch 12 and Sta. Ch 33, differ from T. lobatus as described above, in the following respects: Length attains 83 mm and the body consists of 17 thoracic and about 64 abdominal segments; it is thus notably larger than T. lobatus. Branchiae are inserted on a median stalk and have four branches which are free from one another. Lateral lappets occur on the first four setigers and are reduced to low ridges farther back. The first five setigers have notosetae only; the next one has geniculate neurosetae, and thereafter neuropodia have long-handled uncini. The anteriormost five setigers have a transverse fleshy ridge across the dorsum, between parapodial bases; this is replaced by a thick welt across the dorsum of the ninth setiger. Thereafter the dorsum is smooth, lacks segmental furrows. Large nephridial papillae occur on the first three setigers, and much smaller ones at the upper bases of the last 11 thoracic segments, in some specimens.

These specimens differ from T. lobatus in having thick welts across the ninth and less conspicuous ridges across more anterior segments. In other respects they agree with it.

Distribution: Slope and abyssal depths, in 1330-5007 m; equatorial region, 520-550 m.

Terebellides stroemii Sars, 1835

Terebellides stroemii Hartman, 1965, p. 227.

New Records: Ch 89 (53); Ch 105B (34); Ch 87 (124); A 66 (2).

Distribution: Slope and abyssal depths, 196 to 2802 m.

Terebellides sp.

Terebellides stroemii Hartman, 1965, p. 277 (in part).

New Records: A 58 (2); Ch 103 (11); A 72 (5); A 63 (3); Ch 84 (4); A 123 (2, fgm); Ch 100 (5); Ch 80 (2); Ch 83 (1); A 120 (3); Be 1 (1).

Distribution: Abyssal depths, 2000 to 5023 m.

Trichobranchus americanus Hartman, 1965

Trichobranchus americanus Hartman, 1965, p. 228, pl. 49.

New Record: Ch 105B (5).

Distribution: Slope depth, 530 m.

Unobranchus abyssalis Hartman, 1965

(Plate 31, Figs. a-e)

Unobranchus abyssalis Hartman, 1965, p. 229, pl. 50.

New Records: A 121 (2); Ch 100 (1); A 93 (1); A 120 (3).

Diagnosis: Length of 17 thoracic setigers is 6.5 mm; width about 1.1 mm. The first 15 setigers are short and crowded; the next two are longer and thin-walled. Notosetae occur in stiff, erect fascicles in setigers 4 to 14. The peristomium is modified as a large, thin fold across the midventrum; it is medially somewhat incised (Figs. a, b). The oral aperture is small, between this large membrane and the base of the tentacular membrane. The second segment carries the single branchia middorsally (Fig. c); it is continued across the ventrum as a fleshy pad, then obliquely forward at the sides to join the branchial segment dorsally. The third segment forms the conspicuous pouched sac

ventrally; it is crenulated at its free edge, where it is recurved; this is the first setiger; the setae are small, embedded, in lateral fascicles; they resemble those of the second setiger. Thereafter notosetae are in erect, long, stiff fascicles.

Distribution: Abyssal depths, 4800 to 5023 m.

trichobranchids

trichobranchid, Hartman, 1965, p. 230.

New Records: A 66 (fgm); A 122 (fgm); Ch 83 (1); A 155 (3).

Distribution: Abyssal depths, 2802 to 5000 m; equatorial region, 4825 m.

Family SABELLIDAE

Genus Chone Kröyer, 1856

Chone sp.

Records: Ch 105B (29); Ch 87 (fgm); A 58 (1).

Distribution: Slope depths, 530 to 2000 m.

Euchone incolor Hartman, 1965

Euchone incolor Hartman, 1965, p. 231, pl. 51.

New Records: Ch 89 (14); Ch 105B (76); Ch 87 (555); A 73 (147); ?Ch 100 (1); ?A 155 (1).

Remarks: A ciliary band surrounds the third abdominal segment. The anal funnel occupies the last three setigers.

Distribution: Slope and abyssal depths, 196 to 4892 m.

Euchone spp.

Euchone spp., Hartman, 1965, p. 232.

New Records: A 58 (4); Ch 103 (12); A 71 (1); A 95 (1).

Distribution: Abyssal depths, 2000 to 3753 m.

Jasmineira bermudensis Hartman, 1965

Jasmineira bermudensis Hartman, 1965, p. 233, pl. 52.

Remarks: Reverse legends for Figs. c and e of Plate 52 (Hartman, 1965, p. 233).

Jasmineira filiformis Hartman, 1965

Jasmineira filiformis Hartman, 1965, p. 233, pl. 52.

New Record: Ch 87 (56).

Diagnosis: The tentacular crown consists of three pairs of very long radioles, each with many long pinnules. The thoracic collar is oblique, with short, pointed dorsal lobes and much longer, pointed ventral lobes. A ciliary band crosses the body behind the second setigerous fascicle. The collar leaves the peristomium exposed. Five ventral scutes cross the thoracic ventrum; each is biannulated. The last four setigers are short, and the pygidial pore is middorsal, in the last setiger; this is followed by a posterior triangular flap. Ova are large, number one or two in a segment, and occur only in abdominal segments. The tube is smooth, gray, cylindrical, ornamented with scattered white orbicular foraminiferans.

Distribution: Slope depth, 1102 m.

Jasmineira sp.

Record: Ch 100 (16).

Distribution: Abyssal depths, 4743-4892 m.

Potamethus singularis Hartman, 1965

Potamethus singularis Hartman, 1965, p. 234, pl. 52.

New Records: Ch 87 (57); A 73 (36); A 93 (2); A 120 (7).

Remarks: Specimens from greatest depths have ventral collar

lobes greatly prolonged, resembling the ears of a rabbit. Length of body is at most 8 mm, width about 0.4 mm, and setigers include 8 thoracic and 25 abdominal segments. Thoracic uncini are long-handled, as is typical of the genus.

Distribution: Slope and abyssal depths, 196 to 5023 m.

sabellids

sabellids, Hartman, 1965, p. 235.

New Records: A 95 (22); A 70 (fgm); Ch 100 (2, fgm); A 93 (2); A 118 (3); A 119 (1); A 155 (2).

Remarks: Most are fragments, juveniles, or otherwise indeterminable.

Distribution: Abyssal depths, to 3753 m; Bermuda rise, 1135 to 2223 m; equatorial region, 4825 m.

Family SERPULIDAE

Subfamily SERPULINAE MacLeay

Genus Vermiliopsis Saint-Joseph, 1894

Vermiliopsis ?langerhansi Fauvel, 1909

Vermiliopsis langerhansi Fauvel, 1909, p. 61.

Record: Ch 103 (5).

Remarks: The white, calcareous tube is fully attached to a hard surface. The operculum consists of a simple, cylindrical stalk topped by a translucent ampule with a flat top, circular in full view and calcareous; it lacks ornamentation.

Distribution: Abyssal depth, 2022 m; off Azores, 4020 m.

Subfamily FILOGRANINAE Rioja

Filogranula ?gracilis Langerhans, 1884

Filogranula gracilis Langerhans, 1884, p. 282, fig. 47.

Record: A 118 (2).

Remarks: The slender tubes are white, calcareous, fully attached to dead coral. The exposed length has high ridges which are closely dentate from end to end. The distal end of the tube is stellate, with 7 equally long serrations; the lumen is cylindrical, as shown by Langerhans (1884, fig. 47). The operculum has a horny funnel with closely spaced, small marginal crenulations, on a cylindrical stalk that lacks basal barbules.

Distribution: Bermuda rise, 1135-1153 m; off Madeira.

?Filogranula spp.

Records: Ch 85 (66, and tubes); Ch 100 (1); A 155 (1).

Remarks: Long, straight tubes, from Sta. Ch 85, are square in cross section, externally smooth and have a cylindrical lumen. The small, slender body measures less than 10 mm long, consists of 5 thoracic and 30 to 40 abdominal setigers; the crown consists of four or five pairs of radioles, of which the dorsalmost is modified as an operculum, with thick, fleshy stalk and sparse numbers of barbules limited to its ventrobasal part. The opercular disk is circular, infundibular, lightly chitinized and minutely crenulated at its margin. The collar segment is the longest; it has simple collar setae, and the last four setigers are uncinigerous. Abdominal segments are short and crowded.

Distribution: Abyssal depths, 3834 to 4892 m; equatorial region, 4825 m.

Genus Spirodiscus Fauvel, 1909

Spirodiscus is transferred from the subfamily SERPULINAE to the FILOGRANINAE because the opercular stalk has barbules.

Spirodiscus grimaldii Fauvel, 1909

Spirodiscus grimaldii Fauvel, 1914, p. 335, pl. 29, figs. 7-21.

Records: ?Ch 100 (tube); A 118 (2); A 119 (10).

Diagnosis: All are small, come from slender calcareous tubes which are basally coiled sinistrally, then straight, erect, or the tube may be angular along a part of its length. The enclosed specimens measure about 1.5 mm long by 0.14 mm wide; they consist of four thoracic and 9 or 10 abdominal segments. The opercular stalk is unique; it is erect, rising as one of the dorsalmost radioles, with a few barbules on its basal half; then smooth and cylindrical to rise beyond the pinnules, and terminate in a structure resembling a small spool with larger base and smaller distal disk. The thoracic collar is voluminous. Thoracic setae are limbate, and abdominal setae are geniculate. Uncini are platelike and have many marginal teeth. The first thoracic setiger has simple, capillary setae, and the next three (or to five) have limbate notosetae and uncini.

Distribution: Bermuda rise, 1135-2223 m; questionably equatorial region, 4743-4892 m; off Azores, 1846-1900 m.

Subfamily SPIORBINAE Chamberlin

spirorbid, with dextral tube

Record: A 121 (1).

Distribution: Abyssal depth, 4800 m.

spirorbids, with opercular incubation

Records: A 125 (2); A 124 (2).

Distribution: Abyssal depths, 4825 and 4862 m.

serpulids

Records: A 58 (6); A 119 (1); A 155 (2).

Remarks: The specimens from Sta. A 58 lack opercula; one occupies a longitudinally ridged tube, another a cylindrical tube. Specimens from Sta. A 155 occupy tubes of two kinds. One is 5-keeled with a cylindrical lumen; a detached operculum has a long, slender stalk terminating in a flattened disk. Another is in a thin-walled tube; the operculum consists of a slender stalk surmounted by a hemispherical vesicle. Some of the specimens agree fully with Serpula quadrangularis Fauvel (1914, p. 339, pl. 29).

Distribution: Northwest Atlantic Ocean and Bermuda rise, in 2000 to 2223 m; equatorial region, in 4825 m. ~~3730 - 3783 m~~

CHARACTERISTICS OF THE ABYSSAL POLYCHAETES FROM THE NORTHWEST ATLANTIC OCEAN

The single most conspicuous feature of the abyssal polychaetes from the northwest Atlantic Ocean is the uniformly small size and the reduced number of body segments at maturity, as compared with their shallow water relatives. The body tends to be linear, plain; parapodia are reduced to small, papillar elevations, with little lamellar development, and armed with smooth, capillary setae which are rarely coarsely serrated or spinose along their free lengths. They lack the highly characteristic modifications uniquely developed in shallow water species.

Most species have muted colors if any, or the body is trans-

lucent to dusky or black, with no visible pattern. Surface or epithelial modifications are rare. Polynoid elytra and cirri tend to be smooth, fragile, dehiscent, and seldom ornate; they are generally surpassed by the long, hairlike setae directed laterally; in littoral forms the elytra are often tough, ornate, and may completely cover the setae. Flabelligerids in shallow water habitats are typically spinous and richly papillated; in deep bottoms they have smooth or lightly papillated surfaces, or are thickly covered with ooze over surface papillae, as in Ilyphaqus. Phyllodocids known from shallow depths for their beautiful, iridescent coloration, their leaflike cirri and often sinuous body, lack these conspicuous features in deep water but retain the cephalisation patterns of their better known relatives. In many abyssal polychaetes the muscular system is so reduced that the body is flaccid, thin-walled; the strongest muscles are in the anterior or masticatory region and in the posterior end, involved in the movements through tubes or burrows and the expulsion of waste products.

Many species, both errant and sedentary, are tubicolous, occupying tubes which may be several times as long as the occupant; they are frequently externally covered with silt or ooze, and may have attached orbicular foraminiferans, bits of pteropod shells, or sponge spicules. The tube may be lined with a thin to thick mucoid sheath, which is particularly thick in some flabelligerids and tough in some oweniids, so that it is difficult to tear.

Cephalic eyes are absent, reduced in size or variable in occurrence; they are usually small dark pigment spots on the prostomium, or sometimes lenticulated (some nereids). The prostomium tends to be reduced to a simple lobe projecting over the oral aperture, or its frontal margin may have simple antennae.

In some scalibregmids and flabelligerids, the characteristic cephalic structures have been lost (Fauveliopsis and Neolipobranchius). Strong family characters, such as the areolation or longitudinal striations of the scalibregmid epithelium, the typical crenulated and furcate setae of orbiniid notopodia, the rostrate bearded uncini of maldanids, and the unique hooded setae of spionids, are deep-rooted features and can be identified even though specimens are fragmented and incomplete.

Gut contents are difficult to assess for feeding groups, because the alimentary tract is often empty or contains only oozy debris after animals are recovered from great depths. It may be anticipated that polychaetes are diversified in their trophic requirements, as indicated by the kinds of oesophageal structures. Among the 56 families represented in this deep water fauna, some have a muscular pharynx with jaw pieces, suggesting that they are predators or carnivores. Others have an unarmed epithelial pouch characteristic of deposit feeders, and some have a ciliary oral apparatus found in filter feeders. The problem of available food supplies for diversified feeding groups in deep bottoms, despite man's concern over the lack of primary (plant) foods, distance from continents, seeming sparsity of living things, and adverse biological conditions, has been solved by the animals themselves, as evidenced by the fact that they are not only present, but are highly diversified and relatively abundant in all sampled depths.

Reproductive stages are indicated by the presence of mature ova in the coelom, or by ova attached to parapodia, as in some EXOGONINAE. Occurrences of advanced stages have been noted under the specific descriptions of the species. Reproduction may proceed throughout the year for some species, shown by the presence of stages ranging from chaetosphaere larvae to young and to

reproductive individuals.

One of the most conspicuous facts is the preponderance of many species in some families which have few representatives in the better known shallow sea bottoms. This is illustrated in the lists of species and genera; the family AMPHARETIDAE is represented by 15 genera, PARAONIDAE, SCALIBREGMIDAE, and FLABELLIGERIDAE by seven genera each, and the rare TRICHOBRANCHIDAE by four genera. Other unusual occurrences are species in genera which are typically recovered from shallow depths; such are species in the families PISIONIDAE, CTENODRILIDAE, NEREIDAE, and PHYLLODOCIDAE.

The theory of a highly endemic abyssal fauna in the north-west Atlantic Ocean is substantiated anew as more collections are taken from approximately the same or adjacent areas as those reported on in 1965. The new collections add considerably to kinds of species, and seldom duplicate those from previous finds, indicating that these faunas are still poorly known.

The CHARTS, below, illustrate another significant fact concerning most species in abyssal depths; they have a broad vertical range into deep slope, but not shelf, depths. Relatively few species are limited to one or a few locations (but see RARE SPECIES, below). However, most species attain a maximum development and abundance-pattern at few places, as shown in the CHARTS, where numbers of individuals from each depth class are given. This pattern of abundance may be determined not so much by actual depth as by other factors, such as availability of suitable foods and lack of predators. This is demonstrated by the presence of the highly diversified, abundant fauna along the axis of the Gulf Stream, for example Sta. A 95 and Sta. A 126, as compared with the sparse or impoverished fauna under the northern end of the Sargasso Sea, as in examples from areas at Stations KK, LL, MM.

THE MOST ABUNDANT SPECIES

The 50 most abundant species, or those represented by more than 200 specimens each, are listed in order of numerical abundance, with total numbers of specimens and the areas from which they originate. S refers to slope depths, A to abyssal depths, B to Bermuda, and E to equatorial regions; x indicates limited, c wide distribution.

| | | |
|--|--------------------------|------------|
| <u>x</u> <i>Paramphipnoma jeffreysii</i> | with 6105 specimens from | S, A, B, E |
| <u>x</u> <i>Paraonis reductus</i> | 1897 | S, A, E |
| <u>c</u> <i>Prionospio steenstrupi</i> | 1803 | S, A |
| <u>c</u> <i>Lumbrineris latreilli</i> | 1670 | S, A, B |
| <u>x</u> <i>Euthelepus atlanticus</i> | 1454 | S |
| <u>x</u> <i>Glycera mimica</i> | 1408 | S, A, B, E |
| <u>c</u> <i>Spiophanes kroyeri</i> | 1262 | S, A, B, E |
| <u>x</u> <i>Euchone incolor</i> | 1234 | S, A, B, E |
| <u>c</u> <i>Auchenoplax crinita</i> | 1230 | S, E |
| <u>c</u> <i>Polydora caulleryi</i> | 1168 | S |
| <u>x</u> <i>Ammotrypane abranchiata</i> | 1137 | S, A, B, E |
| <u>c</u> <i>Clymenura borealis</i> | 1068 | S, A |
| <u>c</u> <i>Lysippe labiata</i> | 1045 | S |
| <u>c</u> <i>Tharyx marioni</i> | 1037 | S, A, E |
| <u>x</u> <i>Cossura longocirrata</i> | 977 | S, A, E |
| <u>c</u> <i>Ampharete arctica</i> | 956 | S, A, E |
| <u>x</u> <i>Tharyx annulosus</i> | 836 | S, A, E |
| <u>x</u> <i>Kesun gravieri</i> | 790 | S, A, E |
| <u>c</u> <i>Exogone dispar</i> | 693 | S, A, B, E |
| <u>c</u> <i>Notomastus latericeus</i> | 686 | S, A, B, E |
| <u>c</u> <i>Aedicira belgicae</i> | 649 | S, A, B, E |
| <u>c</u> <i>Spiophanes</i> spp. | 631 | S, A, B, E |
| <u>c</u> <i>Chaetozone setosa</i> | 628 | S, A, B, E |

| | | |
|----------------------------------|------|-------------------------------|
| x <u>Ilyphaeus octobranchus</u> | with | 609 specimens from S, A, B, E |
| x <u>Aricidea tetrabranchia</u> | | 588 S, A, E |
| x <u>Fauveliopsis scabra</u> | | 549 S, A, B, E |
| c <u>Heteromastus filiformis</u> | | 543 S, A |
| x <u>Paraonis cornatus</u> | | 513 S, A |
| c <u>Prionospio cirrifera</u> | | 511 S, A, B, E |
| x <u>Nothria atlantisa</u> | | 468 S, E |
| x <u>Melinnata americana</u> | | 458 A |
| x <u>Pholoe anoculata</u> | | 455 S, A, E |
| x <u>Laonice antarcticae</u> | | 447 S, A, E |
| x <u>Amphicteis vestis</u> | | 393 S, A |
| x <u>Paraonides monilaris</u> | | 382 A, E |
| c <u>Terebellides stroemii</u> | | 377 S |
| c <u>Myriochele nr heeri</u> | | 370+ S, A |
| x <u>Langerhansia anoculata</u> | | 353 S, A, E |
| x <u>Potamethus singularis</u> | | 317 S, A |
| x <u>Paradoneis lyra</u> | | 301 S |
| x <u>Chaetozone gayheadia</u> | | 277 S |
| c <u>Laonice c irrita</u> | | 261 S, B |
| x <u>Paraonis uncinatus</u> | | 245 S, A, B |
| c <u>Lumbrineris spp.</u> | | 237 S, A, B |
| x <u>Spiophanes wigleyi</u> | | 230 S |
| x <u>Paraonides rubriceps</u> | | 223 S, A |
| c <u>Aricidea suecica</u> | | 208 S, A, E |
| x <u>Cirrophorus lyriformis</u> | | 201 S |

THE RARE SPECIES

Those species represented by few individuals or coming from one or two localities only, are regarded as rare species. They are present in all depth classes, and distributed among a wide range of families and genera.

From slope depths they include:

PHYLLODOCIDAE: Anaitides, oculate; Cirrodoce cristata; Nereis phylla antennata.

SYLLIDAE: Exogonella longipedata; Pionosyllis procera; Typosylis tegulum.

NEREIDAE: Eunereis sp.; Nicon uncinatus.

NEPHTYIDAE: Aglaophamus igalis.

nr SPIONIDAE: Aberranta enigmatica.

CTENODRILIDAE: Zeppelinia prolonga.

FLABELLIGERIDAE: Flabelligella cirrata.

CAPITELLIDAE: Leiocapitella atlantica.

AMPHARETIDAE: Sosanella apalea.

TEREBELLIDAE: Artacama globosa, Euthelepus atlanticus.

From Bermuda localities they include:

SIGALIONIDAE: Psammolyce globula; Sthenelais sp.

PEISIDICIDAE: Peisidice bermudensis.

AMPHINOMIDAE: Pareurythoe sp.

PHYLLODOCIDAE: Notalia sp.

POECILOCHAETIDAE: Poecilochaetus bermudensis.

FLABELLIGERIDAE: Flabelligera sp.

BOGUEIDAE: Boquella ornata.

AMPHARETIDAE: Muggoides cinctus.

From abyssal depths they include:

PISIONIDAE: Pisionura abyssorum.

EUPHROSINIDAE: Euphrosine sp.

PHYLLODOCIDAE: ?Anaitides, anoculate; Austrophyllophorum maculatum; phyllodocid, aberrant.

SYLLIDAE: Exogonita oculata; Exogoninae, unknown.

SPHAERODORIDAE: Ephesiopsis guayanae; Clavodorum atlanticum.

ARABELLIDAE: Haematocleptes leaenae.

ORBINIIDAE: orbiniid, unknown.

PARAONIDAE: Aparaonis abyssalis; Cirrophorus aciculatus.

SCALIBREGMIDAE: Neolipobranchius glabrus; Scalispinigera cirrata.

CAPITELLIDAE: Capitella aberranta; Leiochrides sp.

MALDANIDAE: Notoproctus abyssus.

AMPHARETIDAE: Neopaiwa cinnara; Phyllampharete longicirra.

TEREBELLIDAE: Euthelepus abranchiatus.

From equatorial regions they include:

SPHAERODORIDAE: Sphaerodoropsis elegans.

ONUPHIDAE: Rhamphobrachium agassizi.

SPIONIDAE: Nerinides nr tridentata; Prionospio delta; spionid unknown.

FLABELLIGERIDAE: Buskiella borealis.

LOCATIONS NAMED IN THIS REPORT

Arabic numbers refer to stations in the Northwest Atlantic Ocean and Equatorial regions, shown in map at end of volume; they represent the following station numbers:

| | | |
|--------------|----------------------|-------------|
| 1 = C 1 | 19 = A 119, GH | 37 = KK 4 |
| 2 = Ch 89 | 20 = A 62 | 38 = A 121 |
| 3 = Sl 2 | 21 = GH 1 | 39 = A 125 |
| 4 = Sl 3 | 22 = A 66 | 40 = A 155 |
| 5 = Sl 4 | 23 = Ch 76 | 41 = A 122 |
| 6 = D 1 | 24 = A 72 | 42 = KK 1 |
| 7 = Ch 33 | 25 = A 64 | 43 = A 124 |
| 8 = Ch 105 | 26 = A 63 | 44 = Ch 100 |
| 9 = Ch 12 | 27 = A 65 | 45 = LL 1 |
| 10 = E 3 | 28 = HH 3, A 112 | 46 = Ch 83 |
| ~ 11 = Ch 87 | 29 = A 71, II, Ch 75 | 47 = A 93 |
| 12 = A 118 | 30 = A 95 | 48 = A 120 |
| 13 = A 73 | 31 = A 126 | 29b = II 1 |
| 14 = F 1 | 32 = Ch 85 | 29c = II 2 |
| 15 = Ch 34 | 33 = JJ 1, Ch 35 | 31a = Ch 77 |
| 16 = G 1 | 34 = A 69 | 31b = Ch 78 |
| 17 = A 58 | 35 = A 70 | 33b = JJ 3 |
| 18 = Ch 103 | 36 = Ch 84 | 34a = OO 2 |

LIST OF STATION NUMBERS IN NORTHWEST ATLANTIC OCEAN
AND EQUATORIAL REGIONS, CROSS-REFERENCED TO
ARABIC NUMBERS SHOWN ON MAP

| | | |
|----------------------|----------------|------------|
| Be 1-8 = off Bermuda | Ch 76 = 23 | A 69 = 34 |
| S1 2-4 = 3-5 | Ch 77, 78 = 31 | A 70 = 35 |
| C 1 = 1 | Ch 83 = 46 | A 71 = 29 |
| D = 6 | Ch 84 = 36 | A 72 = 24 |
| E = 10 | Ch 85 = 32 | A 73 = 13 |
| F = 14 | Ch 87 = 11 | A 93 = 47 |
| G 1 = 16 | Ch 89 = 2 | A 95 = 30 |
| GH = 21 | Ch 100 = 44 | A 118 = 12 |
| HH = 28 | Ch 103 = 18 | A 119 = 19 |
| II = 29 | Ch 105 = 8 | A 120 = 48 |
| JJ = 33 | A 58 = 17 | A 121 = 38 |
| KK = 37, 42 | A 62 = 20 | A 122 = 41 |
| LL = 45 | A 63 = 26 | A 124 = 43 |
| OO = 34 | A 64 = 25 | A 125 = 39 |
| Ch 12 = 9 | A 65 = 27 | A 126 = 31 |
| Ch 33 = 7 | A 66 = 22 | A 155 = 40 |
| Ch 34 = 15 | | |

ANALYSES OF STATIONS, FROM THE NORTHWEST ATLANTIC
 OCEAN, IN SLOPE AND ABYSSAL DEPTHS, SHOWING
 ASSOCIATIONS OF SPECIES IN ALPHABETICAL ARRANGEMENT
 (see also Hartman, 1965, pp. 17-48)

Sta. Ch 89, in 196 m

| | |
|-------------------------------------|-----------------------------------|
| <u>Aqlaophamus minusculus</u> | <u>Myriochele ?pygidialis</u> |
| <u>Amage</u> sp. | <u>Neopodarke woodsholea</u> |
| <u>Ammotrypane aulogastrella</u> | <u>Nephtys nr squamosa</u> |
| <u>Ammotrypane cylindricaudatus</u> | <u>Nereiphylla paretti</u> |
| <u>Ampharete arctica</u> | <u>Nothria conchylega</u> |
| ampharetids | <u>Nothria pallidula</u> |
| <u>Amphicteis vestis</u> | <u>Notomastus</u> sp. |
| <u>Anaitides</u> , oculate | <u>Paramphinome jeffreysii</u> |
| <u>Antinoana fusca</u> | <u>Paraonis gracilis</u> |
| <u>Aricidea</u> sp. | <u>Phylo felix</u> |
| <u>Cirrodoce cristata</u> | <u>Polydora</u> sp. |
| <u>Cossura longocirrata</u> | <u>Potamethus</u> sp. |
| <u>Euchone incolor</u> | <u>Prionospio</u> sp. |
| <u>Exogone dispar</u> | <u>Progoniada regularis</u> |
| <u>Glycera</u> sp. | <u>Protomystides bidentata</u> |
| <u>Harmothoe</u> sp. | <u>Samytha sexcirttata</u> |
| <u>Laetmonice filicornis</u> | <u>Sphaerodoropsis longipalpa</u> |
| <u>Langerhansia anoculata</u> | <u>Sphaerosyllis brevifrons</u> |
| <u>Laonice</u> sp. | <u>Spiophanes kroyeri</u> |
| <u>Lumbrineris latreilli</u> | <u>Terebellides stroemii</u> |
| <u>Lysippe labiata</u> | <u>Therochaeta collarifera</u> |
| maldanids | <u>Tomopteris</u> sp. |
| <u>Microrbinia linea</u> | <u>Typosyllis tequlum</u> |

Sta. Ch 105B, in 530 m

| | |
|-------------------------------------|--|
| <u>Aedicira parva</u> | <u>Glycera</u> sp. |
| <u>Ammotrypane abranchiata</u> | <u>Heteromastus filiformis</u> |
| <u>Ammotrypane cylindricaudatus</u> | <u>Hyalinoecia tubicola</u> |
| <u>Ampharete arctica</u> | <u>Ilyphaagus octobranchus</u> |
| ampharetids | <u>Leanira minor</u> |
| <u>Amphicteis trichophora</u> | <u>Lumbriclymene</u> sp. |
| <u>Ancistrosyllis groenlandica</u> | <u>Lumbrineris latreilli</u> |
| <u>Anobothrus gracilis</u> | <u>Lumbrineris</u> nr <u>tenuis</u> |
| <u>Antinoana fusca</u> | <u>Maldane sarsi</u> |
| <u>Apistobranchus typicus</u> | maldanids |
| <u>Asychis biceps</u> | <u>Myriochele</u> ? <u>pygidialis</u> |
| <u>Auchenoplax crinita</u> | <u>Neopodarke woodsholea</u> |
| <u>Brada villosa</u> | <u>Nothria conchylega</u> |
| <u>Braniella pupa</u> | <u>Nothria pallidula</u> |
| <u>Ceratocephale loveni</u> | <u>Paramphinome jeffreysii</u> |
| <u>Chaetozone gayheadia</u> | <u>Paraonis cornatus</u> |
| <u>Chaetozone setosa</u> | <u>Paraonis gracilis</u> |
| <u>Chone</u> sp. | <u>Paraonis uncinatus</u> |
| <u>Clymenura borealis</u> | <u>Phylo felix</u> |
| <u>Cossura longocirrata</u> | <u>Pista cristata</u> |
| <u>Disoma watsoni</u> | <u>Polycirrus albicans</u> |
| <u>Dorvillea rudolphi anomolata</u> | <u>Prionospio cirrifera</u> |
| <u>Drilonereis</u> sp. | <u>Protodorvillea minuta</u> |
| <u>Euchone incolor</u> | <u>Pseudomystides limbata punctata</u> |
| <u>Eulalia anomolata</u> | <u>Pseudoscalibregma parva</u> |
| ? <u>Eumida</u> sp. | <u>Sphaerodoropsis corrugata</u> |
| <u>Exogone dispar</u> | <u>Sphaerosyllis brevifrons</u> |
| <u>Fauveliopsis scabra</u> | <u>Spiophanes kroyeri</u> |
| <u>Filibranchus</u> sp. | <u>Terebellides stroemii</u> |
| <u>Flabelligella cirrata</u> | <u>Tharyx annulosus</u> |

Tharyx spp.*Trichobranchus americanus**Therochaeta collarifera*

Sta. Ch 87, in 1102 m

*Aedicira belgicae**Eunice norvegica**Aedicira parva**Exogone dispar**Aglaophamus groenlandiae**Fauveliopsis scabra**Amage* sp.*Glycera mimica**Ammotrypane abranchiata**Glyphanostomum pallescens**Ammotrypane cylindricaudatus**Goniada norvegica*

ampharetids

*Haematocleptes leaenae**Amphicteis* sp.*Heteromastus filiformis**Ancistrosyllis groenlandica**Hyalinoecia* sp.*Anobothrus gracilis**Ilyphagus octobranchus*✓*Antinoana fusca**Jasmineira filiformis**Aricidea neosuecica**Kesun gravieri**Aricidea tetrabranchia**Langerhansia anomolata**Artacama globosa**Laonice antarcticae**Asychis biceps**Leanira minor**Califia schmitti**Lumbrineris crassicephala**Ceratocephale loveni**Lumbrineris fragilis**Chaetozone gayheadia**Lumbrineris latreilli**Chone* sp.*Lumbrineris* nr *tenuis**Clymenura borealis**Lumbrineris* sp.*Cossura longocirrata**Lysippe labiata*✓*Disoma watsoni**Maldane sarsi**Dorvillea rudolphi* *anoculata*

maldanids

Ephesiella macrocirris

melinnid

*Euchone incolor**Myriochele ?pygidialis**Eulalia anoculata**Namalycastis profundus*?Eumida sp.*Neopodarke woodsholea*

| | |
|--------------------------------|--|
| <u>Ninoe brevipes</u> | <u>Potamethus singularis</u> |
| <u>Ninoe dibranchia</u> | <u>Praxillella gracilis</u> |
| <u>Notomastus latericeus</u> | <u>Prionospio ehlersi</u> |
| <u>Notomastus teres</u> | <u>Prionospio sp.</u> |
| <u>Notomastus sp.</u> | <u>Pseudomystides limbata punctata</u> |
| <u>Paramphinoe jeffreysii</u> | <u>Pseudoscalibregma parva</u> |
| <u>Paranaitis wahlbergi</u> | <u>Samytha sexcinnata</u> |
| <u>Paraonides rubriceps</u> | <u>Scoloplos sp.</u> |
| <u>Paraonis gracilis</u> | <u>Sigambra tentaculata</u> |
| <u>Paraonis reductus</u> | <u>Sphaerodoropsis longipalpa</u> |
| <u>Paraonis uncinatus</u> | <u>Sphaerosyllis brevifrons</u> |
| <u>Pholoe anoculata</u> | <u>Spiophanes kroyeri</u> |
| <u>Phyllochaetopterus sp.</u> | <u>Sthenolepis tetragona</u> |
| <u>Pirakia lanceolata</u> | <u>Tharyx annulosus</u> |
| <u>Poecilochaetus fulgoris</u> | <u>Tharyx marioni</u> |
| <u>Polycirrus medusa</u> | <u>Tharyx nigrorostatum</u> |

Sta. A 73, in 1330 m

| | |
|-------------------------------------|-------------------------------------|
| <u>Aedicira belgicae</u> | <u>Aricidea tetrabranchia</u> |
| <u>Aedicira parva</u> | <u>Califia schmitti</u> |
| <u>Aglaophamus groenlandiae</u> | <u>Clymenura borealis</u> |
| <u>Ammotrypane abranchiata</u> | <u>Cossura longocirrata</u> |
| <u>Ammotrypane chaetifera</u> | <u>Disoma watsoni</u> |
| <u>Ammotrypane cylindricaudatus</u> | <u>Dorvillea rudolphi anoculata</u> |
| <u>Ammotrypane sp.</u> | <u>Dysponetus gracilis</u> |
| <u>Amphicteis sp.</u> | <u>Euchone incolor</u> |
| <u>Ancistrosyllis sp.</u> | <u>?Eumida sp.</u> |
| <u>Antinoana fusca</u> | <u>Eunice norvegica</u> |
| <u>Aricidea abranchiata</u> | <u>Euthelepus atlanticus</u> |
| <u>Aricidea suecica</u> | <u>Exogone dispar</u> |
| <u>Aricidea suecica</u> , anoculate | <u>Ephesiella macrocirris</u> |

| | |
|--|--|
| <u>Fauveliopsis brevis</u> | <u>Notoproctus abyssus</u> |
| <u>Fauveliopsis scabra</u> | <u>Paramphipnoma jeffreysii</u> |
| <u>Flabelligella papillata</u> | <u>Paranaitis wahlbergi</u> |
| <u>Glycera mimica</u> | <u>Paraonis cornatus</u> |
| <u>Glyphanostomum pallescens</u> | <u>Paraonis reductus</u> |
| <u>Goniada norvegica</u> | <u>Pholoe anomolata</u> |
| <u>Haploscoloplos fragilis</u> <u>intermedius</u> | <u>Phyllochaetopterus sp.</u> |
| <u>Heteromastus filiformis</u> | <u>Pirakia lanceolata</u> |
| <u>Ilyphaqus sp.</u> | <u>Poecilochaetus fulgoris</u> |
| <u>Kesun gravieri</u> | <u>Potamethus singularis</u> |
| <u>Langerhansia anomolata</u> | <u>Prionospio spp.</u> |
| <u>Laonice cinnata</u> | <u>Protodorvillea sp.</u> |
| <u>Leanira minor</u> | <u>Pseudomyctides limbata punctata</u> |
| <u>Lumbrineris latreilli</u> | <u>Pseudoscalibregma parva</u> |
| <u>Lysippe labiata</u> | <u>Sclerobregma branchiata</u> |
| <u>Maldane sarsi</u> | <u>Sphaerodoropsis corrugata</u> |
| maldanids | <u>Sphaerodoropsis longipalpa</u> |
| <u>Myriochele ?pygidialis</u> | <u>Sphaerosyllis brevifrons</u> |
| <u>Nereimyra ?punctata</u> | <u>Spiophanes kroyeri</u> |
| <u>Ninoe brevipes</u> | <u>Terebellides lobatus</u> |
| <u>Ninoe sp.</u> | <u>Terebellides stroemii</u> |
| <u>Notomastus latericeus</u> | <u>Tharyx marioni</u> |
| <u>Notomastus teres</u> | <u>Tomopteris sp.</u> |

Sta. A 58, in 2000 m

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| <u>Aedicira parva</u> | <u>Capitella nr capitata</u> |
| <u>Ammotrypane cylindricaudatus</u> | <u>Chone sp.</u> |
| <u>Aricidea suecica</u> | <u>Clymenura borealis</u> |
| <u>Aricidea tetrabranchia</u> | <u>Cossura longocirrata</u> |
| <u>Barantolla nr americana</u> | <u>Disoma watsoni</u> |
| <u>Califia schmitti</u> | <u>Drilonereis sp.</u> |

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|---------------------------------------|---|
| <u>Euchone</u> sp. | <u>Notoproctus oculatus</u> , anoculate |
| <u>Eulalia</u> <u>anoculata</u> | <u>Paramphinome jeffreysii</u> |
| <u>Eunice</u> sp. | <u>Paraonis cornatus</u> |
| <u>Glycera</u> <u>mimica</u> | <u>Paraonis reductus</u> |
| <u>Glycera</u> <u>tesselata</u> | <u>Pholoe</u> sp. |
| harmothoid | <u>Phyllochaetopterus</u> sp. |
| <u>Heteromastus</u> <u>filiformis</u> | <u>Praxillella praetermissa</u> |
| <u>Kesun</u> <u>gravieri</u> | <u>Prionospio</u> sp. |
| <u>Lumbrineris</u> <u>atlantica</u> | <u>Pseudoscalibregma aciculata</u> |
| <u>Lumbrineris</u> <u>fragilis</u> | <u>Pseudoscalibregma parva</u> |
| <u>Melinnata</u> <u>americana</u> | <u>Sigambra tentaculata</u> |
| <u>Nicomache</u> <u>lumbricalis</u> | <u>Spiophanes</u> sp. |
| <u>Ninoe</u> <u>brevipes</u> | <u>Terebellides stroemii</u> |
| <u>Notomastus</u> <u>latericeus</u> | <u>Tharyx marioni</u> |

Sta. Ch 103, in 2022 m

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| <u>Aedicira</u> <u>belgicae</u> | <u>Fauveliopsis</u> <u>scabra</u> |
| <u>Aqlaphamus</u> <u>groenlandiae</u> | <u>Glycera</u> <u>mimica</u> |
| <u>Ammotrypane</u> <u>cylindricaudatus</u> | <u>Goniada</u> <u>norvegica</u> |
| <u>Ammotrypane</u> sp. | <u>Ilyphagus</u> sp. |
| <u>Ampharete</u> <u>arctica</u> | <u>Kesun</u> <u>gravieri</u> |
| <u>Antinoana</u> <u>fusca</u> | <u>Laetmonice</u> sp. |
| <u>Aricidea</u> <u>neosuecica</u> | <u>Langerhansia</u> <u>anoculata</u> |
| <u>Aricidea</u> <u>tetrabranchia</u> | <u>Laonice</u> <u>antarcticae</u> |
| <u>Disoma</u> <u>watsoni</u> | <u>Leanira</u> <u>minor</u> |
| <u>Euchone</u> sp. | <u>Lumbrineris</u> <u>latreilli</u> |
| <u>Eulalia</u> <u>anoculata</u> | <u>Lumbrineris</u> sp. |
| <u>Eunice</u> <u>norvegica</u> | <u>Melinnata</u> <u>americana</u> |
| <u>Euthelepus</u> <u>abranchiatus</u> | melinnid |
| <u>Exogone</u> <u>dispar</u> | <u>Myriochele</u> nr <u>heeri</u> |
| <u>Fauveliopsis</u> <u>brevis</u> | <u>Myriochele</u> ? <u>pyqidialis</u> |

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| <u>Neopodarke woodsholea</u> | <u>Pseudomystides limbata punctata</u> |
| <u>Nicomache lumbricalis</u> | <u>Pseudoscalibregma parva</u> |
| <u>Notomastus latericeus</u> | <u>Samythella elongata</u> |
| <u>Ophryotrocha</u> sp. | <u>Scalispinigera cirrata</u> |
| <u>Paramphino me jeffreysii</u> | <u>Sphaerodoropsis longipalpa</u> |
| <u>Pholoe anomolata</u> | <u>Spiophanes</u> sp. |
| <u>Phyllochaetopterus</u> sp. | <u>Terebellides stroemii</u> |
| <u>Pirakia lanceolata</u> | <u>Tharyx marioni</u> |
| <u>Praxillella praetermissa</u> | <u>Vermiliopsis ?langerhansi</u> |
| <u>Prionospio</u> sp. | |

Sta. GH 3
(see Hartman, 1965, p. 33, for station data)

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| <u>Ammotrypane cylindricaudatus</u> | <u>Paradoneis abranchiata</u> |
| ampharetids | <u>Paramphino me jeffreysii</u> |
| <u>Ancistrosyllis groenlandica</u> | <u>Paraonis cornatus</u> |
| <u>Aricidea suecica</u> | <u>Pholoe anomolata</u> |
| <u>Aricidea suecica</u> , anomolata | <u>Praxillella gracilis</u> |
| <u>Dorvillea rudolphi</u> anomolata | <u>Praxillella praetermissa</u> |
| <u>Glycera mimica</u> | <u>Prionospio cirrifera</u> |
| <u>Kesun gravieri</u> | <u>Pseudoscalibregma parva</u> |
| <u>Langerhansia anomolata</u> | <u>Synelmis albini</u> |
| <u>Leanira minor</u> | <u>Tharyx</u> sp. |
| <u>Nephtys paradoxa</u> | <u>Travisiopsis lanceolata</u> |
| <u>Notomastus latericeus</u> | |

Sta. A 62, in 2496 m

| | |
|-------------------------------------|-------------------------------------|
| <u>Aedicira belgicae</u> | <u>Aricidea suecica</u> |
| <u>Aglaphamus groenlandiae</u> | <u>Aricidea suecica</u> , anomolata |
| <u>Ammotrypane abranchiata</u> | <u>Aricidea tetrabranchia</u> |
| <u>Ammotrypane aulogastrella</u> | <u>Chaetozone</u> sp. |
| <u>Ammotrypane cylindricaudatus</u> | <u>Clymenura borealis</u> |
| <u>Antinoana fusca</u> | <u>Ephesiella macrocirris</u> |

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| <u>Exogone dispar</u> | <u>Notomastus</u> sp. |
| <u>Fauveliopsis brevis</u> | <u>Paramphinome jeffreysii</u> |
| <u>Fauveliopsis scabra</u> | <u>Paraonis reductus</u> |
| flabelligerids | pectinariid |
| <u>Glycera mimica</u> | <u>Pholoe</u> sp. |
| <u>Kesun gravieri</u> | <u>Phyllochaetopterus</u> sp. |
| <u>Langerhansia anoculata</u> | <u>Prionospio</u> sp. |
| <u>Leanira minor</u> | <u>Pseudomystides limbata punctata</u> |
| <u>Lumbriclymene</u> sp. | <u>Pseudoscalibregma aciculata</u> |
| <u>Lumbrineris fragilis</u> | <u>Pseudoscalibregma parva</u> |
| <u>Lumbrineris latreilli</u> | <u>Pseudoscalibregma</u> sp. |
| <u>Melinnata americana</u> | <u>Scoloplos</u> sp. |
| <u>Myriochele</u> nr <u>heeri</u> | <u>Spiophanes kroyeri</u> |
| <u>Myriochele</u> sp. | <u>Tachytrypane jeffreysii</u> |
| <u>Ninoe brevipes</u> | <u>Tharyx marioni</u> |

Sta. A 66, in 2802 m

| | |
|---------------------------------------|----------------------------------|
| <u>Aglaphamus groenlandiae</u> | <u>Ceratonereis versipedata</u> |
| <u>Ammotrypane abranchiata</u> | <u>Chaetozone</u> sp. |
| <u>Ammotrypane aulogastrella</u> | <u>Clymenura borealis</u> |
| <u>Ammotrypane</u> sp. | <u>Cossura longocirrata</u> |
| <u>Ammotrypanella arctica</u> | <u>Dysponetus gracilis</u> |
| <u>Ampharete arctica</u> | <u>Ephesiella macrocirris</u> |
| ampharetids | <u>Eulalia anoculata</u> |
| <u>Amphicteis gunneri</u> | <u>Exogone dispar</u> |
| <u>Amphicteis trichophora</u> | <u>Fauveliopsis brevis</u> |
| <u>Antinoana fusca</u> | <u>Flabelligella minuta</u> |
| <u>Aricidea neosuecica</u> | <u>Glycera mimica</u> |
| <u>Aricidea tetrabranchia</u> | <u>Glyphanostomum pallescens</u> |
| <u>Barantolla</u> nr <u>americana</u> | <u>Haploscoloplos</u> sp. |
| <u>Ceratocephale loveni</u> | <u>Heterospio longissima</u> |

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|---------------------------------------|--|
| <u>Kesun</u> <u>gravieri</u> | <u>Pholoe</u> sp. |
| <u>Langerhansia</u> <u>anoculata</u> | <u>Praxillella</u> <u>praetermissa</u> |
| <u>Leanira</u> <u>minor</u> | <u>Prionospio</u> <u>steenstrupi</u> |
| <u>Lumbriclymene</u> sp. | <u>Prionospio</u> sp. |
| <u>Lumbrineris</u> <u>atlantica</u> | <u>Pseudomystides</u> <u>limbata</u> <u>punctata</u> |
| <u>Lumbrineris</u> <u>fragilis</u> | <u>Pseudoscalibregma</u> <u>aciculata</u> |
| <u>Lumbrineris</u> <u>paradoxa</u> | scalibregmid |
| <u>Nephtys</u> <u>paradoxa</u> | <u>Scoloplos</u> sp. |
| <u>Ninoe</u> <u>brevipes</u> | <u>Spiophanes</u> <u>kroyeri</u> |
| <u>Ophryotrocha</u> sp. | <u>Tachytrypane</u> <u>jeffreysii</u> |
| <u>Paradoneis</u> <u>abbranchiata</u> | <u>Terebellides</u> <u>lobatus</u> |
| <u>Paramphinome</u> <u>jeffreysii</u> | <u>Terebellides</u> <u>stroemii</u> |
| <u>Paraonides</u> <u>rubriceps</u> | <u>Tharyx</u> <u>annulosus</u> |
| <u>Paraonis</u> <u>uncinatus</u> | <u>Tharyx</u> <u>marioni</u> |
| paraonid | trichobranchid |

Sta. Ch 76, in 2862 m

| | |
|--|---------------------------------------|
| <u>Ammotrypane</u> <u>abbranchiata</u> | <u>Ilyphaqus</u> sp. |
| <u>Ammotrypane</u> <u>cylindricaudatus</u> | <u>Kesun</u> <u>gravieri</u> |
| <u>Ampharete</u> sp. | <u>Langerhansia</u> <u>anoculata</u> |
| <u>Ancistrosyllis</u> sp. | <u>Leanira</u> <u>minor</u> |
| <u>Antinoana</u> <u>fusca</u> | <u>Lumbrineris</u> sp. |
| <u>Aricidea</u> <u>neosuecica</u> | <u>Myriochele</u> nr <u>heeri</u> |
| <u>Ceratonereis</u> <u>versipedata</u> | <u>Myriochele</u> sp. |
| <u>Eulalia</u> <u>anoculata</u> | <u>Nephtys</u> <u>paradoxa</u> |
| <u>Fauveliopsis</u> <u>glabra</u> | <u>Paramphinome</u> <u>jeffreysii</u> |
| <u>Fauveliopsis</u> <u>scabra</u> | <u>Praxillella</u> sp. |
| <u>Glycera</u> sp. | <u>Prionospio</u> sp. |
| <u>Glycinde</u> <u>profunda</u> | <u>Tharyx</u> sp. |

Sta. A 72, in 2864 m

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| <u>Aглаопхамус</u> <u>гренландиæ</u> | <u>Ammotrypane</u> <u>aulogastrella</u> |
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|----------------------------------|------------------------------------|
| ampharetid | <u>Laonice antarcticae</u> |
| <u>Antinoana fusca</u> | <u>Leanira minor</u> |
| <u>Aricidea neosuecica</u> | <u>Lumbrineris atlantica</u> |
| <u>Chaetozone</u> sp. | <u>Melinnata americana</u> |
| <u>Chloeia</u> sp. | <u>Myriochele</u> nr <u>heeri</u> |
| <u>Fauveliopsis brevis</u> | <u>Myriochele</u> sp. |
| <u>Fauveliopsis scabra</u> | <u>Nephtys paradoxa</u> |
| <u>Glycera</u> sp. | <u>Paramphinome jeffreysii</u> |
| <u>Glyphanostomum pallescens</u> | <u>Paraonides monilaris</u> |
| <u>Heterospio longissima</u> | <u>Prionospio</u> sp. |
| <u>Ilyphagus octobranchus</u> | <u>Pseudoscalibregma aciculata</u> |
| <u>Kesun gravieri</u> | <u>Spiophanes kroyeri</u> |
| <u>Langerhansia anoculata</u> | <u>Terebellides stroemii</u> |

Sta. A 64, in 2886 m

| | |
|-------------------------------------|---|
| <u>Aqlaphamus groenlandiae</u> | <u>Exogone dispar</u> |
| <u>Amaeana</u> sp. | <u>Fauveliopsis brevis</u> |
| <u>Ammotrypane abranchiata</u> | <u>Fauveliopsis glabra</u> |
| <u>Ammotrypane aulogastrella</u> | <u>Glycera mimica</u> |
| <u>Ammotrypane chaetifera</u> | <u>Ilyphagus</u> sp. |
| <u>Ammotrypane</u> sp. | <u>Kesun gravieri</u> |
| <u>Ampharete arctica</u> | <u>Langerhansia anoculata</u> |
| ampharetid | <u>Leanira minor</u> |
| <u>Amphicteis vestis</u> | <u>Lumbrineris atlantica</u> |
| <u>Antinoana fusca</u> | <u>Lumbrineris fragilis</u> |
| <u>Aricidea neosuecica</u> | <u>Myriochele</u> sp. |
| <u>Asclerocheilus intermedius</u> | <u>Nephtys paradoxa</u> |
| <u>Capitella</u> nr <u>capitata</u> | <u>Ninoe brevipes</u> |
| <u>Ceratocephale loveni</u> | <u>Notoproctus oculatus</u> , anoculate |
| <u>Eulalia anoculata</u> | <u>Paradoneis abranchiata</u> |
| <u>Eunoe</u> cf <u>spinulosa</u> | <u>Paramphinome jeffreysii</u> |

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| <u>Paranaitis wahlbergi</u> | <u>Scoloplos</u> sp. |
| <u>Phyllochaetopterus</u> sp. | <u>Sphaerodoropsis corrugata</u> |
| <u>Poecilochaetus</u> sp. | <u>Sphaerodoropsis elegans</u> |
| <u>Praxillella</u> sp. | <u>Spiophanes</u> sp. |
| <u>Prionospio</u> sp. | <u>Tachytrypane jeffreysii</u> |
| <u>Progoniada regularis</u> | <u>Terebellides lobatus</u> |
| <u>Pseudomystides limbata punctata</u> | <u>Tharyx</u> sp. |

Sta. A 63, in 2891 m

| | |
|------------------------------------|--|
| <u>Aedicira belgicae</u> | <u>Leanira minor</u> |
| <u>Amaeana</u> sp. | <u>Lumbrineris atlantica</u> |
| <u>Ammotrypane abranchiata</u> | <u>Lumbrineris fragilis</u> |
| ampharetid | <u>Ninoe brevipes</u> |
| <u>Ancistrosyllis groenlandica</u> | <u>Notomastus</u> sp. |
| <u>Ancistrosyllis</u> sp. | <u>Paradoneis abranchiata</u> |
| <u>Aricidea tetrabranchia</u> | <u>Paranaitis wahlbergi</u> |
| <u>Ceratocephale loveni</u> | <u>Paraonis cornatus</u> |
| <u>Chaetozone</u> sp. | <u>Paraonis gracilis</u> |
| <u>Cossura longocirrata</u> | <u>Paraonis reductus</u> |
| <u>Eulalia anomolata</u> | <u>Prionospio steenstrupi</u> |
| <u>Exogone dispar</u> | <u>Prionospio</u> sp. |
| <u>Fauveliopsis brevis</u> | <u>Pseudomystides limbata punctata</u> |
| <u>Fauveliopsis glabra</u> | <u>Spiophanes</u> sp. |
| <u>Glycera mimica</u> | <u>Terebellides stroemii</u> |
| <u>Heteromastus filiformis</u> | <u>Tharyx marioni</u> |
| <u>Langerhansia anomolata</u> | |

Sta. A 65, in 2891 m

| | |
|----------------------------------|-----------------------------|
| <u>Aedicira belgicae</u> | ampharetids |
| <u>Aglaophamus</u> sp. | <u>Amphicteis gunneri</u> |
| <u>Ammotrypane abranchiata</u> | <u>Aricidea neosuecica</u> |
| <u>Ammotrypane aulogastrella</u> | <u>Ceratocephale loveni</u> |

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|---------------------------------|----------------------------------|
| <u>Cossura longocirrata</u> | <u>Paraonis cornatus</u> |
| <u>Exogone dispar</u> | <u>Paraonis uncinatus</u> |
| <u>Glycera mimica</u> | <u>Phyllochaetopterus</u> sp. |
| <u>Heterospio longissima</u> | <u>Prionospio</u> sp. |
| <u>Kesun gravieri</u> | scalibregmid |
| <u>Langerhansia anomolata</u> | <u>Scoloplos</u> sp. |
| <u>Leanira minor</u> | <u>Sphaerodoropsis corrugata</u> |
| <u>Lumbrineris atlantica</u> | <u>Spiophanes kroyeri</u> |
| <u>Notomastus teres</u> | <u>Sternaspis</u> sp. |
| <u>Paradoneis abranchiata</u> | <u>Tharyx annulosus</u> |
| <u>Paramphino me jeffreysii</u> | <u>Tharyx marioni</u> |
| <u>Paraonides rubriceps</u> | |

Sta. A 71, in 2946 m

| | |
|--------------------------------|--|
| <u>Ammotrypane abranchiata</u> | <u>Lumbrineris latreilli</u> |
| <u>Ammotrypane chaetifera</u> | <u>Myriochele</u> sp. |
| <u>Ampharete</u> sp. | <u>Nereis caecoides</u> |
| ampharetids | <u>Notomastus</u> sp. |
| <u>Amphicteis trichophora</u> | <u>Paraonis cornatus</u> |
| <u>Antinoana fusca</u> | <u>Paraonis uncinatus</u> |
| <u>Aricidea neosuecica</u> | <u>Prionospio steenstrupi</u> |
| <u>Euchone</u> sp. | <u>Pseudomystides limbata punctata</u> |
| <u>Exogone dispar</u> | <u>Pseudoscalibregma parva</u> |
| <u>Glycera mimica</u> | <u>Sphaerodoropsis corrugata</u> |
| <u>Heterospio longissima</u> | <u>Spiophanes kroyeri</u> |
| <u>Kesun gravieri</u> | <u>Tharyx marioni</u> |
| <u>Leanira minor</u> | |

Sta. A 95, in 3753 m

| | |
|--------------------------------|----------------------------------|
| <u>Aedicira belgicae</u> | <u>Ammotrypane aulogastrella</u> |
| <u>Aedicira parva</u> | <u>Ammotrypane chaetifera</u> |
| <u>Ammotrypane abranchiata</u> | <u>Ampharete arctica</u> |

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|---------------------------------------|--|
| <u>ampharetids</u> | <u>Maldane sarsi</u> |
| <u>Ancistrosyllis</u> sp. | <u>Monorchos varians</u> |
| <u>Antinoana fusca</u> | <u>Myriochele</u> nr <u>heeri</u> |
| <u>Aricidea tetrabranchia</u> | <u>Myriochele</u> sp. |
| <u>Barantolla</u> nr <u>americana</u> | <u>Nicon</u> sp. |
| <u>Braniella pupa</u> | <u>Ninoe brevipes</u> |
| <u>Ceratocephale loveni</u> | <u>Notoproctus abyssus</u> |
| <u>Chaetozone setosa</u> | <u>Ophryotrocha</u> sp. |
| <u>Chaetozone</u> sp. | <u>Paradoneis abranchiata</u> |
| <u>Clymenura borealis</u> | <u>Paranaitis wahlbergi</u> |
| <u>Cossura longocirrata</u> | <u>Paraonides monilaris</u> |
| ✓ <u>Disoma watsoni</u> | <u>Paraonides rubriceps</u> |
| <u>Euchone</u> sp. | <u>Paraonis gracilis</u> |
| <u>Eulalia anomolata</u> | <u>Paraonis gracilis</u> , aristate |
| <u>Exogone dispar</u> | <u>Paraonis uncinatus</u> |
| <u>Fauveliopsis brevis</u> | <u>Phyllochaetopterus</u> sp. |
| <u>Fauveliopsis glabra</u> | <u>Potamethus singularis</u> |
| <u>Fauveliopsis scabra</u> | <u>Praxillella praetermissa</u> |
| <u>Glycera mimica</u> | <u>Prionospio steenstrupi</u> |
| <u>Haploscoloplos</u> sp. | <u>Progoniada regularis</u> |
| <u>Heterospio longissima</u> | <u>Pseudomystides limbata punctata</u> |
| <u>Kesun gravieri</u> | <u>Rhodine</u> sp. |
| <u>Laonice</u> sp. | sabellariid |
| <u>Leanira minor</u> | sabellid |
| <u>Lopadorrhynchus ?uncinatus</u> | <u>Sphaerodoropsis corrugata</u> |
| <u>Lumbrineris atlantica</u> | <u>Sphaerodorum</u> sp. |
| <u>Lumbrineris fragilis</u> | <u>Spiophanes kroyeri</u> |
| <u>Lumbrineris</u> sp. | <u>Tachytrypane jeffreysii</u> |
| <u>Magelona</u> sp. | <u>Tharyx annulosus</u> |

Sta. A 126, in 3806 m

| | |
|-----------------------------------|--|
| <u>ampharetid</u> , tattered tube | <u>Leiochrides</u> sp. |
| <u>ampharetids</u> | <u>Magelona</u> sp. |
| <u>Amphicteis sargassoensis</u> | <u>Monorchos varians</u> |
| <u>Anaitides</u> , anoculate | <u>Myriochele</u> nr <u>heeri</u> |
| <u>Aricidea</u> sp. | <u>Myriochele</u> sp. |
| <u>Braniella pupa</u> | <u>Ninoe</u> <u>dibranchia</u> |
| <u>Ceratonereis versipedata</u> | <u>Ninoe</u> sp. |
| <u>Chaetozone</u> sp. | <u>Nothria</u> <u>textor</u> |
| <u>Clymenura borealis</u> | <u>Notoproctus</u> <u>abyssus</u> |
| <u>Disoma</u> sp. | <u>Paranaitis</u> <u>wahlbergi</u> |
| <u>Eulalia anoculata</u> | <u>Paraonides</u> <u>monilaris</u> |
| <u>Exogone dispar</u> | <u>Prionospio</u> sp. |
| <u>Exogonita oculata</u> | <u>Progoniada</u> <u>regularis</u> |
| <u>Fauveliopsis brevis</u> | <u>Pseudomystides</u> <u>limbata</u> <u>punctata</u> |
| <u>Fauveliopsis scabra</u> | <u>Rhodine</u> sp. |
| <u>Glycera</u> sp. | sabellariid |
| <u>Glycinde profunda</u> | <u>Spiophanes</u> sp. |
| <u>Goniada</u> sp. | <u>Tharyx</u> <u>nigrorostrum</u> |
| harmothoid | <u>Tharyx</u> sp. |
| <u>Ilyphagus octobranchus</u> | <u>Tomopteris</u> sp. |
| <u>Laetmonice</u> sp. | |

Sta. Ch 78, in 3828 m

| | |
|-----------------------------|------------------------------------|
| <u>Aedicira belgicae</u> | <u>Maupasia</u> sp. |
| <u>Aglaophamus</u> sp. | <u>Myriochele</u> sp. |
| <u>Ammotrypane</u> sp. | <u>Ninoe</u> <u>brevipes</u> |
| <u>Ampharete</u> sp. | <u>Nothria</u> sp. |
| <u>Leanira</u> sp. | <u>Progoniada</u> <u>regularis</u> |
| <u>Lumbrineris fragilis</u> | <u>Spiophanes</u> <u>kroyeri</u> |

Sta. Ch 85, in 3834 m

| | |
|---------------------------------|--|
| <u>Aglaphamus groenlandiae</u> | <u>Lopadorrhynchus</u> sp. |
| <u>Ammotrypane</u> sp. | <u>Lumbrineris atlantica</u> |
| ampharetid, apaleal | <u>Lumbrineris fragilis</u> |
| ampharetid, paleal | <u>Monorchos varians</u> |
| <u>Amphicteis sargassoensis</u> | <u>Myriochele</u> nr <u>heeri</u> |
| <u>Antinoana fusca</u> | <u>Ninoe dibranchia</u> |
| <u>Chaetozone</u> sp. | <u>Paraonides monilaris</u> |
| <u>Clavodorum atlanticum</u> | paraonids |
| <u>Clymenura borealis</u> | <u>Paraonis reductus</u> |
| <u>Eulalia anoculata</u> | <u>Phalacrostemma elegans</u> |
| <u>Fauveliopsis brevis</u> | <u>Phyllochaetopterus</u> sp. |
| <u>Filograna</u> sp. | <u>Progoniada regularis</u> |
| <u>Goniada</u> sp. | <u>Pseudomystides limbata punctata</u> |
| <u>Heterospio longissima</u> | <u>Sphaerodoropsis corrugata</u> |
| <u>Ilyphaqus</u> sp. | <u>Tharyx annulosus</u> |
| <u>Leanira minor</u> | <u>Tomopteris</u> sp. |

Sta. A 69, in 4663 m

| | |
|-----------------------------|-------------------------------|
| ampharetids | orbiniid |
| <u>Aricidea</u> sp. | <u>Paradoneis abranchiata</u> |
| <u>Ceratocephale loveni</u> | <u>Paranaitis wahlbergi</u> |
| <u>Chaetozone</u> sp. | <u>Praxillella</u> sp. |
| <u>Fauveliopsis scabra</u> | <u>Progoniada regularis</u> |
| <u>Glycera</u> sp. | spionid |
| <u>Isocirrus planiceps</u> | <u>Spiophanes kroyeri</u> |
| <u>Ilyphagus</u> sp. | <u>Tharyx</u> sp. |
| <u>Lumbrineris</u> sp. | |

Sta. A 70, in 4680 m

| | |
|----------------------------------|--------------------------|
| <u>Ammotrypane aulogastrella</u> | <u>Ampharete arctica</u> |
| <u>Ammotrypane chaetifera</u> | ampharetids |

| | |
|-----------------------------------|--|
| <u>Antinoana fusca</u> | <u>Myriochele</u> nr <u>heeri</u> |
| <u>Austrophylloides maculatum</u> | <u>Myriochele</u> sp. |
| cirratulid | nereid |
| <u>Disoma</u> sp. | <u>Notoproctus</u> sp. |
| <u>Exogone dispar</u> | <u>Phalacrostemma elegans</u> |
| <u>Fauveliopsis glabra</u> | phyllodocid |
| <u>Glycera mimica</u> | <u>Platynereis dumerilii</u> |
| <u>Goniada norvegica</u> | <u>Praxillella</u> sp. |
| <u>Heteromastus filiformis</u> | <u>Prionospio</u> sp. |
| <u>Hyalinoecia</u> sp. | <u>Pseudomystides limbata punctata</u> |
| <u>Isocirrus planiceps</u> | <u>Pseudoscalibregma parva</u> |
| <u>Laetmonice</u> sp. | sabellid |
| <u>Leanira minor</u> | <u>Scoloplos</u> sp. |
| lopadorrhynchid | spionid |
| <u>Lumbriclymene</u> sp. | <u>Spiophanes kroyeri</u> |
| <u>Lumbrineris</u> sp. | typhloscolecid |
| <u>Macellicephalia</u> sp. | <u>Tomopteris</u> sp. |
| <u>Melinnata americana</u> | <u>Vanadis</u> sp. |
| <u>Microrbinia linea</u> | |

Sta. Ch 84, in 4747 m

| | |
|----------------------------------|---------------------------------|
| alciopid | <u>Ceratonereis versipedata</u> |
| <u>Ammotrypane aulogastrella</u> | <u>Chaetozone</u> sp. |
| <u>Ammotrypane chaetifera</u> | <u>Clavodorum atlanticum</u> |
| <u>Ammotrypanella arctica</u> | <u>Clymenura</u> sp. |
| ampharetid, paleal | <u>Cossura longocirrata</u> |
| <u>Amphicteis sargassoensis</u> | <u>Disoma</u> sp. |
| <u>Antinoana fusca</u> | <u>Exogone dispar</u> |
| <u>Aricidea neosuecica</u> | <u>Fauveliopsis scabra</u> |
| <u>Capitella</u> sp. | <u>Glycera</u> sp. |
| <u>Ceratocephale loveni</u> | <u>Glycinde profunda</u> |

| | |
|---|--|
| <u>Goniada</u> sp. | <u>Nothria</u> <u>textor</u> |
| harmothoid | <u>Notomastus</u> sp. |
| <u>Isocirrus</u> <u>planiceps</u> | <u>Paraonides</u> <u>monilaris</u> |
| <u>Ilyphaqus</u> <u>octobranchus</u> | <u>Phalacrostemma</u> <u>elegans</u> |
| <u>Kesun</u> <u>gravieri</u> | phyllodocid |
| <u>Laetmonice</u> sp. | <u>Pirakia</u> <u>lanceolata</u> |
| <u>Leanira</u> sp. | <u>Progoniada</u> <u>regularis</u> |
| <u>Lopadorrhynchus</u> ? <u>uncinatus</u> | <u>Pseudomystides</u> <u>limbata</u> <u>punctata</u> |
| <u>Lumbrineris</u> ? <u>fragilis</u> | <u>Rhodine</u> sp. |
| <u>Lumbrineris</u> sp. | <u>Scoloplos</u> sp. |
| <u>Macellicephala</u> sp. | <u>Sigambra</u> <u>tentaculata</u> |
| <u>Magelona</u> <u>capax</u> | ?spionid, unknown |
| maldanid | <u>Spiophanes</u> sp. |
| <u>Melinnata</u> <u>americana</u> | <u>Tachytrypane</u> <u>jeffreysii</u> |
| nereid | <u>Terebellides</u> sp. |
| <u>Ninoe</u> <u>brevipes</u> | <u>Tharyx</u> <u>marioni</u> |

Sta. A 109, in 4750 m

| | |
|-----------------------------------|---------------------------------------|
| <u>Ammotrypane</u> sp. | <u>Isocirrus</u> sp. |
| ampharetid | maldanid |
| <u>Fauveliopsis</u> <u>scabra</u> | <u>Nothria</u> <u>textor</u> |
| <u>Glycera</u> sp. | <u>Tachytrypane</u> <u>jeffreysii</u> |

Sta. KK 4, in 4773 m

| | |
|------------------------------------|------------------------------------|
| ampharetid | orbiniid |
| <u>Asclerocheilus</u> sp. | <u>Paradoneis</u> sp. |
| <u>Ceratocephale</u> <u>loveni</u> | <u>Praxillella</u> sp. |
| <u>Chaetozone</u> sp. | <u>Progoniada</u> <u>regularis</u> |
| <u>Exogone</u> <u>dispar</u> | <u>Sigambra</u> <u>tentaculata</u> |
| <u>Fauveliopsis</u> <u>scabra</u> | <u>Spiophane</u> <u>kroyeri</u> |
| <u>Glycera</u> sp. | <u>Tharyx</u> <u>nigrorostrum</u> |
| <u>Lumbrineris</u> sp. | |

Sta. A 121, in 4800 m

| | |
|----------------------------------|------------------------------------|
| <u>Aedicira parva</u> | <u>Macellicephalia</u> sp. |
| <u>Ammotrypane aulogastrella</u> | <u>Magelona</u> sp. |
| <u>Ammotrypane chaetifera</u> | maldanid |
| <u>Ammotrypane</u> sp. | <u>Melinnata americana</u> |
| <u>Ammotrypanella arctica</u> | nereid |
| ampharetids | <u>Progoniada regularis</u> |
| <u>Chaetozone</u> sp. | polynoid |
| <u>Cossura longocirrata</u> | <u>Prionospio</u> sp. |
| disomid | <u>Pseudoscalibregma aciculata</u> |
| <u>Glycera</u> sp. | spionid |
| <u>Glycinde profunda</u> | spirorbid, dextral |
| <u>Ilyphagus octobranchus</u> | <u>Terebellides lobatus</u> |
| <u>Kesun gravieri</u> | <u>Tharyx</u> sp. |
| <u>Leanira</u> sp. | <u>Unobranchus abyssalis</u> |
| <u>Lumbrineris</u> sp. | |

Sta. A 125, in 4825 m

| | |
|-------------------------------------|-------------------------------|
| <u>Ammotrypane aulogastrella</u> | <u>Exogone</u> sp. |
| <u>Ammotrypane chaetifera</u> | <u>Exogonita oculata</u> |
| <u>Ammotrypane cylindricaudatus</u> | <u>Fauveliopsis scabra</u> |
| <u>Ammotrypane</u> sp. | <u>Glycera</u> sp. |
| <u>Ammotrypanella arctica</u> | harmothoid |
| ampharetids | <u>Ilyphagus octobranchus</u> |
| <u>Amphicteis sargassoensis</u> | <u>Isocirrus planiceps</u> |
| <u>Aricidea</u> sp. | <u>Kesun gravieri</u> |
| <u>Braniella pupa</u> | <u>Laetmonice</u> sp. |
| <u>Capitella</u> sp. | <u>Leanira minor</u> |
| <u>Clymenura ?borealis</u> | <u>Lumbrineris</u> sp. |
| <u>Cossura longocirrata</u> | <u>Melinnata americana</u> |
| <u>Disoma</u> sp. | nereid |

| | |
|-------------------------------|---------------------------------|
| <u>Nothria textor</u> | <u>Scalibregmella antennata</u> |
| <u>Paraonides monilaris</u> | <u>Scoloplos</u> sp. |
| <u>Phalacrostemma elegans</u> | spirorbid |
| phyllodocid | terebellid |
| phyllodocid, aberrant | <u>Terebellides lobatus</u> |
| <u>Prionospio</u> sp. | <u>Tharyx nigrorostrum</u> |
| <u>Progoniada regularis</u> | |

Sta. A 122, in 4833 m

| | |
|-----------------------------------|-----------------------------------|
| <u>Ammotrypane aulogastrella</u> | <u>Leanira</u> sp. |
| <u>Ammotrypane chaetifera</u> | <u>Lumbrineris</u> sp. |
| <u>Ammotrypane</u> sp. | <u>Lopadorrhynchus ?uncinatus</u> |
| <u>Ammotrypanella arctica</u> | <u>Magelona</u> sp. |
| ampharetid, paleal | <u>Melinnata americana</u> |
| ampharetid | <u>Notomastus</u> sp. |
| <u>Aricidea</u> sp. | orbiniid |
| <u>Asclerocheilus intermedius</u> | <u>Paraonis uncinatus</u> |
| capitellid | phyllodocid |
| <u>Chaetozone</u> sp. | <u>Prionospio</u> sp. |
| <u>Cossura longocirrata</u> | <u>Progoniada</u> sp. |
| <u>Dorvillea</u> sp. | <u>Scalibregmella antennata</u> |
| <u>Glycera</u> sp. | <u>Sigambra tentaculata</u> |
| harmothoid | spionid |
| hesionid | <u>Spiophanes</u> sp. |
| <u>Ilyphaqus octobranchus</u> | <u>Terebellides lobatus</u> |
| <u>Isocirrus</u> sp. | <u>Tharyx</u> sp. |
| <u>Kesun gravieri</u> | trichobranchid |

Sta. A 123, in 4853 m

| | |
|-------------------------------|----------------------------|
| <u>Ammotrypanella arctica</u> | <u>Lumbrineris</u> sp. |
| ampharetid | maldanid |
| harmothoid | <u>Melinnata americana</u> |

Nothria textorTerebellides sp.Notomastus sp.

Sta. A 124, in 4862 m

| | |
|----------------------------------|-------------------------------|
| <u>alciopid</u> | lumbrinerid |
| <u>Ammotrypane aulogastrella</u> | <u>Melinnata americana</u> |
| <u>Ammotrypane</u> sp. | nereid |
| <u>Ammotrypanella arctica</u> | <u>Notomastus</u> sp. |
| <u>Ampharete</u> sp. | <u>Phalacrostemma elegans</u> |
| <u>Capitella aberranta</u> | phyllodocid |
| <u>Capitella</u> sp. | spirorbida |
| <u>Cossura</u> sp. | <u>Terebellides lobatus</u> |
| <u>Disoma</u> sp. | <u>Tharyx</u> sp. |
| <u>Lumbrineris</u> sp. | |

Sta. Ch 100, in 4892 m

| | |
|----------------------------------|----------------------------|
| <u>Aedicira parva</u> | <u>Fauveliopsis brevis</u> |
| <u>Ammotrypane aulogastrella</u> | <u>Fauveliopsis glabra</u> |
| <u>Ammotrypane chaetifera</u> | <u>Filograna</u> sp. |
| <u>Ammotrypanella arctica</u> | <u>Flabelligella</u> sp. |
| <u>Amphicteis sargassoensis</u> | <u>Glycera mimica</u> |
| ampharetid | <u>Goniada</u> sp. |
| <u>Aricidea</u> sp. | <u>Ilyphagus</u> sp. |
| <u>Braniella pupa</u> | <u>Jasmineira</u> sp. |
| <u>Ceratocephale loveni</u> | <u>Laetmonice</u> sp. |
| chaetopterid | <u>Laonice</u> sp. |
| <u>Chaetozone setosa</u> | <u>Lopadorrhynchus</u> sp. |
| <u>Chaetozone</u> sp. | <u>Lumbrineris</u> sp. |
| <u>Clymenura ?borealis</u> | melinnid |
| <u>Euchone incolor</u> | <u>Myriochele</u> sp. |
| <u>Euphrösine</u> sp. | <u>Nothria textor</u> |
| <u>Exogone dispar</u> | orbiniid |

| | |
|--|------------------------------|
| <u>Paranaitis wahlbergi</u> | sabellid |
| <u>Paraonis uncinatus</u> | <u>Spiophanes</u> sp. |
| <u>Phalacrostemma elegans</u> | <u>Spirodiscus grimaldii</u> |
| phyllodocid | spirorbida, dextral |
| <u>Poecilochaetus</u> sp. | ? <u>Telepsavus</u> sp. |
| <u>Prionospio</u> sp. | <u>Terebellides</u> sp. |
| <u>Progoniada regularis</u> | <u>Tharyx marioni</u> |
| <u>Pseudomystides limbata punctata</u> | <u>Typhloscolex</u> sp. |
| <u>Pseudoscalibregma aciculata</u> | <u>Unobranchus abyssalis</u> |

Sta. Ch 99, in 4977 m

| | |
|-------------------------|---------------------------------|
| <u>Ammotrypane</u> sp. | maldanid |
| ampharetid | <u>Myriochele</u> sp. |
| amphinomid | paraonid |
| <u>Califia schmitti</u> | <u>Scalibregmella antennata</u> |

Sta. Ch 83, in 5000 m

| | |
|----------------------------------|-----------------------------|
| <u>Aedicira parva</u> | <u>Magelona</u> sp. |
| <u>Ammotrypane aulogastrella</u> | maldanid |
| <u>Ammotrypane chaetifera</u> | <u>Myriochele</u> sp. |
| ampharetid | orbiniid |
| <u>Ancistrosyllis</u> sp. | <u>Praxillella</u> sp. |
| <u>Chaetozone</u> sp. | <u>Prionospio</u> sp. |
| <u>Eulalia anoculata</u> | <u>Progoniada regularis</u> |
| <u>Fauveliopsis brevis</u> | spionid |
| <u>Glycera</u> sp. | <u>Terebellides</u> sp. |
| lopadorrhynchid | <u>Tharyx marioni</u> |
| <u>Lopadorrhynchus</u> sp. | <u>Tomopteris</u> sp. |
| <u>Lumbrineris</u> sp. | |

Sta. A 93, in 5007 m

| | |
|----------------------------------|-------------------------------|
| <u>Ammotrypane aulogastrella</u> | <u>Ammotrypane chaetifera</u> |
|----------------------------------|-------------------------------|

| | |
|--|--|
| ampharetid | <u>Neopaiwa</u> <u>cirrata</u> |
| <u>Amphicteis</u> <u>sargassoensis</u> | <u>Paraonis</u> ? <u>reductus</u> |
| <u>Anobothrus</u> ? <u>gracilis</u> | <u>Phalacrostemma</u> <u>elegans</u> |
| <u>Ceratocephale</u> <u>loveni</u> | phyllodocid |
| <u>Fauveliopsis</u> <u>brevis</u> | <u>Potamethus</u> <u>singularis</u> |
| flabelligerid | <u>Prionospio</u> ? <u>steenstrupi</u> |
| <u>Glycera</u> <u>mimica</u> | sabellid |
| <u>Lumbrineris</u> sp. | syllid |
| maldanid | <u>Terebellides</u> <u>lobatus</u> |
| melinnid | <u>Tharyx</u> <u>marioni</u> |
| <u>Myriochele</u> sp. | <u>Unobranchus</u> <u>abyssalis</u> |

Sta. A 120, in 5018 m

| | |
|--|---|
| <u>Ammotrypane</u> <u>aulogastrella</u> | <u>Myriochele</u> sp. |
| <u>Ammotrypanella</u> <u>arctica</u> | opheliid |
| ampharetid, apaleal | <u>Phalacrophorus</u> <u>pictus</u> |
| ampharetid, paleal | <u>Phyllampharete</u> <u>longicirra</u> |
| <u>Amphicteis</u> <u>sargassoensis</u> | phyllodocid |
| <u>Aricidea</u> sp. | <u>Pisionura</u> <u>abyssorum</u> |
| <u>Asclerocheilus</u> <u>beringianus</u> | <u>Poecilochaetus</u> sp. |
| <u>Ceratocephale</u> <u>loveni</u> | <u>Potamethus</u> <u>singularis</u> |
| <u>Chaetozone</u> sp. | <u>Prionospio</u> sp. |
| <u>Exogone</u> <u>dispar</u> | <u>Progoniada</u> <u>regularis</u> |
| <u>Fauveliopsis</u> <u>scabra</u> | <u>Scalibregmella</u> <u>antennata</u> |
| <u>Glycera</u> <u>mimica</u> | <u>Sigambra</u> <u>tentaculata</u> |
| <u>Glycinde</u> <u>profunda</u> | <u>Spiophanes</u> sp. |
| <u>Haploscoloplos</u> sp. | spirorbid |
| lopadorrhynchid | <u>Terebellides</u> sp. |
| <u>Lumbrineris</u> sp. | <u>Tharyx</u> <u>marioni</u> |
| <u>Macellicephalia</u> sp. | typhloscolecid |
| maldanid | <u>Unobranchus</u> <u>abyssalis</u> |

The Bermuda rise is represented by ten samples of which eight (Be 1 to Be 8) were previously analyzed (Hartman, 1965, pp. 17-22). Two others are added.

Sta. A 118, in 1135 m

| | |
|--|-------------------------------------|
| <u>Aedicira belgicae</u> | <u>Myriochele</u> sp. |
| <u>Aqlaophamus groenlandiae</u> | <u>Notalia</u> sp. |
| <u>Ammotrypane</u> sp. | <u>Nothria</u> ? <u>pallidula</u> |
| ? <u>Ampharete</u> sp. | <u>Nothria</u> <u>textor</u> |
| <u>Asclerocheilus intermedius</u> | <u>Notomastus</u> sp. |
| <u>Ceratonereis versipedata</u> | <u>Onuphis quadrivispis</u> |
| <u>Chloeia</u> sp. | <u>Ophelia</u> <u>profunda</u> |
| disomid | <u>Paramphinome jeffreysii</u> |
| <u>Dorvillea rudolphi</u> <u>anoculata</u> | <u>Paranonis</u> <u>uncinatus</u> |
| ? <u>Euchone</u> sp. | <u>Pareurythoe</u> sp. |
| <u>Fauveliopsis glabra</u> | ✓ <u>Peisidice bermudensis</u> |
| <u>Fauveliopsis scabra</u> | <u>Prionospio</u> sp. |
| <u>Filogranula</u> ? <u>gracilis</u> | <u>Progoniada regularis</u> |
| <u>Flabelligella papillata</u> | <u>Protodorvillea minuta</u> |
| <u>Glycera mimica</u> | ? <u>Psammolyce</u> sp. |
| <u>Glyphanostomum pallescens</u> | sabellid |
| <u>Goniada</u> sp. | sigalionid |
| harmothoid | spionid |
| <u>Hyalinoecia</u> sp. | <u>Spirodiscus</u> <u>grimaldii</u> |
| <u>Ilyphagus octobranchus</u> | <u>Syllis</u> sp. |
| <u>Laetmonice</u> sp. | <u>Synelmis</u> <u>albini</u> |
| <u>Leanira minor</u> | terebellid |
| <u>Lumbrineris</u> sp. | <u>Tharyx</u> sp. |
| <u>Magelona</u> ? <u>capax</u> | <u>Typosyllis</u> sp. |
| maldanid | <u>Vermiliopsis</u> sp. |
| <u>Monorchos varians</u> | |

Sta. A 119, in 2095 m

| | |
|--------------------------------|--|
| <u>Aedicira belgicae</u> | <u>Nothria textor</u> |
| <u>Ammotrypane abranchiata</u> | <u>Notomastus</u> sp. |
| <u>Ammotrypane</u> sp. | <u>Paramphipnoma jeffreysii</u> |
| ? <u>Amphicteis</u> sp. | <u>Paraonis uncinatus</u> |
| ? <u>Anaitides</u> sp. | paraonids |
| ✓ <u>Boquella ornata</u> | <u>Phalacrostemma cidariophilum</u> |
| <u>Ceratocephale loveni</u> | <u>Poecilochaetus bermudensis</u> |
| <u>Chaetozone ?setosa</u> | <u>Prionospio</u> sp. |
| <u>Chloeia</u> sp. | <u>Progoniada regularis</u> |
| chrysopetalid | <u>Pseudomystides limbata punctata</u> |
| <u>Exogone ?dispar</u> | sabellid |
| <u>Fauveliopsis scabra</u> | scalibregmid |
| <u>Flabelligella minuta</u> | ? <u>Scoloplos</u> sp. |
| <u>Flabelligella papillata</u> | serpulid |
| <u>Flabelligera</u> sp. | sigalionid |
| <u>Glycera mimica</u> | <u>Sphaerodoropsis longipalpa</u> |
| <u>Hesiocaeca bermudensis</u> | spionid |
| <u>Hyalinoecia</u> sp. | <u>Spirodiscus grimaldii</u> |
| <u>Lumbriclymene</u> sp. | ? <u>Sthenelais</u> sp. |
| <u>Lumbrineris</u> sp. | <u>Synelmis albini</u> |
| maldanid | <u>Tharyx nigrorostrum</u> |
| <u>Myriochele</u> sp. | <u>Tharyx</u> sp. |
| <u>Notalia</u> sp. | |

The equatorial region is represented by four samples, of which three (Ch 12, 33, 34) have been previously reported (Hartman, 1965, pp. 44-48). One is added:

Sta. A 155, in 3730 m

| | |
|----------------------------------|--------------------------------|
| <u>Aedicira belgicae</u> | <u>Leanira minor</u> |
| <u>Aglaophamus</u> sp. | <u>Lumbrineris</u> sp. |
| <u>Ammotrypane aulogastrella</u> | <u>Macellicephalia</u> sp. |
| <u>Ammotrypane</u> sp. | maldanid |
| <u>Amphicteis sargassoensis</u> | <u>Monorchos varians</u> |
| <u>Aricidea ?tetrabranchia</u> | <u>Myriochele</u> sp. |
| <u>Braniella pupa</u> | <u>Ninoe brevipes</u> |
| <u>Ceratocephale loveni</u> | <u>Nothria</u> sp. |
| <u>Chaetozone</u> sp. | <u>Notomastus</u> sp. |
| <u>Chloeia</u> sp. | <u>Paraonides monilaris</u> |
| cirratulid | <u>Phyllochaetopterus</u> sp. |
| <u>Clymenura</u> sp. | phyllodocid |
| ? <u>Euchone incolor</u> | <u>Prionospio</u> sp. |
| <u>Exogone dispar</u> | sabellariid |
| <u>Fauveliopsis scabra</u> | sabellid |
| ? <u>Filogranula</u> sp. | serpulid |
| <u>Flabelligella minuta</u> | <u>Sigambra tentaculata</u> |
| <u>Flabelligella papillata</u> | <u>Sphaerodoropsis elegans</u> |
| <u>Glycera</u> sp. | spionid |
| <u>Glycinde profunda</u> | <u>Spiophanes</u> sp. |
| <u>Glyphanostomum</u> sp. | terebellid |
| <u>Ilyphagus</u> sp. | <u>Tharyx</u> sp. |
| <u>Kesun gravieri</u> | trichobranchid |

SUMMARY OF ANALYSES

The polychaete fauna in slope depths, 97 to 2000 meters, is represented in 12 samples:

| | | | |
|-------|-----------------|--------|-----------------|
| C 1 | with 39 species | Ch 105 | with 66 species |
| Ch 89 | " 94 " | E 3 | " 63 " |
| Sl 2 | " 67 " | Ch 87 | " 107 " |
| Sl 3 | " 72 " | A 73 | " 72 " |
| Sl 4 | " 73 " | F 1 | " 50 " |
| D 1 | " 75 " | G 1 | " 52 " |

They contain a total of about 244 species, or 62 per cent of the total polychaete fauna. Highest numbers come from 1102 m, and lowest in the shallowest, 97 m, depth. About 70 per cent of the species occur in two or more depth classes, and the other 30 per cent may be expected to occur more abundantly in depths shallower than those sampled.

The polychaete fauna in upper abyssal depths, 2000 to 3834 m, is represented in 18 samples:

| | | | |
|--------|-----------------|-------|-----------------|
| A 58 | with 45 species | A 64 | with 52 species |
| Ch 103 | " 56 " | A 63 | " 35 " |
| GH 4 | " 27 " | A 65 | " 34 " |
| GH 3 | " 33 " | HH 3 | " 41 " |
| A 62 | " 46 " | A 71 | " 27 " |
| GH 1 | " 35 " | A 95 | " 60 " |
| A 66 | " 62 " | A 126 | " 37 " |
| Ch 76 | " 7 " | Ch 78 | " 11 " |
| A 72 | " 31 " | Ch 85 | " 31 " |

Total number of species is about 212, or 56.6 per cent of the total. Highest numbers come from Sta. A 66, in 2802 m, and Sta. A 95, in 3753 m; lowest from Sta. Ch 78, in 3828 m. About 78

per cent of the species occur in two or more depth classes; the other 12 per cent may be limited to this depth.

The polychaete fauna in middle abyssal depths, 4001 to 4900 m, is represented in 14 samples:

| | | | |
|-------|-----------------|--------|-----------------|
| JJ 1 | with 23 species | A 121 | with 28 species |
| JJ 3 | " 13 " | A 125 | " 40 " |
| A 69 | " 18 " | A 122 | " 38 " |
| A 70 | " 41 " | KK 1 | " 19 " |
| Ch 84 | " 50 " | A 123 | " 9 " |
| A 109 | " 9 " | A 124 | " 16 " |
| KK 4 | " 15 " | Ch 100 | " 47 " |

Total number of species is about 147, or 40 per cent of the total fauna. Highest numbers come from Sta. Ch 84, in 4749 m, and Sta. Ch 100, in 4743-4892 m; lowest numbers from Sta. A 109, in 4750 m, and Sta. A 123, in 4853 m. About 23 species, or 16 per cent of the total fauna, may be limited to this depth class.

The polychaete fauna in lower abyssal depths, 4950 to 5042 m, is represented in 9 samples:

| | | | |
|-------|-----------------|-------|-----------------|
| NN 1 | with 15 species | MM 1 | with 10 species |
| Ch 80 | " 12 " | A 93 | " 24 " |
| Ch 99 | " 8 " | A 120 | " 37 " |
| LL 1 | " 14 " | Ch 81 | " 8 " |
| Ch 83 | " 24 " | | |

Total number of species is about 89, or less than 23 per cent of the total fauna. Highest numbers come from Sta. A 120, in 5018-5023 m, and lowest from Sta. Ch 99, in 4977 m, and Sta. Ch 81, 5042 m. The samples are unique in that they contain three or more new genera (Pisionura, Phyllampharete, and Uncibranchus), and perhaps others in amphipodid, opheliid, and nereid families.

The following is a systematic list of polychaetes limited to abyssal depths of more than 2000 meters:

| | |
|--|---|
| <u>Eunoe</u> cf <u>spinulosa</u> | <u>Heterospio</u> <u>longissima</u> |
| <u>Pisione</u> <u>abyssorum</u> | <u>Flabelligella</u> <u>minuta</u> |
| <u>Anaitides</u> sp., anoculate | <u>Asclerocheilus</u> <u>beringianus</u> |
| <u>Austrophylloides</u> <u>maculatum</u> | <u>Neolipobranchius</u> <u>glabrus</u> |
| <u>Synelmis</u> <u>albini</u> | <u>Pseudoscalibregma</u> <u>aciculata</u> |
| <u>Exogonita</u> <u>oculata</u> | <u>Scalibregmella</u> <u>antennata</u> |
| <u>Ceratonereis</u> <u>versipedata</u> | <u>Scalispinigera</u> <u>cirrata</u> |
| <u>Nereis</u> <u>caecoides</u> | <u>Ammotrypanella</u> <u>arctica</u> |
| <u>Nephtys</u> <u>paradoxa</u> | <u>Tachytrypane</u> <u>jeffreysii</u> |
| <u>Clavodorum</u> <u>atlanticum</u> | <u>Barantolla</u> nr <u>americana</u> |
| <u>Glycinde</u> <u>profunda</u> | <u>Capitella</u> <u>aberranta</u> |
| <u>Nothria</u> <u>textor</u> | <u>Phalacrostemma</u> ? <u>elegans</u> |
| <u>Lumbrineris</u> <u>atlantica</u> | <u>Amphicteis</u> <u>sargassoensis</u> |
| <u>Lumbrineris</u> <u>paradoxa</u> | <u>Neopaiwa</u> <u>cirrata</u> |
| orbiniid, unknown | <u>Phyllampharete</u> <u>longicirra</u> |
| <u>Paradoneis</u> <u>abbranchiata</u> | <u>Euthelepus</u> <u>abbranchiatus</u> |
| <u>Paraonides</u> <u>monilaris</u> | <u>Unobranchus</u> <u>abyssalis</u> |
| ?spionid, unknown | <u>Vermiliopsis</u> ? <u>langerhansi</u> |

The polychaete fauna of the Bermuda rise, 1000 to 2500 m depths, is represented in ten samples:

| Be 1 with 23 species | | | Be 3 with 19 species | | |
|----------------------|---|----|----------------------|---|----|
| Be 8 | " | 28 | Be 4 | " | 28 |
| A 118 | " | 49 | Be 5 | " | 21 |
| Be 6 | " | 21 | A 119 | " | 44 |
| Be 2 | " | 15 | Be 7 | " | 16 |

Total number of species is about 115, of which 16 appear to be limited to this area; they are (in systematic arrangement):

| | |
|--------------------------------|-----------------------------------|
| <u>Psammolyce globula</u> | <u>Lumbrineris</u> sp. B |
| <u>Sthenelais</u> sp. | <u>Poecilochaetus bermudensis</u> |
| <u>Peisidice bermudensis</u> | <u>Flabelligera</u> sp. |
| ? <u>Dysponetus</u> sp. | <u>Ophelia profunda</u> |
| <u>Pareurythoe</u> sp. | <u>Clymenura cirrata</u> |
| <u>Notalia</u> sp. | <u>Boquella ornata</u> |
| <u>Hesiocaeaca bermudensis</u> | <u>Jasmineira bermudensis</u> |
| <u>Lumbrineris</u> sp. A | terebellid, abranchiate |

The polychaete fauna of the equatorial region is represented in four samples coming from 520 to 4825 m. They are:

| | |
|-----------------------|-----------------------|
| Ch 33 with 45 species | Ch 34 with 42 species |
| Ch 12 " 52 " | A 155 " 42 " |

Total number of species is about 121. Highest numbers come from Sta. Ch 12, in 770-805 m, and largest numbers of specimens from Sta. Ch 33, in 520-550 m. The total number of species is about the same from shallowest to greatest depths. The kinds of species differ only slightly from those in more northern localities; three species, Buskiella borealis, Prionospio delta, and Terebellides lobatus, are unique to the area.

The benthic polychaete fauna along the axis of the Gulf Stream is represented in eight samples coming from latitudes between 37° to 40° N, and in depths of 3742 to 4540 m. They are:

- II 1, in 3742 m, with 13 species and 56 specimens;
- II 2, in 3753 m, with 16 species and 90 specimens;
- A 95, in 3753 m, with 68 species and 1253 specimens;
- A 126, in 3806 m, with 43+ species and about 3000 specimens;
- Ch 78, in 3838 m, with 12 species and 67 specimens;
- Ch 85, in 3834 m, with 37 species and 439 specimens;
- JJ 1, in 4436 m, with about 21 species and 156 specimens; and
- JJ 3, in 4540 m, with about 13 species and 58 specimens.

The dominant taxa differ with sample; in Sta. A 95 it is spionids, whereas in Sta. A 126 it is a maldanid and myriochelids. A small paraonid, Paraonides monilaris, is consistently present.

The benthic polychaetes in the northern end of the Sargasso Sea are represented in eleven samples:

OO 2, in 4667 m, with 15 species and 32 specimens;
KK 4, in 4773 m, with 15 species and 26 specimens;
A 121, in 4800 m, with 29 species and 267 specimens;
A 122, in 4833 m, with 38 species and 414 specimens;
KK 1, in 4850 m, with 19 species and 69 specimens;
Ch 100, in 4892-4743 m, with 48 species and 302 specimens;
LL 1, in 4977 m, with 14 species and 32 specimens;
Ch 83, in 5000 m, with 24 species and 70 specimens;
MM 1, in 5001 m, with 10 species and 17 specimens;
A 93, in 5007 m, with 25 species and 103 specimens; and
A 120, in 5023-5018 m, with 38 species and 227 specimens.

ZOOGEOGRAPHICAL COMPARISON OF ABYSSAL POLYCHAETES

Deep water and abyssal polychaetes of two widely separated geographic areas have now been studied in sufficient detail to make possible a comparison of their phylogenetic compositions. These areas are the northwest North Atlantic Ocean, from New England to the northern end of the Sargasso Sea, and the Antarctic Ocean, in latitudes higher than 50° S. The results are not altogether parallel, for the objectives and techniques differed widely. The North Atlantic fauna is more completely known for the smaller species which occur in soft bottoms, whereas the Antarctic fauna is known for its larger forms from a variety of bottoms. The first is based on samples taken with a quantitative

sampler and screened with a fine mesh wire, and thus represents an unusually high number of minute forms such as paraonids, syllids, spionids, and other minute species. The Antarctic samples were taken chiefly with trawls and dredges, coming from mixed and rocky as well as muddy bottoms, and taken over a long period of years by staffs not particularly concerned with recovering the small forms. It should be stressed, therefore, that the North Atlantic fauna may not be well enough known for its larger or macroscopic animals, whereas the Antarctic fauna may remain unknown for its smaller forms.

A comparison of 141 species from the Atlantic and 102 from the Antarctic area shows that there are remarkably few on generic and specific levels common to both areas. Only nine, or 3.7 per cent of the total number, can be considered widely dispersed or possibly cosmopolitan (preceded by c on the list). The records are taken from Hartman (1964 to 1967).

North Atlantic Ocean

Antarctic Ocean

POLYNOIDAE

| | |
|---------------------------|----------------------------------|
| <u>Antinoana fusca</u> | <u>Antinoella abyssicola</u> |
| <u>Eunoe cf spinulosa</u> | <u>Austrolaenilla antarctica</u> |
| | <u>Eunoe abyssorum</u> |
| | <u>Harmothoe crosetensis</u> |
| | <u>Herdmanella nigra</u> |
| | <u>Lepidofimbria oculata</u> |
| | <u>Lepidoqyra alba</u> |
| | <u>Macellicephala eltanina</u> |
| | <u>Macellicephala nationalis</u> |
| | <u>Polyeunoa rhombigera</u> |

SIGALIONIDAE

| |
|----------------------|
| <u>Ieanira minor</u> |
|----------------------|

North Atlantic Ocean

Antarctic Ocean

SIGALIONIDAE (cont.)

Pholoe anoculata

PISIONIDAE

Pisionura abyssorum

CHRYSOPETALIDAE

Dysponetus gracilis

AMPHINOMIDAE

Paramphinome jeffreysiiParamphinome australis

PHYLLODOCIDAE

Austrophyllum maculatumAustrophyllum charcotiEulalia anoculataParanaitis wahlbergiPirakia lanceolataPseudomystides limbata
punctata

HESIONIDAE

Hesiocaeca bermudensis

PILARGIDAE

c Ancistrosyllis groen-
landicaAncistrosyllis cf groenlandicaSigambra tentaculataSynelmis albini

SYLLIDAE

Braniella pupaBraniella palpataExogone disparExogonita oculataLangerhansia anoculata

NEREIDAE

Ceratocephale loveniEunereis patagonicaCeratonereis versipedataNicon abyssalis

North Atlantic Ocean

Antarctic Ocean

NEREIDAE (cont.)

*Nereis caecoides**Neanthes abyssorum*

NEPHTYIDAE

*Aqlaophamus groenlandiae**Aqlaophamus digitatus**Aqlaophamus*, acirrate*Aqlaophamus foliosus**Nephtys hystricis**Aqlaophamus posterobranchus**Nephtys paradoxa**Nephtys ferruginea*

SPHAERODORIDAE

*Clavodorum atlanticum**Sphaerodorum parvum**Ephesiella macrocirris**Sphaerodoridium antarcticum**Sphaerodoropsis corrugata**Sphaerodoropsis elegans**Sphaerodoropsis longipalpa*

GLYCERIDAE

*Glycera mimica**Glycera tesselata*

GONIADIDAE

*Glycinde profunda**Progoniada regularis*

ONUPHIDAE

*Nothria textor**Nothria abranchiata**Paranorthia atlantica**Nothria armandi**Paronuphis bermudensis**Nothria nr conchylega**Rhamphobrachium agassizi**Nothria notialis**Paranorthia antarctica**Paronuphis benthaliana**Onuphis paucibranchis*

EUNICIDAE

Eunice sp.*Eunice norvegica*

North Atlantic Ocean

Antarctic Ocean

LUMBRINERIDAE

Lumbrineris atlantica
Lumbrineris crassicephala
Lumbrineris latreilli
Lumbrineris paradoxa
Ninoe brevipes
Ninoe dibranchia
Ninoe gayheadia

Lumbrineris antarctica
Lumbrineris magalhaensis

MYZOSTOMIDAE

Myzostomum compressum
Myzostomum cysticolum
Stelechopus hydrocrini

ORBINIIDAE

Califia schmitti
Haploscoloplos sp.
Microrbinia linea
Naineris quadricuspida
 orbiniid, unknown

Califia chilensis
Haploscoloplos abranchiata
Haploscoloplos kerqueiensis
Orbiniella drakei
Scoloplos (L.) marginatus

PARAONIDAE

c Aedicira belgicae
Aedicira parva
Aparaonis abyssalis
Aricidea neosuecica
Aricidea tetrabranchia
Paradoneis abranchiata
Paraonides monilaris
Paraonides rubriceps
Paraonis cornatus
Paraonis reductus

Aedicira belgicae
Aricidea uschakovi
Paraonis abranchiata

North Atlantic Ocean

Antarctic Ocean

PARAONIDAE (cont)

Paraonis uncinatus

SPIONIDAE

Laonice antarcticaePrionospio steenstrupiSpiophanes kroyeri

spionid, aberrant

MAGELONIDAE

Magelona capax

DISOMIDAE

Disoma watsoni

POECILOCHAETIDAE

Poecilochaetus bermudensis

HETEROSPIONIDAE

Heterospio longissima

CIRRATULIDAE

c Chaetozone setosaChaetozone setosaChaetozone gayheadiac Tharyx annulosusTharyx annulosusc Tharyx marioniTharyx marioniTharyx nigrostrum

COSSURIDAE

Cossura longocirrataCossura abyssalis

CTENODRILIDAE

Zeppelinina prolonga

FLABELLIGERIDAE

Fauveliopsis brevisBrada gravieriFauveliopsis glabraBrada bransfieldiaFauveliopsis scabraFauveliopsis challengeriae

North Atlantic Ocean

Antarctic Ocean

FLABELLIGERIDAE (cont)

| | |
|--------------------------------|--|
| <u>Flabelligella minutu</u> | <u>Fauveliopsis</u> sp. |
| <u>Flabelligella papillata</u> | <u>Flabelligella</u> nr <u>papillata</u> |
| <u>Ilyphagus octobranchus</u> | <u>Flota flabelligera</u> |
| | <u>Ilyphagus wyvillei</u> |
| | <u>Pherusa sarsi</u> |

SCALIBREGMIDAE

| | |
|------------------------------------|------------------------------------|
| <u>Asclerocheilus beringianus</u> | <u>Proscalibregma linea</u> |
| <u>Asclerocheilus intermedius</u> | <u>Pseudoscalibregma aciculata</u> |
| <u>Neolipobranchius glabrus</u> | scalibregmid, stalked |
| <u>Pseudoscalibregma aciculata</u> | |
| <u>Pseudoscalibregma parva</u> | |
| <u>Scalibregma inflata</u> | |
| <u>Scalibregmella antennata</u> | |
| <u>Scalispinigera cirrata</u> | |
| <u>Sclerobregma branchiata</u> | |

OPHELIIDAE

| | |
|--------------------------------------|-------------------------------|
| <u>Ammotrypane abranchiata</u> | <u>Ammotrypane nematoides</u> |
| <u>Ammotrypane ?aulogaster</u> | <u>Euzonus profundus</u> |
| <u>Ammotrypane aulogastrella</u> | <u>Kesun abyssorum</u> |
| <u>Ammotrypane chaetifera</u> | <u>Travisia profundi</u> |
| <u>Ammotrypane cylindricaundatus</u> | <u>Travisia antarctica</u> |
| <u>Ammotrypanella arctica</u> | <u>Travisia nigrocincta</u> |
| <u>Kesun gravieri</u> | |
| <u>Tachytrypane jeffreysii</u> | |

CAPITELLIDAE

| |
|---------------------------------------|
| <u>Barantolla</u> nr <u>americana</u> |
|---------------------------------------|

North Atlantic Ocean

Antarctic Ocean

CAPITELLIDAE (cont)

- Capitella nr capitata
Capitella aberranta
Notomastus latericeus
Notomastus teres

MALDANIDAE

- | | |
|---|---|
| <u>Isocirrus</u> <u>planiceps</u> | <u>Abyssoclymene</u> <u>annularis</u> |
| <u>Lumbriclymene</u> <u>nasuta</u> | <u>Lumbriclymenella</u> <u>robusta</u> |
| c <u>Maldane</u> <u>sarsi</u> | <u>Maldane</u> <u>sarsi</u> |
| c <u>Nicomache</u> <u>lumbricalis</u> | <u>Nicomache</u> <u>lumbricalis</u> |
| <u>Notoproctus</u> <u>abyssus</u> | <u>Notoproctus</u> <u>oculatus</u> <u>antarcticus</u> |
| <u>Notoproctus</u> <u>oculatus</u> , anoculate | <u>Praxillella</u> <u>abyssorum</u> |
| <u>Praxillella</u> <u>gracilis</u> | |
| <u>Praxillella</u> <u>praetermissa</u> | |

OWENIIDAE

- Myriochele nr heeri
Myriochele ?pygidialis
Owenia ?fusiformis

BOGUEIDAE

- Boquella ornata

SABELLARIIDAE

- c Phalacrostemma elegans

AMPHARETIDAE

- Ampharete arctica
Amphicteis gunneri
Amphicteis sargassoensis
Amphicteis vestis
Amphicteis trichophora

- Myriochele sp.

- Myrioglobula antarctica

- Petta assimilis

- Phalacrostemma ?elegans

- Amage ?sculpta

- Ampharete ?kerquelensis

- Ampharana antarctica

- Amphicteis gunneri antarctica

- Anobothrella antarctica

North Atlantic Ocean

Antarctic Ocean

AMPHARETIDAE (cont)

| | |
|------------------------------------|----------------------------------|
| <u>Anobothrus gracilis</u> | |
| c <u>Glyphanostomum pallescens</u> | <u>Glyphanostomum pallescens</u> |
| <u>Melinnata americana</u> | <u>Grubianella antarctica</u> |
| <u>Neopaiwa c irrita</u> | <u>Melinna buskii</u> |
| <u>Phyllampharete longicirra</u> | <u>Melinnantipoda antarctica</u> |
| <u>Samythella elongata</u> | <u>Melinnexis collaris</u> |
| | <u>Neosabellides elongata</u> |
| | <u>Neosamytha gracilis</u> |
| | <u>Weddellia profunda</u> |

TEREBELLIDAE

| | |
|--------------------------------|------------------------------|
| <u>Amaeana trilobata</u> | <u>Eupistella grubei</u> |
| <u>Euthelepus abranchiatus</u> | <u>Hauchiella sp.</u> |
| <u>Laphania boecki</u> | <u>Leaena antarctica</u> |
| <u>Leaena minima</u> | <u>Pista abyssicola</u> |
| <u>Terebellides lobatus</u> | <u>Pista spinifera</u> |
| <u>Terebellides stroemii</u> | <u>Pista mirabilis</u> |
| <u>Unobranchus abyssalis</u> | <u>Terebellides sp.</u> |
| | <u>Thelepus ?cincinnatus</u> |
| | <u>Thelepides koehleri</u> |
| | <u>Ampharetides hoffeni</u> |

SABELLIDAE

| | |
|------------------------------|---------------------------|
| <u>Euchone incolor</u> | <u>Potamethus scotiae</u> |
| <u>Jasmineira sp.</u> | |
| <u>Potamethus singularis</u> | |

SERPULIDAE

| | |
|----------------------------------|-------------------------|
| <u>Filogranula sp.</u> | <u>Apomatus brownii</u> |
| <u>Spirodiscus grimaldii</u> | |
| <u>Vermiliopsis ?langerhansi</u> | |

Chronological List of Stations, 1961-1966,
with reference to number of station, by depth

- May 21, 1961. Sta. HH 3. See no. 28.
- May 22, 1961. Sta. II 1. See no. 29b.
- May 24, 1961. Sta. F 1, G 1, II 2. See nos. 14, 16, 29c.
- May 25, 1961. Sta. C 1, E 3. See nos. 1, 10.
- Aug. 10, 1961. Sta. KK 1. See no. 42.
- Sep. 27, 1961. Sta. GH 1. See no. 21.
- Sep. 28, 1961. Sta. LL 1. See no. 45.
- Oct. 2, 1961. Sta. JJ 1. See no. 33.
- Oct. 3, 1961. Sta. GH 3, GH 4. See nos. 19b, 19a.
- May 23, 1962. Sta. D 1. See no. 6.
- May 25, 1962. Sta. JJ 3. See no. 33b.
- May 27, 1962. Sta. OO 2. See no. 34a.
- Aug. 28, 1962. Sta. S1 2, S1 3, S1 4. See nos. 3, 4, 5.
- Apr. 6, 1963. Sta. Ch 12. See no. 9.
- Apr. 25, 1963. Sta. Ch 33, Ch 34, Ch 35. See nos. 7, 15, 33a.
- Sep. 7, 1963. Sta. A 58. See no. 17.
- Aug. 21, 1964. Sta. A 62, A 63, A 64, A 65, A 66. See nos. 20, 26, 25, 27, 22.
- Aug. 23, 1964. Sta. A 69, A 70. See nos. 34, 35.
- Aug. 24, 1964. Sta. A 71, A 72. See nos. 29, 24.
- Aug. 25, 1964. Sta. A 73. See no. 13.
- June 29, 1965. Sta. Ch 75, Ch 76. See nos. 29a, 23.
- June 30, 1965. Sta. Ch 77, Ch 78. See nos. 31a, 31b.
- July 4, 1965. Sta. Ch 84. See no. 36.
- July 5, 1965. Sta. Ch 85. See no. 32.
- July 6, 1965. Sta. Ch 87, Ch 89. See nos. 11, 2.
- Dec. 17, 1965. Sta. A 95. See no. 30.
- May 4, 1966. Sta. Ch 103. See no. 18.

- May 5, 1966. Sta. Ch 105. See no. 8.
- Aug. 9, 1966. Sta. A 112. See no. 28a.
- ~ Aug. 18, 1966. Sta. A 118. See no. 12.
- Aug. 19, 1966. Sta. A 119. See no. 19.
- Aug. 21, 1966. Sta. A 121. See no. 38.
- Aug. 23, 1966. Sta. A 125. See no. 39.
- ~ Aug. 24, 1966. Sta. A 126. See no. 31.

Station List for Atlantis and Chain Cruises

| Sta. no. | Latitude | Longitude | Depth in m. |
|-----------|----------------------------|----------------------------|-------------|
| 1. C 1 | 40° 20' 30" N | 70° 47' W | 97 |
| 2. Ch 89 | 40° 01.6' N | 70° 40.7' W | 196 |
| 3. S1 2 | 40° 01.8' N | 70° 42' W | 200 |
| 4. S1 3 | 39° 58' 24" N | 70° 40' 18" W | 300 |
| 5. S1 4 | 39° 56' 30" N | 70° 39' 54" W | 400 |
| 6. D 1 | 39° 54' 30" N | 70° 35' W | 466.7-508.7 |
| 7. Ch 33 | 07° 52' to 07° 55' N | 54° 31.5' W to 54° 35' W | 520-550 |
| 8. Ch 105 | 39° 56.6' N | 71° 03.6' W | 530 |
| 9. Ch 12 | 07° 09' S to 07° 08' S | 34° 25.5' W to 34° 25.0' W | 770-805 |
| 10. E 3 | 39° 50' 30" N | 70° 35' W | 823.5 |
| 11. Ch 87 | 39° 48.7' N | 70° 40.8' W | 1102 |
| 12. A 118 | 32° 19.4' to 32° 19.0' N | 64° 34.9' W to 64° 34.8' W | 1135-1153 |
| 13. A 73 | 39° 46.5' N | 70° 43.3' W | 1470-1330 |
| 14. F 1 | 39° 47' N | 70° 45' W | 1500 |
| 15. Ch 34 | 08° 45.5' N to 08° 46.5' N | 53° 44.0' W to 53° 48.0' W | 1500 |
| 16. G 1 | 39° 42' N | 70° 39' W | 2000 |

| Sta. No. | | Latitude | Longitude | Depth in m. |
|----------|--------|--------------------------|----------------------------|-------------|
| 17. | A 58 | 38° 34.3' N | 72° 55.0' W | 2000+75 |
| 18. | Ch 103 | 39° 43.6' N | 70° 37.4' W | 2022 |
| 19. | A 119 | 32° 15.8' to 32° 16.1' N | 64° 31.6' W to 64° 32.6' W | 2095-2223 |
| 20. | A 62 | 39° 26' N | 70° 33' W | 2496 |
| 21. | GH 1 | 39° 25' 30" N | 70° 35' W | 2500 |
| 22. | A 66 | 38° 46.7' N | 70° 08.8' W | 2802 |
| 23. | Ch 76 | 39° 38.3' N | 67° 57.8' W | 2862 |
| 24. | A 72 | - | 71° 47' W | 2864 |
| 25. | A 64 | 38° 46' N | 70° 06' W | 2886 |
| 26. | A 63 | 38° 46.8' N | 70° 05.7' W | 2891 |
| 27. | A 65 | 38° 46.8' N | 70° 06.8' W | 2891 |
| 28. | HH 3 | 38° 47' N | 70° 08' W | 2900 |
| 29. | A 71 | 38° 08' N | 71° 47.5' W | 2946 |
| 30. | A 95 | 38° 33' N | 68° 32' W | 3753 |
| 31. | A 126 | 39° 37.0' to 39° 37.5' N | 66° 47.0' W to 66° 44.0' W | 3806 |
| 32. | Ch 85 | 37° 59.2' N | 69° 26.2' W | 3834 |
| 33. | JJ 1 | 37° 27' N | 68° 41' W | 4436 |
| 34. | A 69 | 36° 15' N | 67° 51' W | 4663 |

| Sta. No. | | Latitude | Longitude | Depth in m. |
|----------|--------|--------------------------|----------------------------|-------------|
| 35. | A 70 | 36° 23' N | 67° 58' W | 4680 |
| 36. | Ch 84 | 36° 24.4' N | 67° 56' W | 4749 |
| 37. | KK 4 | 36° 24.7' N | 68° 10.3' W | 4719 |
| 38. | A 121 | 35° 50.0' N | 65° 11.0' W | 4800 |
| 39. | A 125 | 37° 24.0' to 37° 26.0' N | 65° 54.0' to 65° 50.0' W | 4825 |
| 40. | A 155 | 00° 03.0' S | 27° 48.0' W | 3730-3783 |
| 41. | A 122 | 35° 50.0' to 35° 52.0' N | 64° 57.5' W to 64° 58.0' W | 4833 |
| 42. | KK 1 | 36° 23' 30" N | 68° 04' 30" W | 4850 |
| 43. | A 124 | 37° 26.0' to 37° 25.0' N | 63° 59.5' W to 63° 58.0' W | 4862 |
| 44. | Ch 100 | 33° 56.8' N | 65° 47' W | 4892-4743 |
| 45. | LL 1 | 35° 35' N | 67° 25' W | 4977 |
| 46. | Ch 83 | 34° 46.5' N | 66° 30' W | 5000 |
| 47. | A 93 | 34° 39' N | 66° 26' W | 5007 |
| 48. | A 120 | 34° 43.0' to 34° 40.5' N | 66° 32.8' W to 66° 35.0' W | 5018-5023 |

Additional Station Data

| | Sta. no. | Latitude | Longitude | Depth in m. |
|------|----------|---------------|---------------|-------------|
| 19a. | GH 4 | 39° 29' N | 70° 34' W | 2469 |
| 19b. | GH 3 | 39° 27' 30" N | 70° 33' W | 2478 |
| 28a. | A 112 | 38° 50.4' N | 69° 54.7' W | 2900 |
| 29a. | Ch 75 | 39° 32.5' N | 68° 06' W | 2961 |
| 29b. | II 1 | 37° 59' N | 69° 32' W | 3742 |
| 29c. | II 2 | 38° 05' N | 69° 36' W | 3752 |
| 31a. | Ch 77 | 38° 00.7' N | 69° 16' W | 3806 |
| 31b. | Ch 78 | 38° 00.8' N | 69° 18.7' W | 3828 |
| 33a. | Ch 35 | | | 4525 |
| 33b. | JJ 3 | 37° 13' 06" N | 68° 39' 36" W | 4540 |
| 34a. | OO 2 | 33° 67' N | 65° 02' 12" W | 4667 |

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PLATE 1

Antinoana fusca, new genus, new species (Ch 87)

- a. Anterior end with elytra removed, in dorsal view, x 17.
- b. Parapodium 12, in anterior view, x 44.
- c. Elytrum from setiger 11, in dorsal view, x 42.
- d. Shortest notoseta from parapodium 12, x 195.
- e. Longest notoseta from parapodium 12, in lateral view, x 195.
- f. Inferiormost neuroseta from parapodium 12, x 195.
- g. Superiormost neuroseta from parapodium 12, x 195.
- h. Tip of superiormost neuroseta, in lateral view, x 1580.

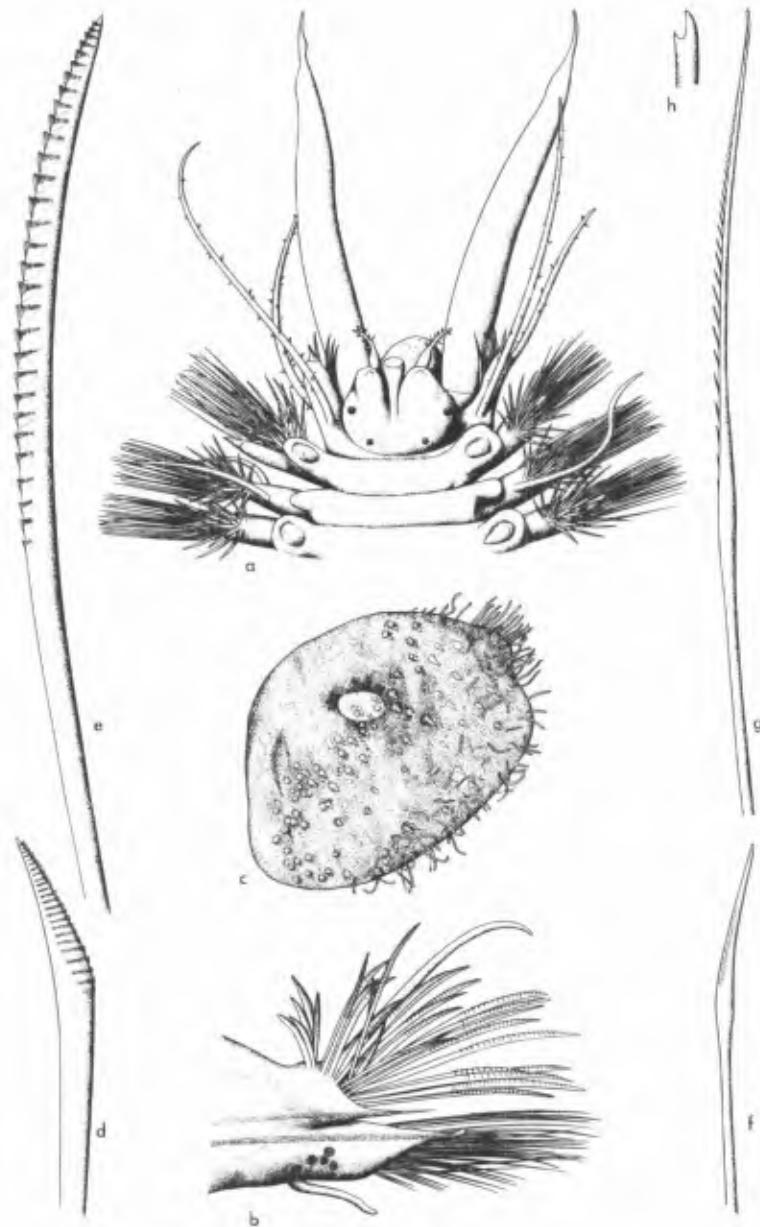


PLATE 2

Peisidice bermudensis, new species (A 118)

- a. A median elytrrophoral parapodium, elytrum removed, in anterior view, x 150.
- b. A median elytrum, in dorsal view, x 112.
- c. Notoseta with lateral spines, in lateral view, x 810.
- d. A long-appendaged neuroseta, x 810.
- e. A short-appendaged neuroseta, x 810.

Pholoe anoculata Hartman (S1 4)

- f. Elytrum from a median segment, x 180.
- g. Superior composite falciger, x 810.
- h. Inferior composite falciger, x 810.

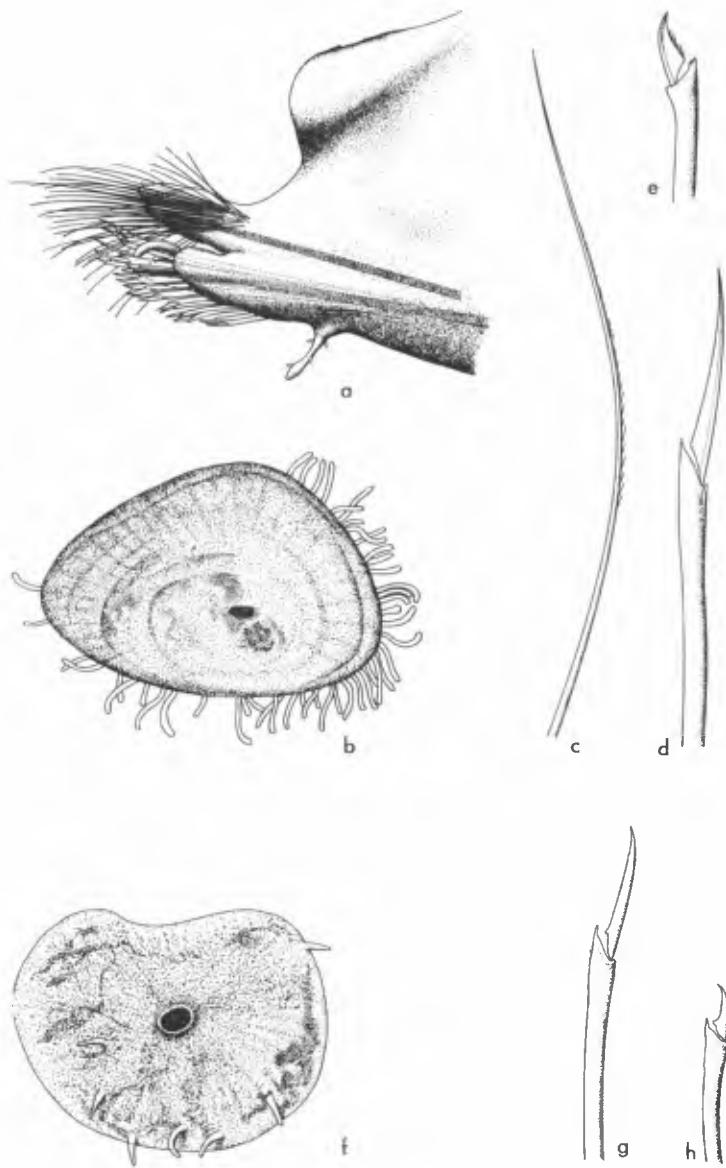


PLATE 3

Cirrodoce cristata, new genus, new species (Ch 89)

- a. Anterior end with prostomium and first seven setigers, x 36.
- b. Postmedian segments, with dorsal cirri reconstructed, in dorsal view, x 48.
- c. Composite spiniger from a postmedian segment, x 600.

Psammolyce globula, new species (A 118)

- d. Short-appendaged falciger, in lateral view, x 600.
- e. Long-appendaged falciger, in lateral view, x 600.
- f. Distal end of spinose notoseta, x 600.

Sthenelais sp. (A 119)

- g. Neuropodial falciger, with two distal articles, x 600.
- h. Multi-articled neuropodial falciger, x 600.

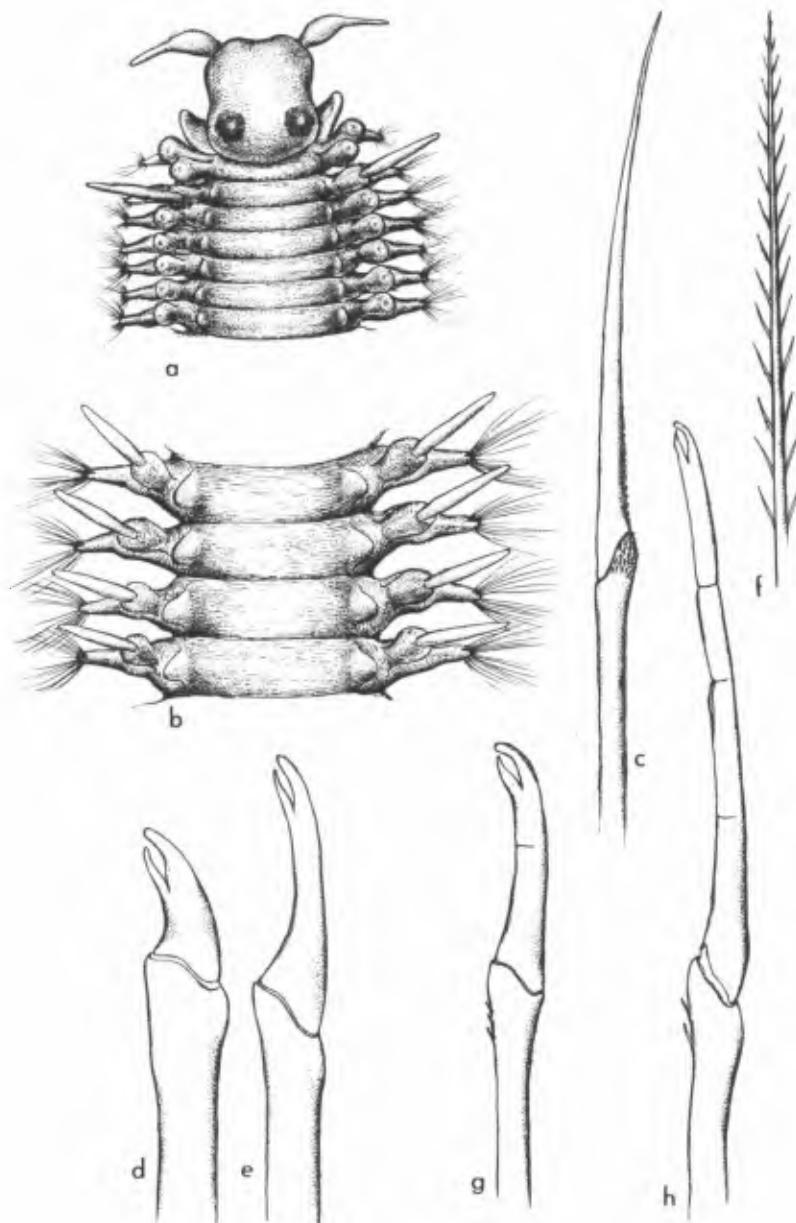


PLATE 4

Pisionura abyssorum, new genus, new species (A 120)

- a. Anterior end with first three asetigerous and first three setigerous segments, showing embedded pharynx, in dorsal view, x 140.
- b. Parapodium 9, showing biramous lobes and projecting composite spinigers, x 500.

Glycinde profunda, new species (A 121)

- c. Anterior end through fourth setiger, showing non-annulated prostomium, in ventral view, x 112.
- d. Parapodium 50, with notosetae and neurosetae, in posterior view, x 140.
- e. Distal end of inferiormost seta showing articulation, x 836.



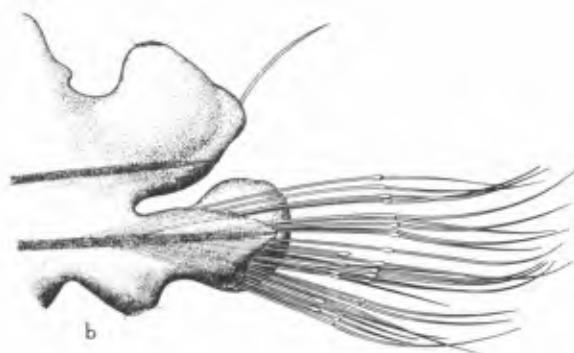
PLATE 5

Austrophylloides maculatum, new species (A 70)

- a. Anterior end with prostomium and adjacent parts, in dorsal view, x 52.
- b. Median parapodium, lacking dorsal and ventral cirri, in anterior view, x 66.
- c. Composite seta from a median parapodium, in lateral view, x 460.
- d. Articulation of composite seta, x 1360.



a



b



c



d

PLATE 6

Eulalia anomulata, new species (Ch 87)

- a. Anterior end including first six segments, in dorsal view, x 83.
- b. Posterior end with last two segments, in dorsal view, x 83.
- c. Median parapodium, in anterior view, x 150.
- d. Composite seta from a median parapodium, in three-quarter view, x 450.

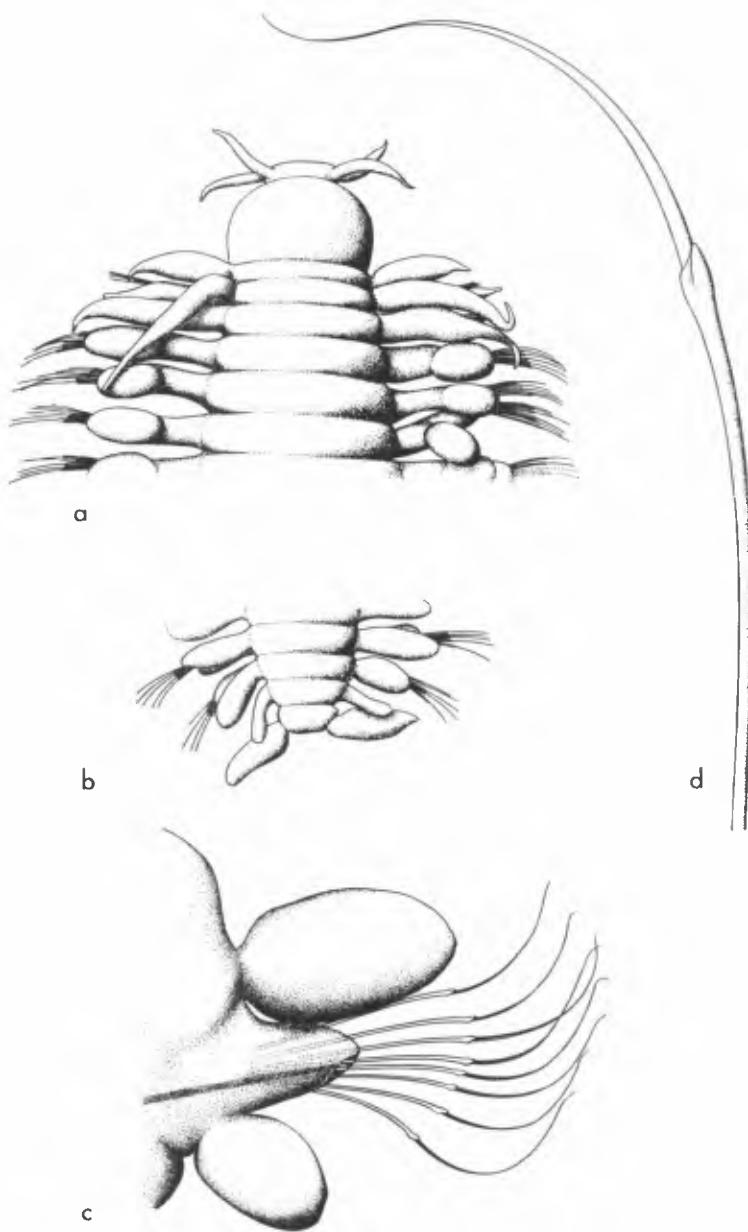


PLATE 7

Pirakia lanceolata, new species (A 73)

- a. Anterior end through sixth segment, with proboscis extended, in dorsal view, x 26.
- b. A median parapodium, in anterior view, x 54.
- c. A composite seta, in lateral view, x 324.
- d. A composite seta, in frontal view, x 324.