NEW ENGLAND ANNELIDA
PART 2

INCLUDING THE UNPUBLISHED PLATES BY VERRILL WITH RECONSTRUCTED CAPTIONS

OLGA HARTMAN

BULLETIN
OF THE
AMERICAN MUSEUM OF NATURAL HISTORY
VOLUME 82 : ARTICLE 7 NEW YORK : 1944

NEW ENGLAND ANNELIDA. PART 2

NEW ENGLAND ANNELIDA. PART 2

•

INCLUDING THE UNPUBLISHED PLATES BY VERRILL WITH RECONSTRUCTED CAPTIONS

OLGA HARTMAN
Allan Hancock Foundation
University of Southern California

BULLETIN
OF THE
AMERICAN MUSEUM OF NATURAL HISTORY
VOLUME 82 : ARTICLE 7 NEW YORK : 1944

BULLETIN OF THE AMERICAN MUSEUM OF NATURAL HISTORY
Volume 82, article 7, pages 327–344, plates 45–60

Issued April 15, 1944

INTRODUCTION

"NEW ENGLAND ANNELIDA" was the title assigned to a comprehensive projected study by the late Prof. A. E. Verrill, eminent zoologist at Yale University, on the polychaetous annelids of eastern North America. The original plans provided for two parts. The first was published in 1881, in volume 4 of the Transactions of the Connecticut Academy of Sciences. The second or final part never appeared, but proofs of numerous plates have been found, showing that an effort had been made toward the final publication of this part. The present report is an attempt to reconstruct this part, in the light of more recent researches on the annelids, and especially to bring to publication the remainder of Verrill's plates.

The first part of "New England Annelida" (1881) gives a historical summary of reports concerned with references to annelids from New England, and northward through eastern Canada (McIntosh reports), Greenland (Stimpson report and others) and the Cumberland Gulf (Verrill report), together with ten plates (numbered 3 to 12) and their legends. The summaries are in some instances annotated with explanations or synonyms, and in a few cases new names for genera or species are designated. Three new genera and several new specific names are erected, without descriptions. Furthermore, the ten plates with their captions have no connection with the text and could as well have appeared without it. Many of the illustrated species were described in numerous earlier reports, but unfortunately there is no reference on the plates where the descriptions occur. They can, therefore, be matched only by search through many short papers, sometimes by resort to footnotes. In addition, there is only rarely reference in the descriptions where the figures are to be found, or if there are any. The proposed second part of "New England Annelida" was perhaps designed to clarify the scattered references and bring in line the figures and explanations to the numerous species.

Already in 1880 (Proc. U. S. Natl. Mus., vol. 2, p. 165), Verrill had signaled his intention for a complete account of the annelids of New England, for he says, "More detailed descriptions and numerous figures will be published in the final reports, together with the details of their geographic distribution." These desires were never fulfilled. In this 1880 report alone, 27 species are newly described or named, and one other (*Streblospio benedicti* Webster) is inferred and partly described (1880, p. 176) but not named. None of these species was illustrated at this time. Again in 1885 (Proc. U. S. Natl. Mus., vol. 8) 18 species are named or described, without figures, but reference is made to unpublished plates 14, 15, 17, 20, 21, 23, 24, 25, and 27 (*sic*—a plate numbered 27 has not been found but later numbers do exist).

In the Introduction to part 1, "New England Annelida," page 287, Verrill again refers to a second part: "Although a considerable number of changes in the nomenclature of the annelids included in the first edition of the Check-list [1879, "Preliminary check-list of the marine Invertebrata . . ."] have become necessary or desirable, and may be adopted in the second, or systematic part of the present paper" (never published). This survey of the literature included the citation of an unpublished plate (1881, p. 301). It was followed almost immediately (November, 1882) by additional descriptions of species of Syllidae and a species of Cirratulidae (Amer. Jour. Sci., vol. 24, pp. 367–370) for which no figures were given, but again reference was made to unpublished plates 13, 14, 19, 24, and 25. There were no other annelid reports after 1885, except for those on the Bermuda annelids (1900 and 1901, Trans. Connecticut Acad. Sci., vols. 10 and 11) for which no figures or plates were ever published save for photographs of *Pectinaria regalis* (*ibid.*, vol. 11, pl. 8, figs. 6, 7) and *Fallacia protochona* (*sic*) Schmarda (*ibid.*, vol. 11, pl. 8, fig. 5). In this 1900 report, 57 species including 27 Syllidae are newly, though briefly, described, with the following explanation in a footnote (p. 600): "The illustrations of these species could not be finished in time for publication in this article. They will be published in vol. xi of these Transactions in connection with the full report on the Annelida." These commitments could never be fulfilled.

Among notes left by Verrill, deposited in

the American Museum of Natural History, were some photographs of the Bermuda syllids, but they are totally inadequate to clarify the character of the species concerned. They are microphotographs made from whole mounted specimens, which had not been oriented or dissected in mounting, and in which the parts are altogether incomprehensible. The slides from which the photographs were made are now deposited in the Peabody Museum of Natural History at Yale University (see Hartman, 1942, Bull. Bingham Oceanogr. Coll., vol. 8). One set of illustrations made by Verrill is of interest since it portrays "*Phyllodoce*" (*Genetyllis bermudae*, Hartman, 1942, *tom. cit.*, p. 38). These original figures are herewith reproduced with reconstructed captions (pl. 35 [60]).

The second part of "New England Annelida," which was obviously designed to include diagnoses and descriptions of species together with complete synonymies and illustrations, has remained unpublished, although reference to the plates and figures of some species was actually made, and the plates partially prepared. While I was at the Peabody Museum of Natural History in Yale University during the spring of 1940, Dr. Stanley C. Ball showed me numerous proofs of plates 23, 24, 25, 33, and 34. No other proofs, plates, notes, or other pertinent data could be located at that time. After my report on Verrill's annelid types (Hartman, 1942, *loc. cit.*) was distributed, Dr. Roy W. Miner of the American Museum of Natural History informed me of the existence of proofs of plates 13 to 25 and 33 and 34, in addition to the notes on Bermuda annelids, mentioned above. Since this list is believed to comprise probably all the projected plates (although one, number 27 earlier mentioned, has not turned up) it has been deemed worth while to issue them with captions, and in so far as it is possible to reconstruct them, even though some legends will be tentative, doubtful, or even lacking.

Regarding the number of plates that were prepared for this set, I have obtained additional information from Mr. George E. Verrill, son of Professor Verrill, now residing in Santa Barbara, California, anent the disposal of his father's effects. Mr. Verrill says in part (in litt.) of the will of his father: "By his will he left to me all his scientific material. . . . Shortly before his death father dictated to Mrs. Verrill some memoranda regarding his material at Yale, in which there are two items regarding annelids. In the list of material he named: 'Quantity of notes and descriptions of New England annelids with numerous drawings; also 20 or more fine plates printed by the Connecticut Academy. Text not in shape for publication.' Among the material to be sent to various institutions he lists: 'To the Conn. Acad. Arts and Sciences, New Haven, Conn.: About 100 copies of about 20 plates of annelids, to complete the Academy set.'" These are the 15 plates now under discussion and may actually constitute the entire lot.

It might be of further interest to note that Verrill is known to have prepared at least some (possibly many) descriptions of the annelids from the drawings, especially those based on living individuals, in so far as these illustrations were available. With the aid of the plates, therefore, the descriptions take on added value. There is, of course, the disadvantage that where a discrepancy between specimen and drawing occurs, the same error might be expected in the text.

The list of "New England Annelida" in part 1 is given chronologically, by author; thus species are repeated many times. In all, however, 292 names are noted, ranging from New England north to the Cumberland Gulf. These have been alphabetized and are given on pages 334 to 336, together with the page numbers on which they occur in part 1. This list is followed by a systematic grouping, pages 337 to 343, which gives the illustrations by Verrill and the present revised name, if any.

ACKNOWLEDGMENTS

I am indebted to Dr. Roy W. Miner, Curator Emeritus of the American Museum of Natural History, for having made the plates by Verrill available to me and for suggesting their completion, and to his colleague, Dr. Willard G. Van Name, Associate Curator Emeritus, for timely suggestions and help. Thanks are extended the Direction of the Peabody Museum of Natural History of Yale University for authorization to proceed with

publication. To Mr. George E. Verrill I owe the information regarding the wishes of his father in his will. Grateful acknowledgment is due the Director of the Allan Hancock Foundation, Dr. Allan Hancock, and to the President of the University of Southern California, Dr. Rufus B. von Klein Smid, for permission to publish these records.

Numbering of the Plates

A double numbering of the plates accompanying this paper was necessary for clarity. They can be identified as follows:

Verrill's Plate Number	Bulletin Volume 82 Plate Number
13	45
14	46
15	47
16	48
17	49
18	50
19	51
20	52
21	53
22	54
23	55
24	56
25	57
33	58
34	59
35	60

The number of the plate for this volume, when stated, is in brackets, after the Verrill number.

LIST OF SPECIES

THE FOLLOWING is an alphabetical list of the names of species as given by Verrill in "New England Annelida," part 1, and in his subsequent publications on New England annelids. The numbers refer to pages or plates in this part 1. The names followed by "1882 AJS" are to be found in the American Journal of Science, volume 24, 1882; those followed by "1885 PUSNM" are in the Proceedings of the United States National Museum, volume 8, 1885; those followed by "1885 RUSFC" are in the Report of the Commission of Fish and Fisheries for 1885. (A bibliography of Verrill's reports on marine annelids is given in Hartman, 1942, Bull. Bingham Oceanogr. Coll., vol. 8.)

The following is a list of the same species, in systematic grouping, indicating illustrations in parts 1 and 2 of "New England Annelida," together with the present revised name, if any. Those species preceded by an asterisk (*) are in Hartman (1942, Bull. Bingham Oceanogr. Coll., vol. 8); those preceded by a plus (+) are in Hartman (1942, Proc. U. S. Natl. Mus., vol. 92). Those preceded by an interrogation mark in brackets [?] may be indeterminable.

PLATES 45–60

PLATE 13 [45]

1. *Autolytus longisetosus.* Anterior end of male epitokous stage, in dorsal view, including six anterior and three natatory setigerous segments.

2. *Autolytus ? alexandri.* Anterior end of female epitokous stage showing six anterior and two natatory setigerous segments; 2a, composite seta; 2b, proboscis and pharynx.

3. *Autolytus varians.* Male epitokous stage showing five anterior and five natatory setigerous segments; 3a, composite seta.

4. *Autolytus ? cornutus.* Male epitokous stage showing five anterior and five natatory setigerous segments.

5. *Autolytus ornatus.* Anterior end of sedentary stage showing stolon after thirteenth setigerous segment.

6. *Autolytus ? cornutus.* Female epitokous stage showing six anterior and three natatory setigerous segments.

7. *Autolytus.* Early male epitokous stage.

8. *Autolytus alexandri.* Showing stolonization with five buds in tandem.

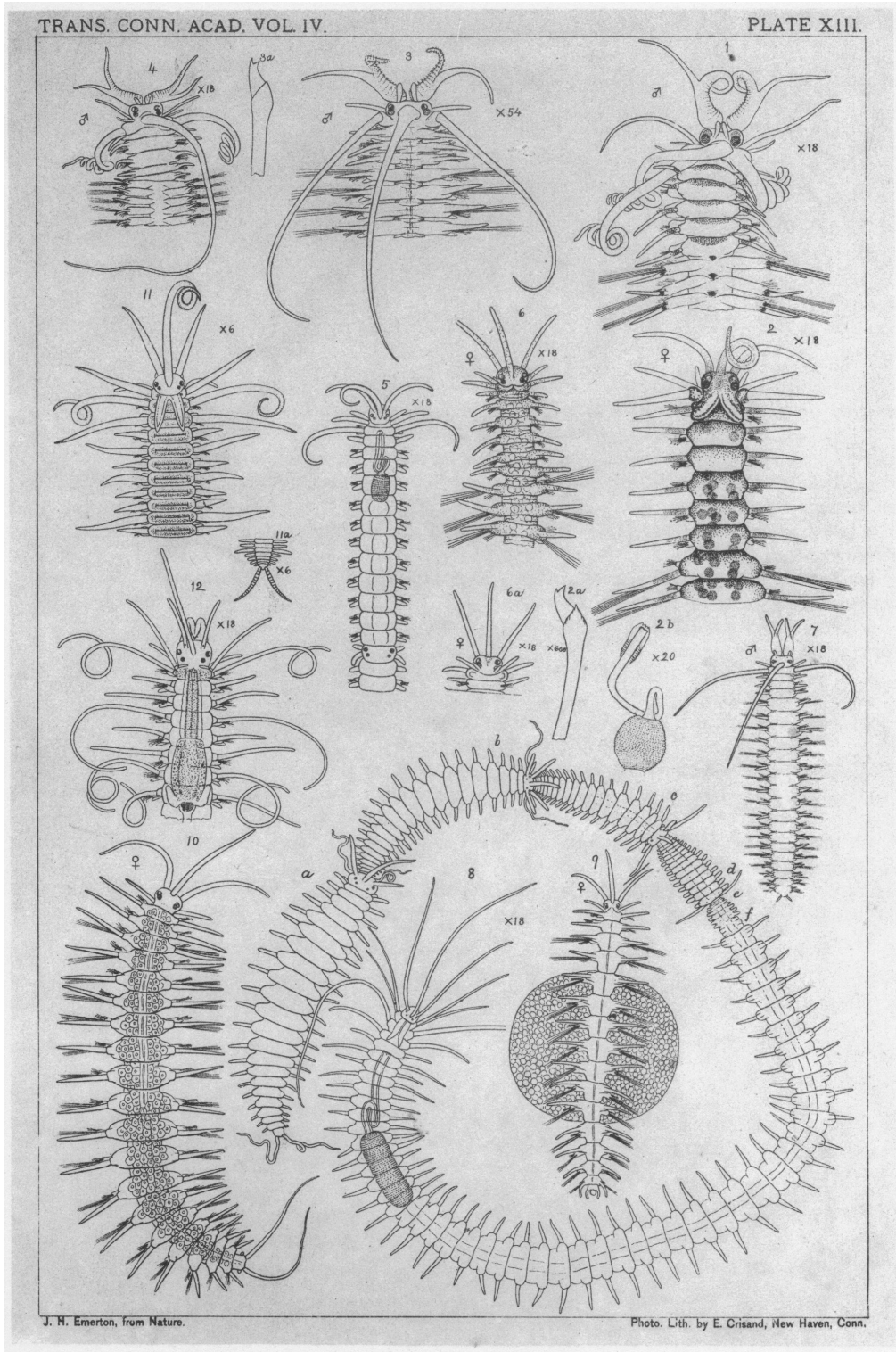
9. *Autolytus varians*, probably. This is "*Autolytus mirabilis*" described from "Woods Hole. Surface."

10. *Autolytus alexandri.* A single female stolon from that shown in figure 8.

11. *Autolytus alexandri.* Originally described as "*Stephanosyllis picta*"; 11a, posterior end.

12. *Eusyllis fragilis.* Anterior end in dorsal view, described as "*Eusyllis tenera* Verrill."

(Figs. 8–10 were cited by Verrill, 1882, Amer. Jour. Sci., vol. 24, p. 367, to represent *Autolytus mirabilis*, but this description, based on sedentary and swimming stages, undoubtedly represents at least two species. See above.)


TRANS. CONN. ACAD. VOL. IV.
PLATE XIII.
J. H. Emerton, from Nature.
Photo. Lith. by E. Crisand, New Haven, Conn.

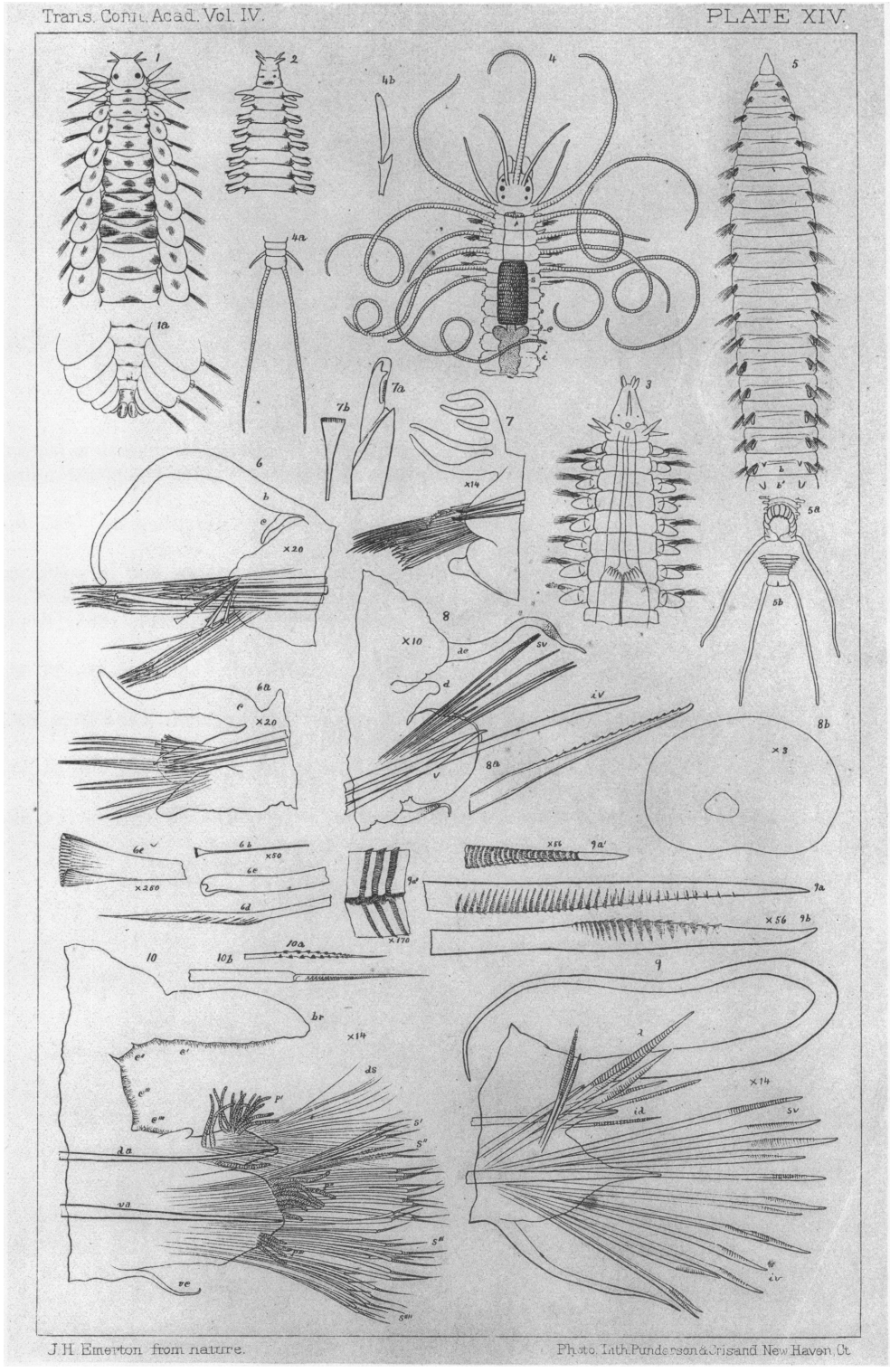

Trans. Conn. Acad. Vol. IV.
PLATE XIV.
J.H. Emerton from nature.
Photo. Lith. Punderson & Crisand New Haven, Ct.

PLATE 14 [46]

1. *Anaitis picta.* Anterior and posterior ends in dorsal view.
2. *Eteone,* sp. Anterior end in dorsal view.
3. Presumably a phyllodocid, but the prostomium is shown not only with a frontal antenna and a median one as in *Eulalia,* but also with a nuchal papilla; the peristomium is shown with only two pairs of tentacular cirri as in *Eteone.*
4. *Eusyllis fragilis.* Anterior end in dorsal view, originally described as "*Eusyllis tenera*"; 4a, posterior end; 4b, a composite seta.
5. *Haploscolopos fragilis.* Anterior end in dorsal view; 5a, posterior end in posterior view; 5b, posterior end in ventral view.
6. *Hyalinoecia tubicola.* The same figures, with legend, are in Verrill, 1885 (Rept. U. S. Fish Comm., pl. 41, fig. 179).
7. *Eunice floridana.* The same figures with legend are in Verrill, 1885 (*tom. cit.*, pl. 41, fig. 180).
8. *Alentiana aurantiaca.* The same figures with legend are in Verrill, 1885 (*tom. cit.*, pl. 40, fig. 173).
9. *Polynoë acanellae.* The same figures with legend are in Verrill, 1885 (*tom. cit.*, pl. 39, fig. 172).
10. *Leanira robusta.* The same figures with legend are in Verrill, 1885 (*tom. cit.*, pl. 40, fig. 175).

PLATE 15 [47]

1. *Ophioglycera gigantea.* The same figures with legend are in Verrill, 1885 (Rept. U. S. Fish Comm., pl. 42, fig. 185).

2. *Goniada gracilis.* Anterior end in dorsal view; 2a, distal end of proboscis showing arrangement of main jaws and quadricuspidate pieces.

3. *Nephtys bucera.* Anterior end in dorsal view showing prostomium and first two setigerous segments.

4. *Nephtys bucera.* Seventieth parapodium in anterior view.

5. *Nephtys bucera.* Eighteenth parapodium in anterior view; 5a, thirty-fifth parapodium in anterior view.

6. *Nephtys paradoxa.* Fiftieth parapodium in anterior view.

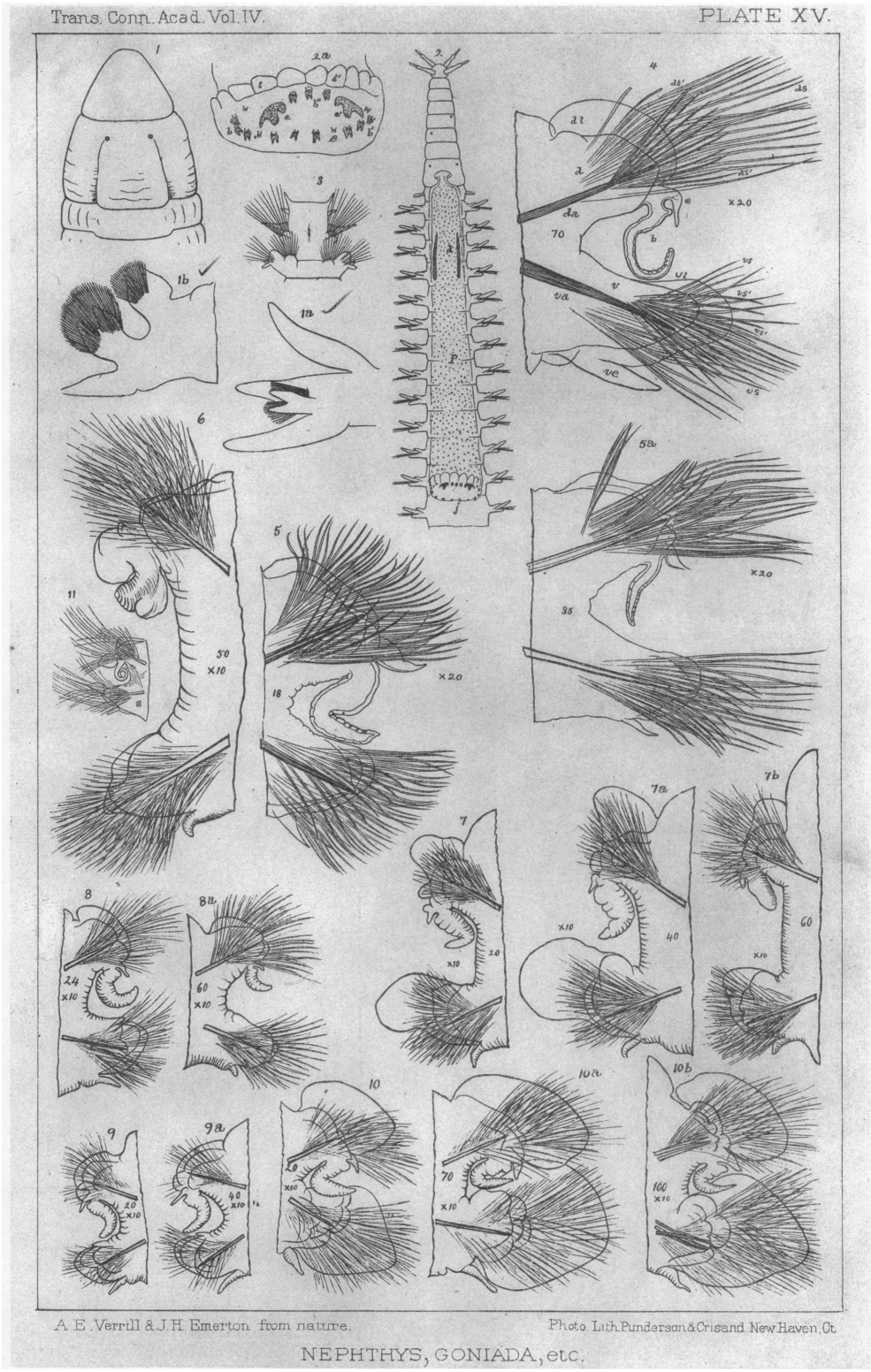
7. *Nephtys longosetosa.* Twentieth parapodium in anterior view; 7a, fortieth parapodium in anterior view; 7b, sixtieth parapodium in anterior view.

8. *Nephtys picta.* Twenty-fourth parapodium in anterior view; 8a, sixtieth parapodium in anterior view.

9. *Nephtys incisa.* Twentieth parapodium in anterior view; 9a, fortieth parapodium in anterior view.

10. *Nephtys ciliata.* Twentieth parapodium in anterior view; 10a, seventieth parapodium in anterior view; 10b, one-hundredth parapodium in anterior view.

11. *Nephtys macroura.* Parapodium; originally described as "*Nephthys circinata.*"


Trans. Conn. Acad. Vol. IV.
PLATE XV.
A. E. Verrill & J. H. Emerton from nature.
Photo. Lith. Pundersen & Crisand. New Haven, Ct.
NEPHTHYS, GONIADA, etc.

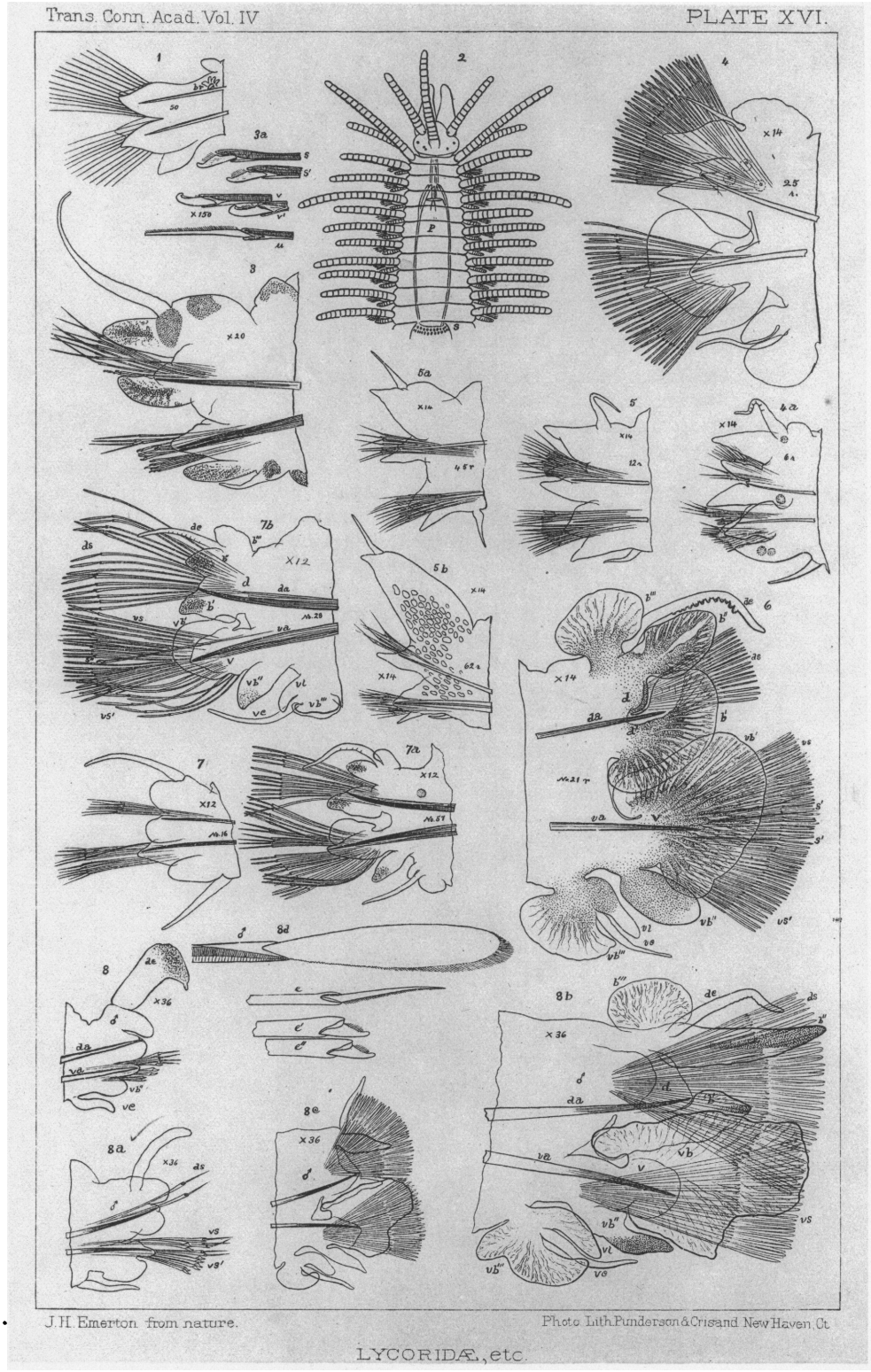
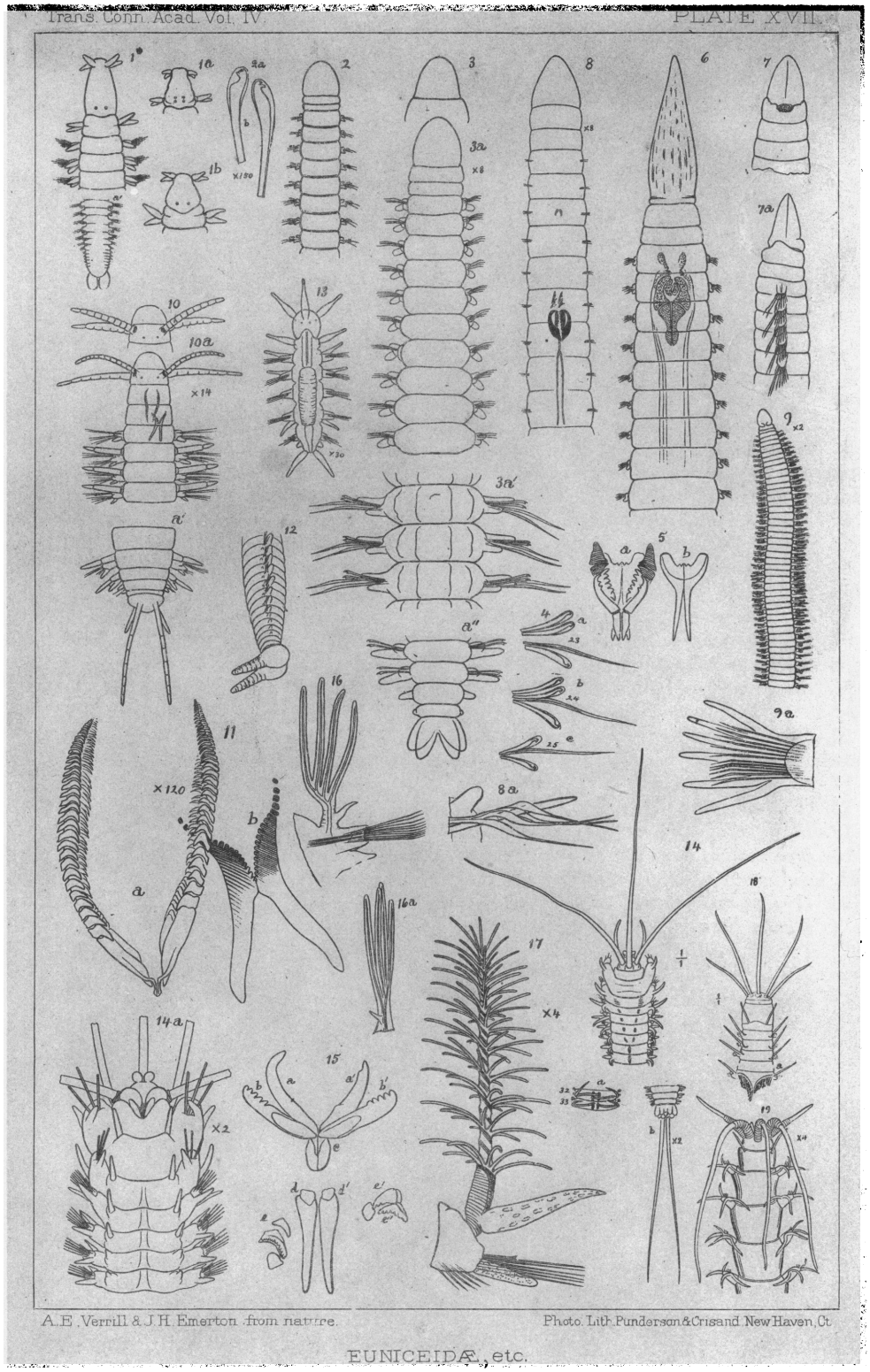

Trans. Conn. Acad. Vol. IV
PLATE XVI.
J.H. Emerton from nature.
Photo Lith. Punderson & Crisand New Haven, Ct.
LYCORIDÆ, etc.

PLATE 16 [48]

1. *Glycera americana.* Fiftieth parapodium in posterior view.
2. *Typosyllis pallida.* Anterior end in dorsal view.
3. *Platynereis dumerilii.* Parapodium; 3a, s and s_1 are neuropodial falcigers, v and v_1 are notopodial falcigers, u is a notopodial spiniger.
4. *Neanthes succinea.* Twenty-fifth parapodium from female epitoke; 4a, sixth parapodium from same.
5. *Neanthes succinea.* Twelfth parapodium from atokous individual; 5a, forty-eighth parapodium from same; 5b, sixty-second parapodium from same.
6. *Neanthes succinea.* Twenty-first parapodium from male epitoke.
7. *Platynereis dumerilii.* Sixteenth parapodium; 7a, fifty-eighth parapodium from female epitokous individual; 7b, twenty-eighth parapodium from same.
8. *Platynereis dumerilii.* Anterior parapodium from male epitoke; 8a, a prenatatory parapodium from same; 8b, a natatory parapodium from same; 8d, swimming seta from natatory parapodium, also a spiniger and two neuropodial falcigers; 8e, a far posterior parapodium from male epitokous individual.

PLATE 17 [49]

1. *Eteone*, sp. 1, 1a, and 1b show anterior ends in dorsal view of greatly prolonged to shorter prostomial lengths; 1a′ shows a posterior end.
2. *Lumbrineris*, sp. Anterior end in dorsal view; 2a, two-hooded hooks.
3. *Lumbrineris tenuis*. Prostomium only; 3a, anterior end in dorsal view, through ten setigerous segments; 3a′, a median portion of the same showing setae and hooks in parapodia; 3a″, posterior end of same.
4. *Lumbrineris tenuis*. Distribution of setae and hooks in segments 23 to 25.
5. *Lumbrineris*, perhaps *tenuis*. a, Maxillae; b, mandibles.
6. *Lumbrineris acuta*. Anterior end in dorsal view, showing maxillae through the body wall.
7. (Undetermined.)
8. *Drilonereis longa*. Anterior end in dorsal view, with mandibles in third setigerous segment and maxillae in sixth to ninth setigerous segments.
9. *Ninoë nigripes*. Anterior end in dorsal view; 9a, a branchial parapodium in anterior view.
10. *Dorvillea rudolphii*. Prostomium in dorsal view; 10a, anterior end in dorsal view, showing position of mandibles and maxillae; 10a′, posterior end in dorsal view.
11. *Dorvillea rudolphii*. Maxillae (a), and mandibles (b).
12. (Undetermined.)
13. Larval stage of a syllid.
14. *Hyalinoecia tubicola*. The same figure, with legend, is in Verrill, 1885 (Rept. U. S. Fish Comm., pl. 41, fig. 178); 14a, anterior end in ventral view.
15. *Hyalinoecia tubicola*. Maxillae and mandibles.
16. *Eunice floridana*. A branchial parapodium; 16a, branchia with small dorsal cirrus.
17. *Diopatra cuprea*. A branchial parapodium.
18. *Eunice vivida*. Anterior end in dorsal view.
19. *Nothria opalina*. Anterior end in dorsal view.


Trans. Conn. Acad. Vol. IV.
PLATE XVII.
A.E. Verrill & J.H. Emerton from nature.
Photo. Lith. Punderson & Crisand New Haven, Ct
EUNICEIDÆ, etc.

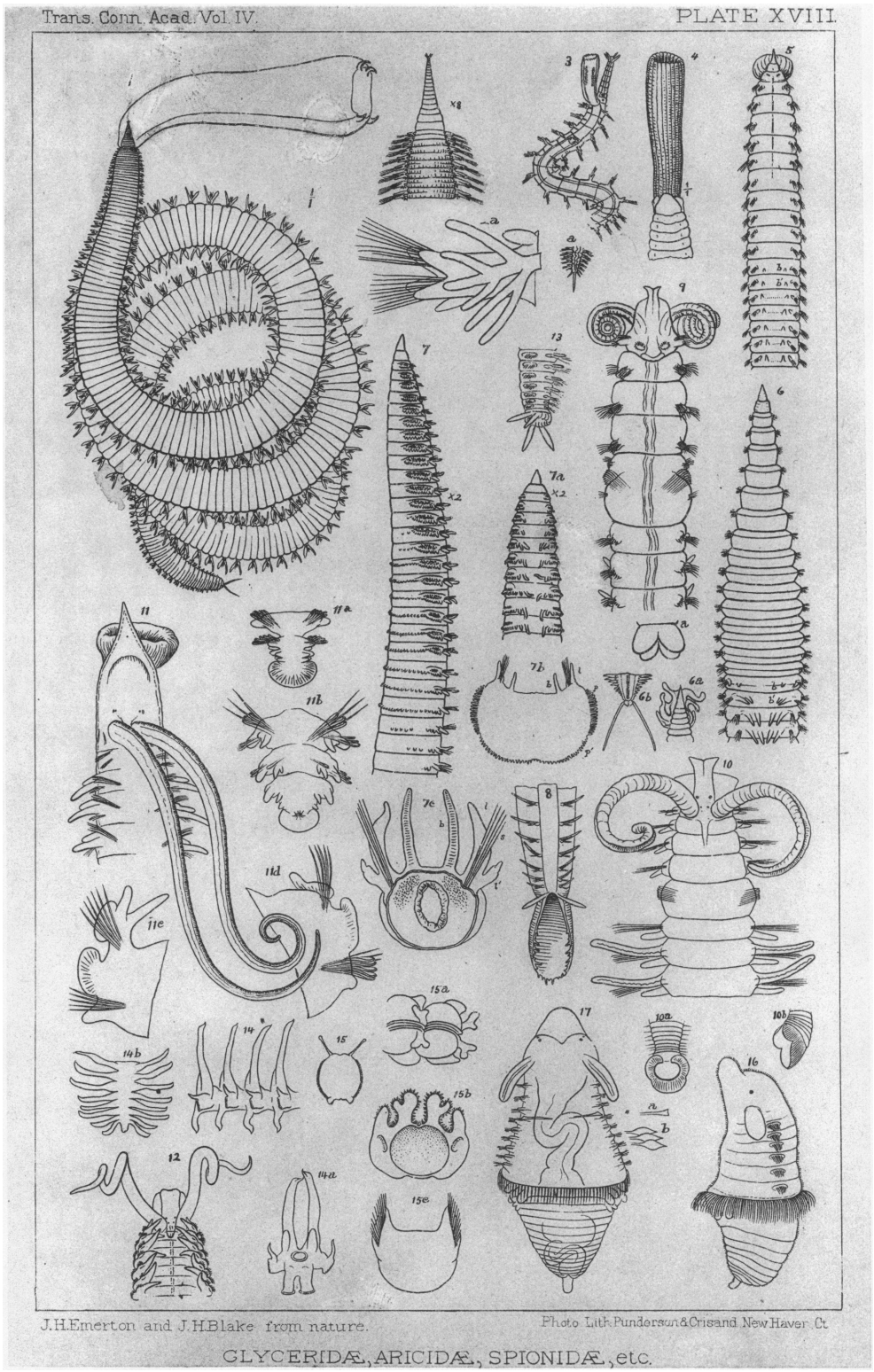

Trans. Conn. Acad. Vol. IV.
PLATE XVIII.
J.H.Emerton and J.H.Blake from nature.
Photo Lith. Punderson & Crisand New Haven Ct.
GLYCERIDÆ, ARICIDÆ, SPIONIDÆ, etc.

PLATE 18 [50]

1. *Glycera dibranchiata.* Entire animal in dorsal view, proboscis everted.

2. *Glycera americana.* Anterior end in dorsal view; a, a branchial parapodium in posterior view with branchia everted.

3. *Goniada gracilis.* Anterior end in ventral view, proboscis everted; a, posterior end.

4. *Ophioglycera gigantea.* Anterior end in dorsal view, proboscis everted.

5. *Scoloplos armiger.* Anterior end in dorsal view, proboscis partly everted.

6. *Haploscoloplos fragilis.* Anterior end in dorsal view; 6a, anterior end in dorsal view with proboscis everted; 6b, posterior end.

7. *Orbinia ornata.* Anterior end seen from left side; 7a, anterior end in dorsal view; 7b, a thoracic segment in cross section; 7c, an abdominal segment in cross section.

8. *Ammotrypane aulogaster.* Posterior end with anal funnel, in ventral view.

9. *Polydora littorea.* Anterior end in ventral view; a, pygidium.

10. *Polydora littorea.* Anterior end in dorsal view, including two branchial segments; 10a, posterior end in dorsal view; 10b, same, in dorsal view.

11. *Nerine agilis.* Anterior end with palpi, in dorsal view, proboscis everted; 11a, pygidium in ventral view; 11b, same, in dorsal view; 11c, an anterior parapodium before the twentieth segment; 11d, a posterior parapodium, the neuropodium provided with hooks.

12. *Spio setosa.* Anterior end in dorsal view.

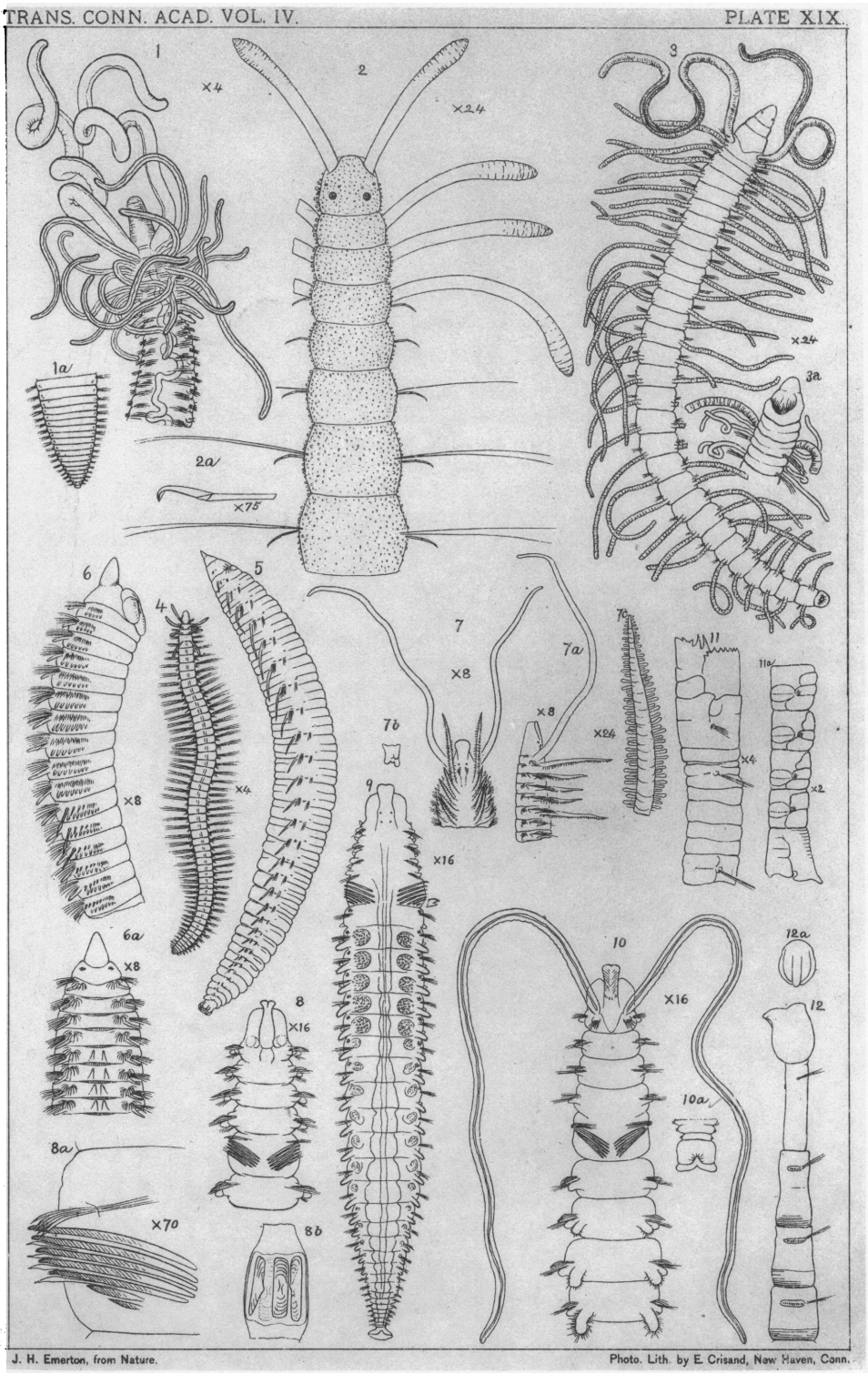
13. *Spio setosa.* Posterior end with terminal cirri.

14 and 15. Parts of a chaetopterid, possibly *Spiochaetopterus oculatus.*

16 and 17. Larval stages of spioniform chaetopods.

PLATE 19 [51]

1. *Dodecaceria concharum.* Anterior end in dorsal view; 1a, posterior end.
2. *Acrocirrus leidyi.* Anterior end in dorsal view; 2a, composite hook.
3. *Caulleriella fragilis* (?). Dorsal view; 3a, anterior end in ventral view.
4. *Dodecaceria fimbriata.* Entire, in dorsal view.
5. *Ophelia limacina.* Entire, in right lateral view.
6. *Scoloplos armiger.* Anterior end in right lateral view; 6a, anterior end in dorsal view.
7. *Prionospio tenuis.* Anterior end in dorsal view; 7a, anterior end in left lateral view; 7b, pygidium; 7c, a branchia with pinnules.
8. *Polydora concharum.* Anterior end in ventral view; 8a, modified fifth segment, showing setal structures in one side.
9. *Polydora,* sp. Entire, except for palpi, in dorsal view.
10. *Polydora concharum.* Anterior end in dorsal view; 10a, posterior end.
11. *Asychis biceps.* Anterior end including first three setigerous segments; 11a, posterior end in left lateral view.
12. Perhaps *Rhodine attenuata.* Anterior end including first four segments; 12a, cephalic plaque seen from the front.


TRANS. CONN. ACAD. VOL. IV.
PLATE XIX.
1
×4
2
×2.4
3
×24
1a
2a
×75
3a
6
5
4
7
×8
7a
×8
×24
7b
9
×16
×8
×4
11
11a
×4
×2
6a
×8
8
×16
8a
×70
8b
10
×16
10a
12a
12
J. H. Emerton, from Nature.
Photo. Lith. by E. Crisand, New Haven, Conn.

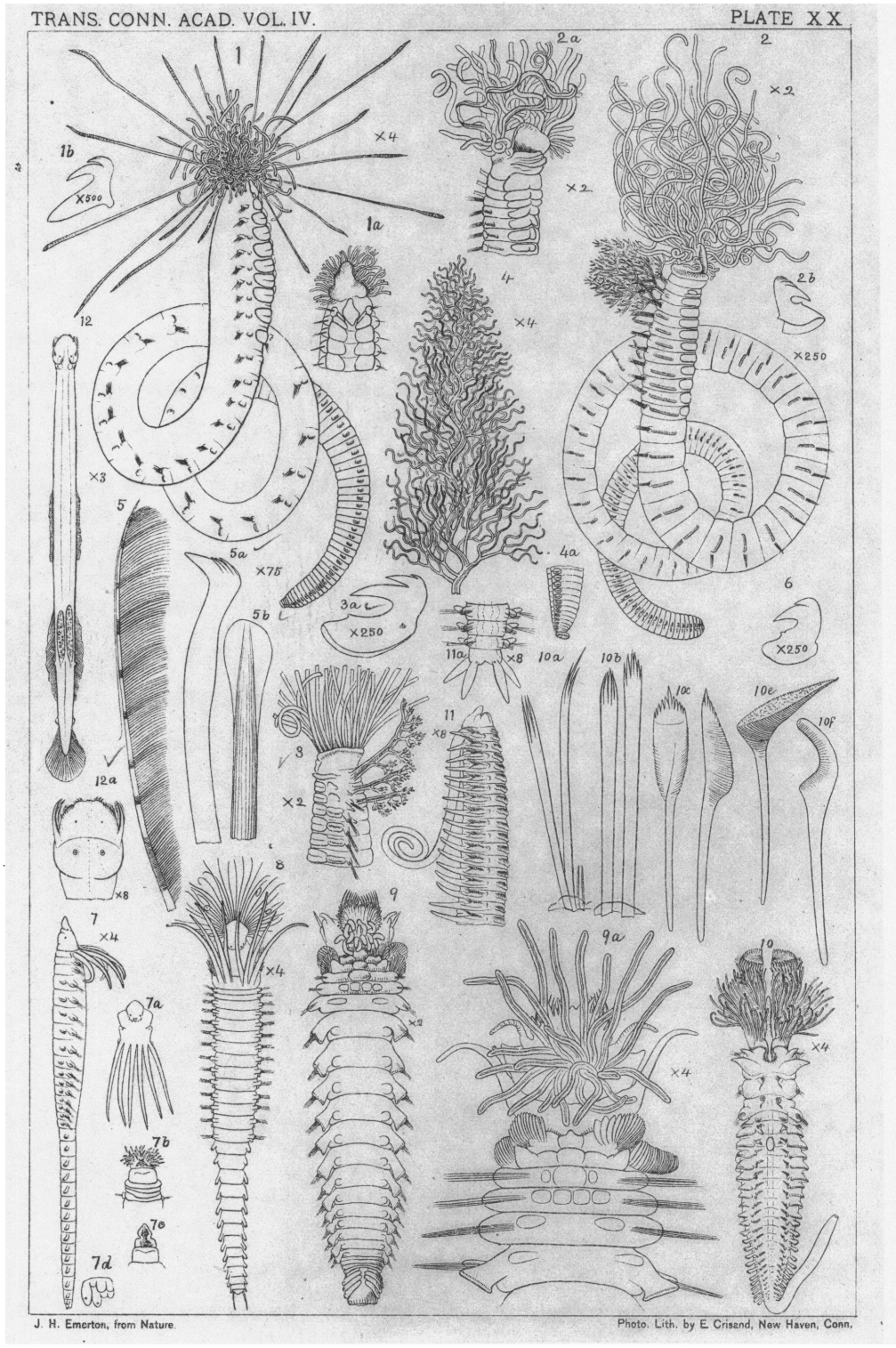

TRANS. CONN. ACAD. VOL. IV.
PLATE XX
1
1a
1b
2
2a
2b
3
3a
4
4a
5
5a
5b
6
7
7a
7b
7c
7d
8
9
9a
10
10a
10b
10c
10e
10f
11
11a
12
12a
×2
×3
×4
×5
×7
×8
×250
×500
J. H. Emerton, from Nature.
Photo. Lith. by E. Crisand, New Haven, Conn.

PLATE 20 [52]

1. Perhaps *Polycirrus phosphoreus*. Entire animal in right lateral view; 1a, anterior end in ventral view; 1b, uncinus.

2. *Amphitrite ornata*. Entire animal in right lateral view; 2a, anterior end in ventrolateral view; 2b, uncinus.

3. *Lepraea abyssicola*. Anterior end in left lateral view; 3a, uncinus.

4. *Amphitrite ornata*. Branchia.

5. *Chone infundibuliformis*. Tentacular radiole with filaments; 5a, thoracic uncinus; 5b, thoracic spatulate seta.

6. Terebellid uncinus, perhaps of *Lepraea abyssicola*.

7. *Ampharete grubei*. Entire animal in left lateral view; 7a, anterior end in dorsal view; 7b, same, in ventral view with oral filaments everted; 7c, anterior end in ventral view.

8. *Ampharete grubei*. Entire animal in dorsal view, with oral tentacles everted.

9. *Cistenides gouldii*. Entire animal in ventral view; 9a, anterior end in ventral view, with oral tentacles expanded.

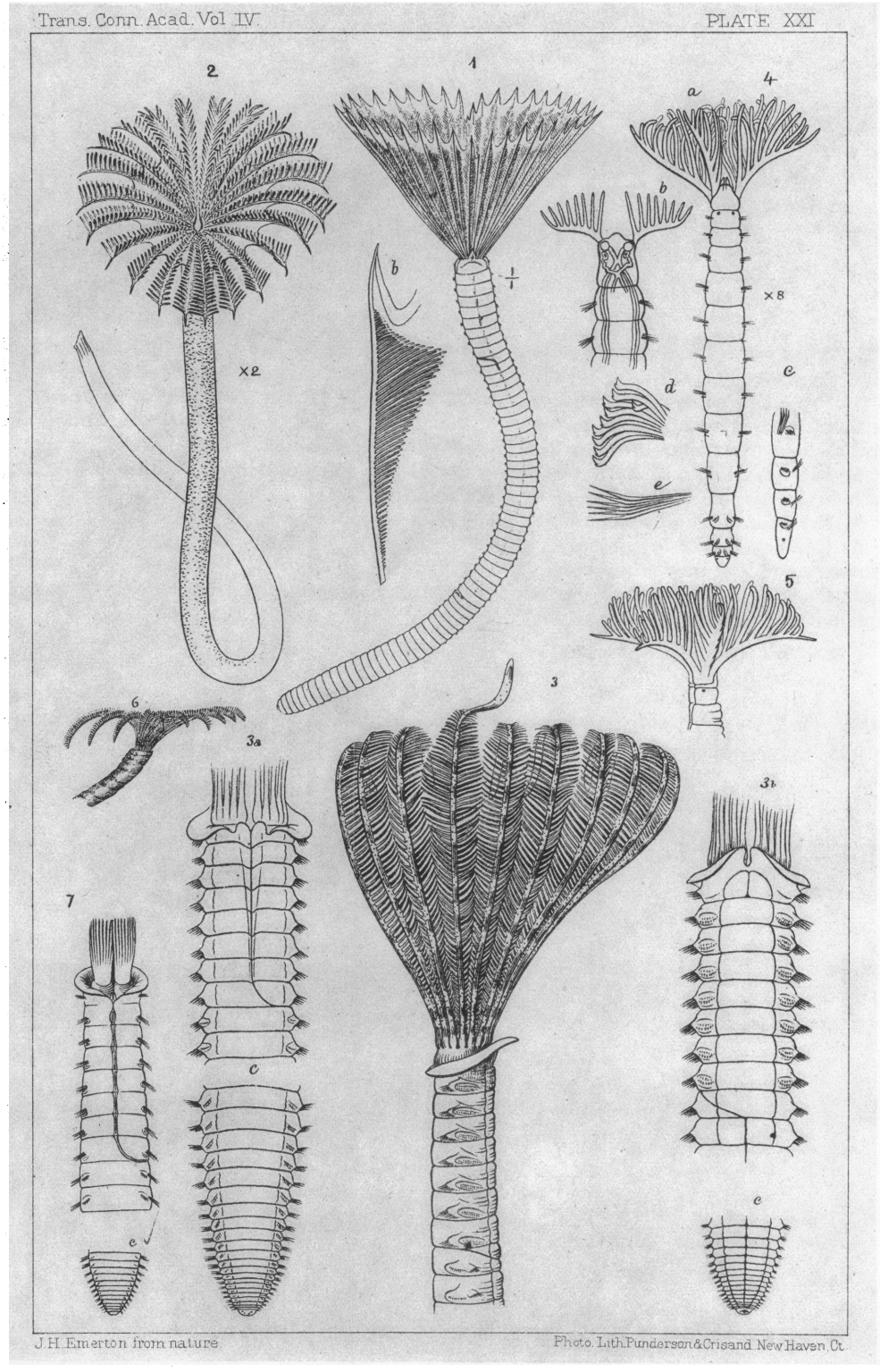
10. *Sabellaria vulgaris*. Entire animal in ventral view; 10a and 10b, thoracic setae; 10c, outer opercular paleae; 10e, inner opercular palea; 10f, middle opercular palea.

11. *Spio setosa*. Anterior end in right lateral view.

12. *Sagitta gracilis* (a chaetognath).

PLATE 21 [53]

1. *Myxicola infundibulum.* Entire animal in ventral view.
2. *Euchone elegans.* Entire animal, in tube, with tentacular crown expanded.
3. *Pseudopotamilla reniformis.* Anterior end in right lateral view; 3a, anterior end without tentacular crown, in dorsal view, and posterior end in same view; 3b, anterior end without tentacular crown, in ventral view, and posterior end in same view.
4. *Fabricia sabella.* a, Entire animal in dorsal view; b, anterior end; c, posterior end in lateral view; d, thoracic uncini; e, thoracic setae.
5. *Fabricia sabella.* Anterior end in left lateral view.
6. *Pseudopotamilla reniformis,* originally described as *Potamilla oculifera* Verrill. Anterior end extended from distal end of tube.
7. *Chone infundibuliformis.* Anterior end, without tentacular crown, in dorsal view, and posterior end.


Trans. Conn. Acad. Vol. IV.
PLATE XXI
1
2
3
3a
3b
3c
4
5
6
7
×2
×8
J.H. Emerton from nature.
Photo. Lith. Punderson & Crisand. New Haven. Ct.

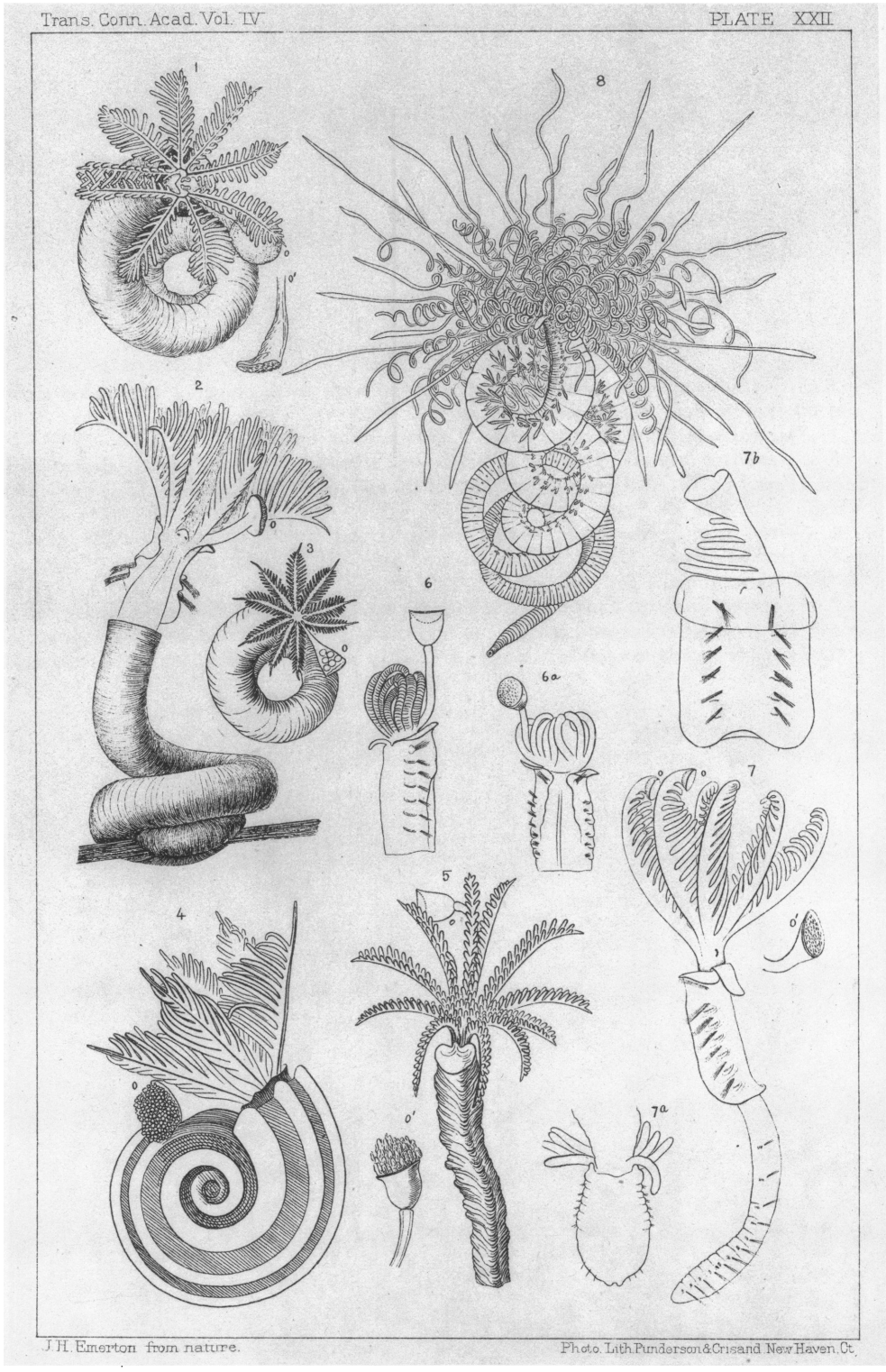

Trans. Conn. Acad. Vol. IV
PLATE XXII
1
2
3
4
5
6
6a
7
7a
7b
8
J.H. Emerton from nature.
Photo. Lith. Punderson & Crisand New Haven, Ct.

PLATE 22 [54]

1. *Spirorbis borealis*, probably. Entire animal with tube, showing tentacular crown and operculum extending from aperture.

2. *Spirorbis spirillum*, lucidus stage. Entire animal, extended.

3. *Spirorbis ? borealis*. This is the "*Spirorbis stimpsonii* Verrill," newly described in 1880 (Proc. U. S. Natl. Mus., pp. 181–182), and earlier recorded as *S. nautiloides?* Verrill.

4. *Spirorbis*, sp. Entire animal with tentacular crown and operculum extended.

5. *Vermilia serrula*. Distal end of tube and extended anterior end.

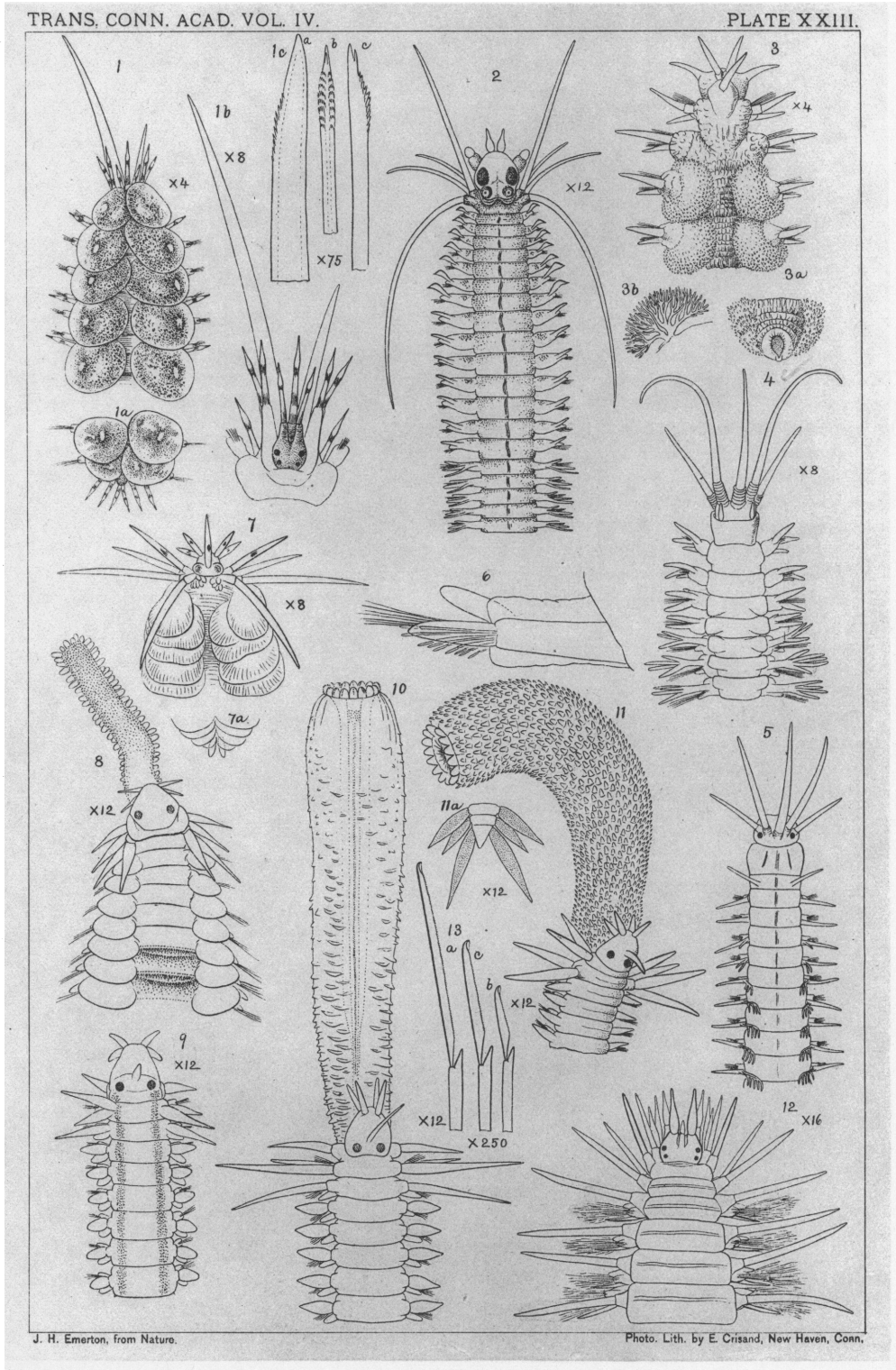
6. (Undetermined.)

7. *Filograna implexa*. Entire animal in right lateral view; 7a, bud at posterior end of body; 7b, thoracic collar and membrane and distal end of tentacle, in dorsal view.

8. *Enoplobranchus sanguineus*. Entire animal in left lateral view, tentacles expanded.

PLATE 23 [55]

1. *Lepidonotus*, perhaps *angustus*. Anterior end in dorsal view, and 1a, posterior end. The posterior elytra lack the "deep emargination on the inner margin" as originally described; 1b, prostomium and anterior cirri and palpi, in dorsal view, elytra removed; 1c, superior and a pair of inferior neurosetae.
2. *Platynereis dumerilii*. Anterior end in dorsal view.
3. *Amphinome lepadis*. Anterior end in dorsal view; 3a, posterior end in dorsal view; 3b, a parapodial branchia.
4. *Nothria conchylega*. Anterior end in dorsal view.
5. *Eunice benedicti*. Anterior end in dorsal view.
6. *Dorvillea rudolphii*. A parapodium seen from the dorsal edge.
7. *Notophyllum americanum*. Anterior end in dorsal view; 7a, posterior end in dorsal view.
8. *Anaitis formosa*. Anterior end in dorsal view, proboscis everted.
9. *Hypoeulalia bilineata*. Anterior end in dorsal view.
10. *?Eumida sanguinea*. Anterior end in dorsal view, proboscis everted.
11. *Eulalia viridis*. Anterior end in dorsolateral view, with proboscis everted; 11a, posterior end.
12. *Castalia cincinnata*. Anterior end in dorsal view.
13. Composite seta from *Castalia cincinnata*.


TRANS. CONN. ACAD. VOL. IV.
PLATE XXIII.
1
1a
1b
×8
1c
a
b
c
×75
×4
2
×12
3
×4
3a
3b
4
×8
5
6
7
×8
7a
8
×12
9
×12
10
11
11a
×12
12
×16
13
a
c
b
×12
×12
×250
J. H. Emerton, from Nature.
Photo. Lith. by E. Crisand, New Haven, Conn.

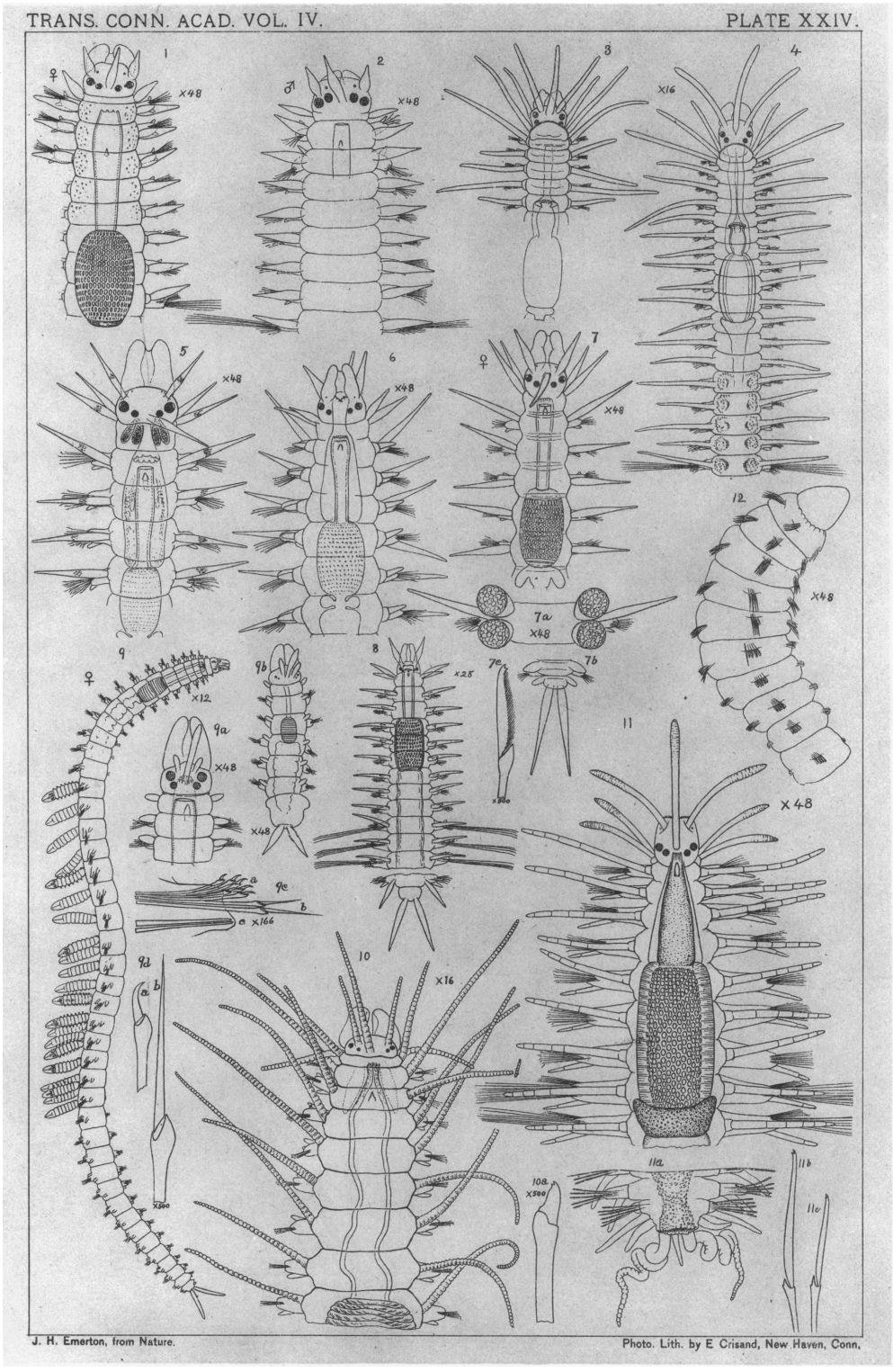
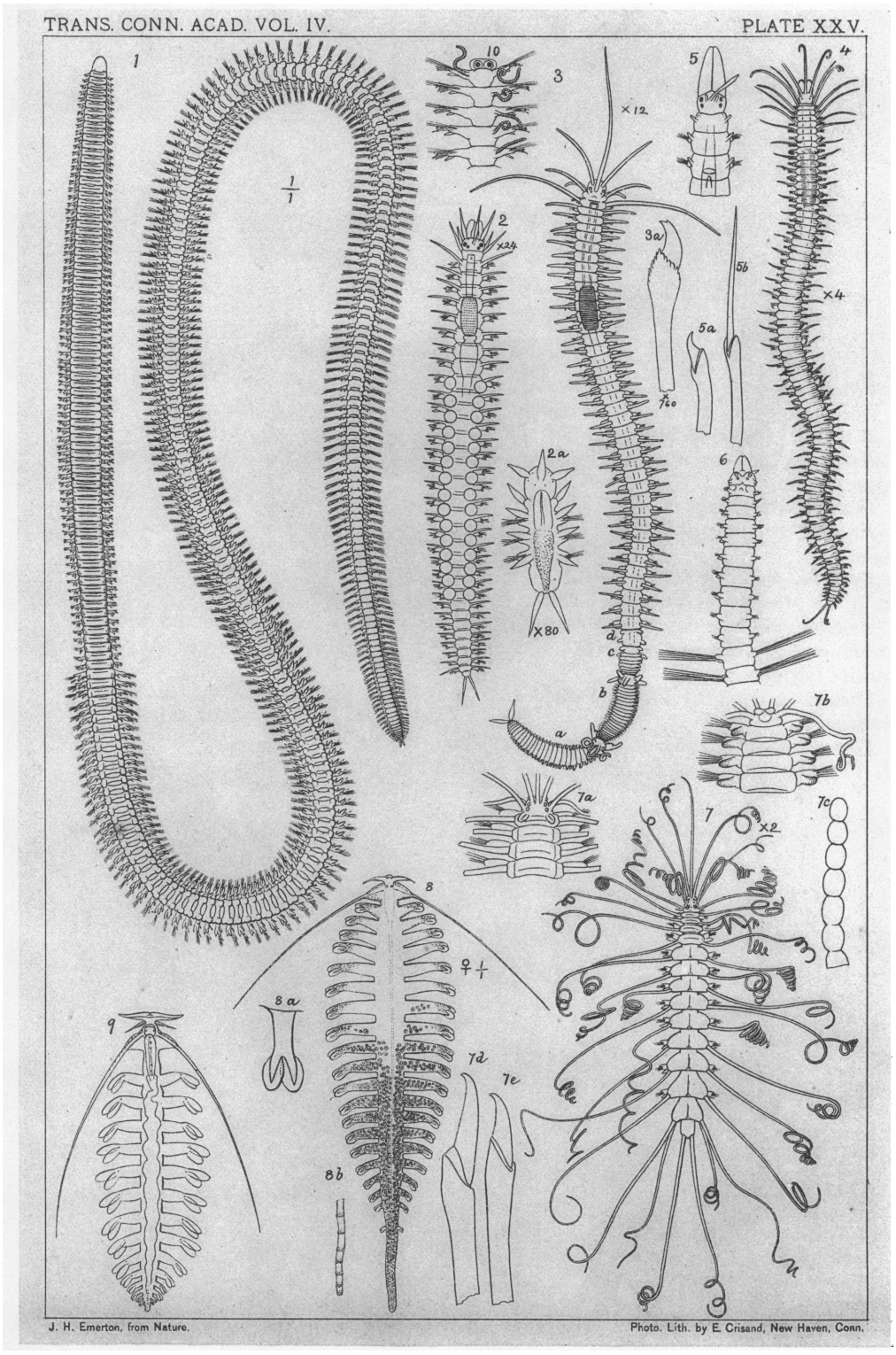

TRANS. CONN. ACAD. VOL. IV.
PLATE XXIV.
J. H. Emerton, from Nature.
Photo. Lith. by E. Crisand, New Haven, Conn.

PLATE 24 [56]

1. *Brania*, sp. Female, anterior end in dorsal view.
2. *Brania*, sp. Male, anterior end in dorsal view.
3. *Odontosyllis lucifera*. Anterior end and pharynx, in dorsal view.
4. *Odontosyllis lucifera*. Anterior end in dorsal view, showing presence of natatory setae from eighteenth setigerous segment.
5. Probably *Brania clavata*. Anterior region, showing palpi extended and pharyngeal parts.
6. *Brania clavata*. Anterior end in ventral view.
7. *Brania clavata*. Anterior, median, and posterior portions of body, in dorsal view, the median section showing a pair of large eggs in each segment.
8. *Brania clavata*. Showing natatory setae from ninth setigerous segment.
9. *Exogone dispar*. Entire animal, female with attached embryos between fourteenth and thirty-fourth segments; 9a, anterior end showing prostomium and attached parts in dorsal view; 9b, embryo from same; 9c, parapodium; 9d, falcigerous and spinigerous composite setae.
10. *Syllis spongiphila*. Anterior end in dorsal view; 10a, composite bidentate seta from same.
11. *Syllides setosa*. Anterior end in dorsal view, with anterior end of alimentary tract; 11a, posterior end; 11b and 11c, composite hooks.
12. *?Notomastus filiformis* Verrill. (This may represent *Heteromastus filiformis* Claparède.) Anterior end in dorsolateral view.

PLATE 25 [57]

1. *Ophioglycera gigantea.* Entire animal in dorsal view.
2. *Brania clavata.* Entire animal, female, in dorsal view, showing distribution of large eggs in median segments; 2a, larval stage.
3. *Autolytus*, perhaps *varians.* Entire animal with stolonization, in dorsal view; 3a, composite seta.
4. *Eusyllis phosphorea.* Entire animal in dorsal view.
5. *Exogone dispar.* Anterior end in dorsal view; 5a, composite falciger; 5b, composite spiniger.
6. *Exogone*, sp. This is the individual described in Verrill, 1880 (Proc. U. S. Natl. Mus., p. 171, last paragraph), as "*Pedophylax longiceps.*"
7. *Amblyosyllis cincinnata.* Entire animal in dorsal view; 7a, anterior end showing prostomium and attached parts, in dorsal view; 7b, same, in ventral view; 7d and e, composite falcigers.
8. *Tomopteris smithii.* Entire animal in dorsal view; 8a, parapodium; 8b, caudal appendage.
9. *Tomopteris*, sp. Entire animal in dorsal view.
10. *Trypanosyllis agilis.* Anterior end of a stolon, in dorsal view.


TRANS. CONN. ACAD. VOL. IV.
PLATE XXV.
1
1/1
10
2
×24
2a
×80
3
×12
3a
1/20
4
×4
5
5a
5b
6
7
×2
7a
7b
7c
7d
7e
8
8a
8b
9
J. H. Emerton, from Nature.
Photo. Lith. by E. Crisand, New Haven, Conn.

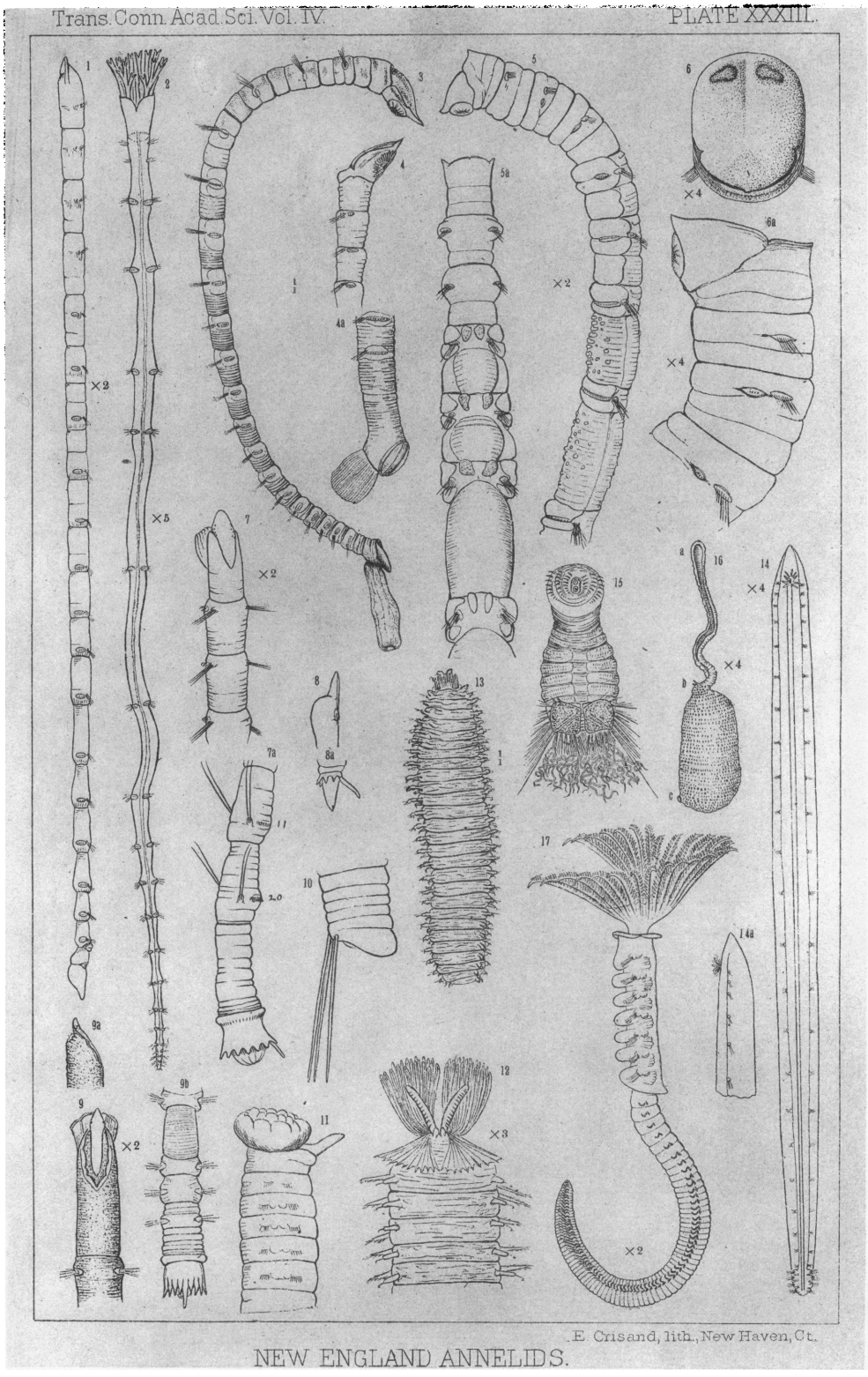
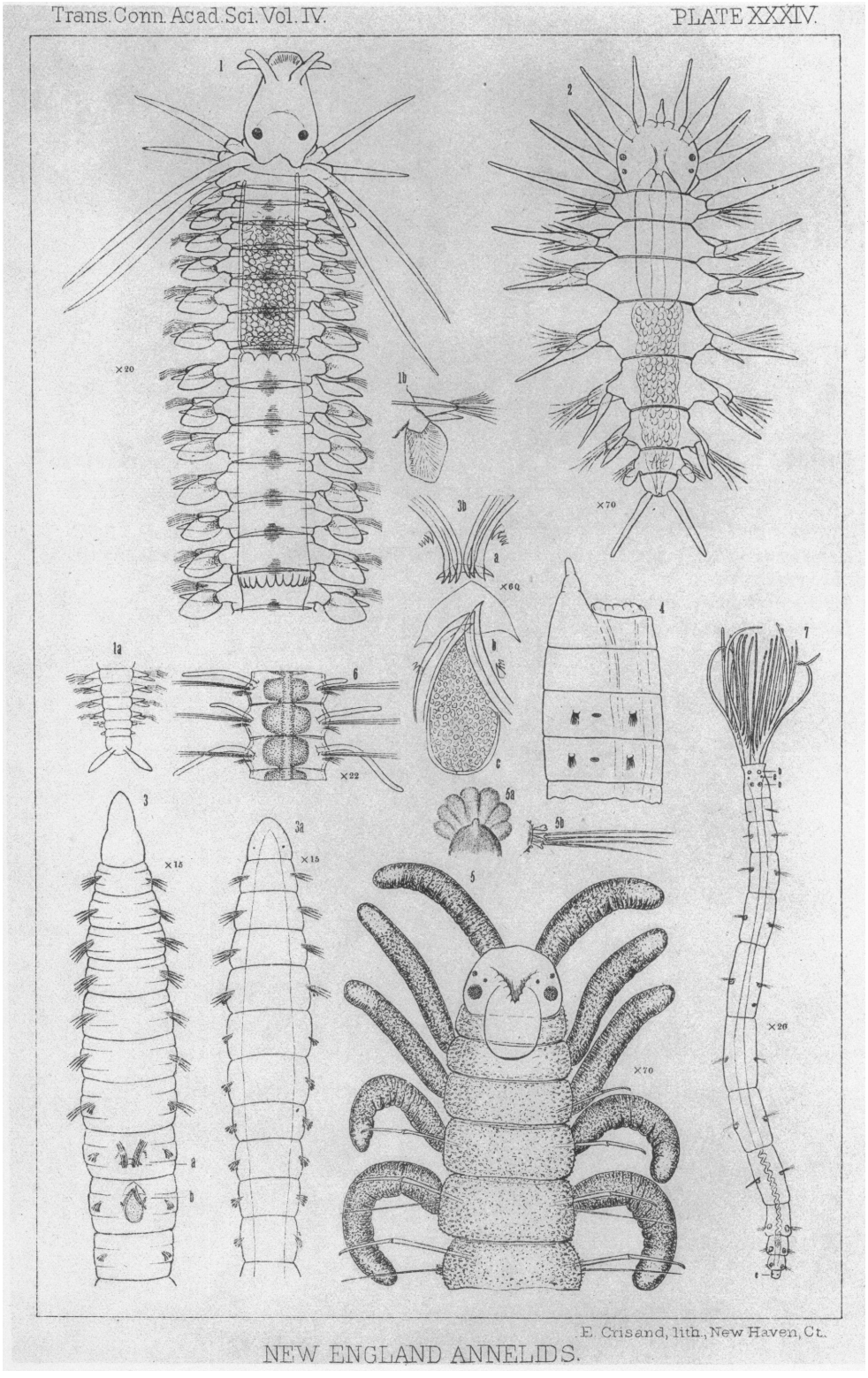

Trans. Conn. Acad. Sci. Vol. IV.
PLATE XXXIII.
E. Crisand, lith., New Haven, Ct.
NEW ENGLAND ANNELIDS.

PLATE 33 [58]

1. *?Nicomache dispar.* Entire animal in left lateral view.
2. *Owenia fusiformis.* Entire animal in ventral view.
3. *Maldane sarsi.* Entire animal in right lateral view, proctodaeum everted.
4. *Maldane sarsi.* Anterior end in right lateral view; 4a, posterior end in right lateral view.
5. *Maldane elongata.* Anterior end through eight setigerous segments, in left lateral view; 5a, anterior end in dorsal view.
6. *Maldane elongata.* Cephalic plaque seen from the front; 6a, anterior end in left lateral view.
7. *Praxillella ? elongata.* Anterior end in dorsolateral view, the proboscis slightly everted; 7a, posterior end with anal plaque, seen partly from the right side.
8. *Praxillella praetermissa.* Anterior end seen from the right side; 8a, posterior end seen from the right side.
9. *Axiothella catenata.* Anterior end in dorsal view, proboscis partly everted; 9a, anterior end in left lateral view; 9b, posterior end in ventral view.
10. (Undetermined.)
11. A capitellid, anterior end in left lateral view, proboscis everted.
12. *?Brada setosa.* Anterior end in ventral view.
13. *Brada setosa.* Entire animal in dorsal view.
14. *Ophelia limacina.* Entire animal in ventral view; 14a, anterior end in left lateral view, proboscis partly everted.
15. *Sternaspis fossor.* Entire animal in ventral view.
16. *Thalassema* (Echiuroidea).
17. *Protula media.* Entire animal in right lateral view.

PLATE 34 [59]

1. *Anaitides catenula.* Anterior end in dorsal view; 1a, posterior end with anal structures; 1b, parapodium, shown reversed.
2. *Podarke obscura.* Juvenile.
3. *Capitella capitata.* Anterior end of male, through thoracic region, in dorsal view; 3a, anterior end of female, in dorsal view; 3b, copulatory apparatus of male, from segments 8 and 9.
4. Anterior end of a capitellid, perhaps the same as that shown in figure 3.
5. *Acrocirrus leidyi.* Anterior end in ventral view; 5a, anterior end, proboscis everted; 5b, setal structures.
6. Median segments of a syllid.
7. *Fabricia sabella.* Entire animal.


Trans. Conn. Acad. Sci. Vol. IV.
PLATE XXXIV.
1
×20
1b
2
×70
3b
a
×60
1a
6
×22
4
7
b
c
5a
5b
3
×15
2
1
3a
×15
5
×70
×26
E. Crisand, lith., New Haven, Ct.
NEW ENGLAND ANNELIDS.

35

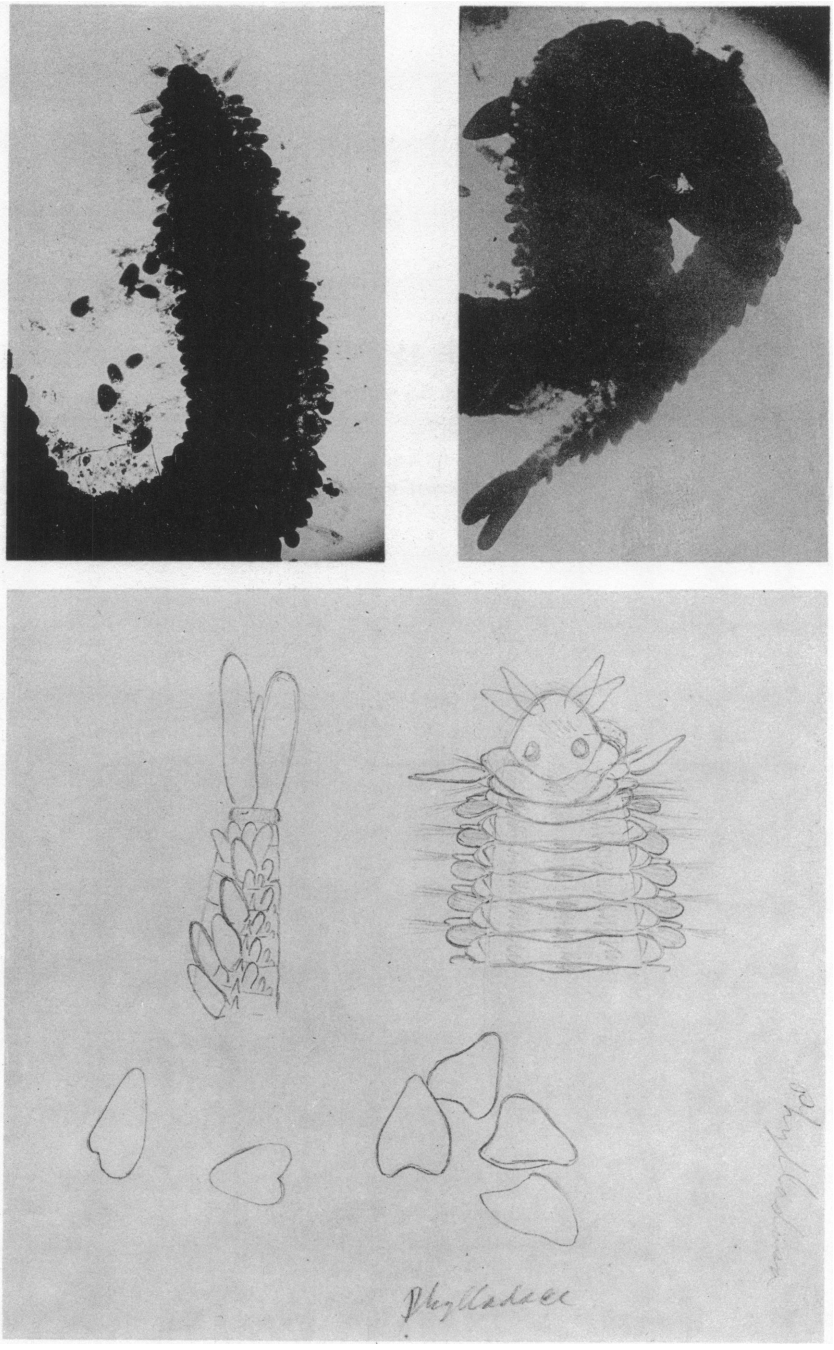


PLATE 35 [60]

Genetyllis bermudae

1. Photograph of anterior end, enlarged.
2. Photograph of posterior end, showing anal structures, enlarged.
3. Pencil sketches of posterior end, anterior end, and detached dorsal cirri, in collections and notes left by Verrill.

VERRILL	REVISED NAME
FAMILY APHRODITIDAE	
Aphrodita aculeata Linnaeus, pl. 3	
Laetmatonice armata, pl. 6, fig. 6	*Laetmonice armata* (Verrill)
Laetmatonice filicornis	*Laetmonice filicornis* Kinberg
FAMILY POLYNOIDAE	
**Antinoë angusta* Verrill	
Antinoë sarsi Kinberg	
**Enipo gracilis* Verrill	*Polynoë gracilis* (Verrill)
Eucrante villosa Malmgren	
Eunoa nodosa	*Eunoë nodosa* (Sars)
Eunoa oerstedi	*Eunoë oerstedi* Malmgren
**Eunoa spinulosa*, pl. 7, fig. 6	*Eunoë spinulosa* Verrill
Eupolynoe anticostiensis	*Eucranta anticostiensis* (McIntosh)
Eupolynoe occidentalis	*Eucranta villosa* Malmgren
Evarne impar	*Evarnella impar* (Oersted)
Harmothoë imbricata (Linnaeus), pl. 6, fig. 1	
Laenilla ? mollis	*Antinoë mollis* (Sars)
Lagisca propinqua	*Lagisca floccosa propinqua* Malmgren
Lagisca rarispina (Sars)	
Lagisca rarispina occidentalis	*Lagisca rarispina* (Sars)
Lepidametria commensalis Webster	
Lepidonotus angustus	*Lepidonotus squamatus* (Linnaeus)
Lepidonotus squamatus (Linnaeus), pl. 4, fig. 1, pl. 6, figs. 2, 4	
**Lepidonotus sublevis* Verrill, pl. 4, fig. 2, pl. 6, fig. 3	
Malmgrenia whiteavesi McIntosh	
Nemidia ? canadensis McIntosh	
Nemidia ? lawrencii McIntosh	
Nychia amondseni	*Gattyana amondseni* (Malmgren)
Nychia cirrosa	*Gattyana cirrosa* (Pallas)
**Polynoë acanellae* Verrill, pl. 6, fig. 5, pl. 14 [46], fig. 9	
**Polynoë aurantiaca*, pl. 14 [46], fig. 8	*Alentiana aurantiaca* (Verrill)
Polynoë gaspeensis McIntosh	
FAMILY SIGALIONIDAE	
+*Leanira robusta* Verrill, pl. 14 [46], fig. 10	
Leanira tetragona (Oersted)	
Leanira ? yhleni Malmgren	
Pholoë minuta (Fabricius), pl. 7, fig. 4	
**Sigalion arenicola* Verrill, pl. 7, fig. 5	
**Sthenelais emertoni*, pl. 7, figs. 1, 2	*Sthenelais gracilis* Verrill
**Sthenelais gracilis* Verrill	
**Sthenelais picta*, pl. 6, fig. 7, pl. 7, fig. 3	*Sthenelais leidyi* Quatrefages
FAMILY AMPHINOMIDAE	
[?]**Amphinome lepadis* Verrill, pl. 23 [55], fig. 3	
FAMILY EUPHROSINIDAE	
Euphrosyne borealis	*Euphrosine borealis* Oersted
FAMILY SPINTHERIDAE	
**Spinther citrinus*	*Spinther oniscoides* Johnston
FAMILY PHYLLODOCIDAE	
[?]**Anaitis formosa* Verrill, pl. 23 [55], fig. 8	

VERRILL	REVISED NAME
[?]*_Anaitis picta_ Verrill, pl. 14 [46], fig. 1	
Anaitis speciosa	_Paranaitis speciosa_ (Webster)
Eteone alba Webster	
Eteone depressa	_Eteone flava_ (Fabricius)
[?]*_Eteone limicola_ Verrill	
Eteone pusilla Malmgren	
*_Eteone robusta_ Verrill	
[?]*_Eteone setosa_ Verrill	
[?]*_Eulalia annulata_ Verrill	
*_Eulalia gracilis_, pl. 23 [55], fig. 9	_Hypoeulalia bilineata_ (Johnston)
[?]*_Eulalia granulosa_	_Eumida_, sp.
*_Eulalia pistacia_, pl. 5, fig. 6	_Eumida sanguinea_ (Oersted)
*_Eumida americana_, pl. 23 [55], fig. 10	_?Eumida sanguinea_ (Oersted)
+_Eumida maculosa_	_Eumida sanguinea_ (Oersted)
*_Eumida papillosa_, pl. 23 [55], fig. 11	_Eulalia viridis_ (Linnaeus)
+_Eumida vivida_	_Eulalia viridis_ (Linnaeus)
*_Notophyllum americanum_ Verrill, pl. 23 [55], fig. 7	
+_Phyllodoce catenula_, pl. 5, fig. 4, pl. 34 [59], fig. 1	_Anaitides catenula_ (Verrill)
*_Phyllodoce gracilis_	_Anaitides gracilis_ (Verrill)
Phyllodoce groenlandica, pl. 5, fig. 5	_Anaitides groenlandica_ (Oersted)
FAMILY TOMOPTERIDAE	
Tomopteris smithii Verrill, pl. 25 [57], fig. 8	
FAMILY HESIONIDAE	
[?]*_Castalia cincinnata_ Verrill, pl. 23 [55], fig. 12	
Podarke luteola Webster	
Podarke obscura Verrill, pl. 34 [59], fig. 2	
FAMILY SYLLIDAE	
Autolytus alexandri Malmgren, pl. 12, fig. 8, ?pl. 13 [45], fig. 2, pl. 13 [45], fig. 11	
Autolytus cornutus Agassiz, pl. 12, figs. 4, 6, ?pl. 13 [45], figs. 4, 6	
*_Autolytus emertoni_ Verrill, pl. 12, fig. 9	
Autolytus hesperidum	_Autolytus varians_ Verrill
Autolytus longisetosus (Oersted), pl. 12, fig. 10, pl. 13 [45], fig. 1	
[?]*_Autolytus longigula_ Verrill, pl. 12, fig. 3	
*_Autolytus mirabilis_, pl. 13 [45], fig. 9	_Autolytus varians_ Verrill
*_Autolytus varians_ Verrill, pl. 12, fig. 7, pl. 13 [45], fig. 3, pl. 25 [57], fig. 3	
Eusyllis monilicornis	_Eusyllis blomstrandi_ Malmgren
[?]*_Eusyllis phosphorea_ Verrill, pl. 25 [57], fig. 4	
*_Eusyllis tenera_, pl. 13 [45], fig. 12, pl. 14 [46], fig. 4	_Eusyllis fragilis_ Webster
Grubea tenuicirrata	_Brania clavata_ (Claparède)
*_Grubea websteri_, pl. 24 [56], figs. 5–8, pl. 25 [57], fig. 2	_Brania clavata_ (Claparède)
Odontosyllis ? fulgurans (Audouin and Edwards)	
*_Odontosyllis lucifera_ (Verrill), pl. 12, fig. 1, pl. 24 [56], figs. 3, 4	
Paedophylax dispar	_Exogone dispar_ (Webster)
*_Paedophylax longiceps_, pl. 12, fig. 2, pl. 24 [56], fig. 9, pl. 25 [57], fig. 5	_?Exogone dispar_ (Webster)
*_Proceraea gracilis_	_Autolytus gracilis_ (Verrill)
*_Proceraea ornata_, pl. 12, fig. 5?, pl. 13 [45], fig. 5	_Autolytus ornatus_ (Verrill)
*_Pterosyllis cincinnata_, pl. 25 [57], fig. 7	_Amblyosyllis cincinnata_ (Verrill)

VERRILL	REVISED NAME
Sphaerosyllis fortuita Webster	
**Stephanosyllis ornatus*	*Autolytus alexandri* Malmgren
**Syllides setosa* Verrill, pl. 24 [56], fig. 11	
Syllis fragilis	*Eusyllis fragilis* (Webster)
Syllis gracilis Grube	
**Syllis pallida*, pl. 16 [48], fig. 2	*Typosyllis pallida* (Verrill)
Syllis spongiphila Verrill, pl. 24 [56], fig. 10	
**Tetraglene agilis*, pl. 25 [57], fig. 10	*Trypanosyllis agilis* (Verrill)
FAMILY **NEREIDAE**	
**Ceratocephale websteri*	*Chaunorhynchus loveni* (Malmgren)
[?]*Nereis abyssicola* Stimpson	
Nereis fucata Savigny	
[?]*Nereis iris* Stimpson	
Nereis limbata, pl. 5, fig. 3, pl. 16 [48], figs. 4–6	*Neanthes succinea* Frey and Leuckart
Nereis megalops, pl. 5, figs. 1, 2, pl. 16 [48], figs. 3, 7, 8, pl. 23 [55], fig. 2	*Platynereis dumerilii* Audouin and Edwards
Nereis pelagica Linnaeus	
Nereis virens	*Neanthes virens* (Sars)
Nereis zonata Malmgren	
FAMILY **NEPHTYIDAE**	
Nephthys bucera, pl. 15 [47], figs. 3–5	*Nephtys bucera* Ehlers
Nephthys caeca	*Nephtys caeca* (Fabricius)
Nephthys ciliata, pl. 15 [47], fig. 10	*Nephtys ciliata* (Müller)
+*Nephthys circinata*, pl. 15 [47], fig. 11	*Nephtys macroura* (Schmarda)
Nephthys discors	*Nephtys discors* Ehlers
Nephthys incisa, pl. 15 [47], fig. 9	*Nephtys incisa* Malmgren
Nephthys longisetosa, pl. 15 [47], fig. 7	*Nephtys longosetosa* Oersted
Nephthys ? paradoxa, pl. 15 [47], fig. 6	*Nephtys paradoxa* Malmgren
Nephthys picta, pl. 15 [47], fig. 8	*Nephtys picta* Ehlers
FAMILY **SPHAERODORIDAE**	
Ephesia gracilis	*Hypephesia gracilis* (Rathke)
FAMILY **GLYCERIDAE**	
Euglycera dibranchiata, pl. 18 [50], fig. 1	*Glycera dibranchiata* Ehlers
Rhynchobolus albus	*Glycera alba* (Müller)
Rhynchobolus americanus, pl. 16 [48], fig. 1, pl. 18 [50], fig. 2	*Glycera americana* Leidy
Rhynchobolus capitatus	*Glycera capitata* Oersted
FAMILY **GONIADIDAE**	
Goniada gracilis (Verrill), pl. 15 [47], fig. 2, pl. 18 [50], fig. 3	
Goniada maculata Oersted	
Goniada solitaria Webster	
Ophioglycera gigantea Verrill, pl. 15 [47], fig. 1, pl. 18 [50], fig. 4, pl. 25 [57], fig. 1	
FAMILY **EUNICIDAE**	
**Leodice benedicti*, pl. 23 [55], fig. 5	*Eunice benedicti* (Verrill)
**Leodice polybranchia*, pl. 14 [46], fig. 7, pl. 17 [49], fig. 16	*Eunice floridana* Ehlers
Leodice vivida, pl. 17 [49], fig. 18	*Eunice vivida* Stimpson
[?]**Lycidice americana* Verrill	*Lysidice*, sp.
Marphysa leidyi, pl. 4, fig. 3	*Marphysa sanguinea* (Montagu)
Marphysa sanguinea (Montagu)	

VERRILL	REVISED NAME
FAMILY ONUPHIDAE	
Diopatra cuprea Bosc, pl. 4, fig. 5, pl. 17 [49], fig. 17	
Hyalinoecia artifex, pl. 14 [46], fig. 6, pl. 17 [49], figs. 14, 15	*Hyalinoecia tubicola* (Müller)
Nothria conchylega (Sars)	
Nothria conchyphila, pl. 23 [55], fig. 4	*Nothria conchylega* (Sars)
Nothria opalina Verrill, pl. 17 [49], fig. 19	
Onuphis sicula Quatrefages	
FAMILY LUMBRINERIDAE	
+*Lumbrinereis acuta*, pl. 17 [49], fig. 6	*Lumbrineris acuta* Verrill
Lumbrinereis fragilis	*Lumbrineris fragilis* (Müller)
**Lumbrinereis hebes*	*Lumbrineris hebes* Verrill
**Lumbrinereis tenuis*, pl. 17 [49], figs. 3–5	*Lumbrineris tenuis* Verrill
**Ninoë nigripes* Verrill, pl. 17 [49], fig. 9	
FAMILY ARABELLIDAE	
Arabella opalina, pl. 4, fig. 4	*Arabella iricolor* (Montagu)
Drilonereis longa Webster, pl. 17 [49], fig. 8	
FAMILY DORVILLEIDAE	
**Staurocephalus pallidus*, pl. 17 [49], figs. 10, 11, pl. 23 [55], fig. 6	*Dorvillea rudolphii* (delle Chiaje)
FAMILY ORBINIIDAE	
**Aricia ornata*, pl. 18 [50], fig. 7	*Orbinia ornata* (Verrill)
Naineis quadricuspida	*Naineris quadricuspida* (Fabricius)
Scoloplos acutus, pl. 18 [50], fig. 5, pl. 19 [51], fig. 6	*Scoloplos armiger* (Müller)
Scoloplos armiger (Müller)	
**Scoloplos fragilis*, pl. 14 [46], fig. 5, pl. 18 [50], fig. 6	*Haploscoloplos fragilis* (Verrill)
**Scoloplos robustus*	*Haploscolopus bustorus* (Eisig)
FAMILY SPIONIDAE	
**Dipolydora concharum*, pl. 19 [51], figs. 8, 10	*Polydora concharum* Verrill
**Nerine agilis* Verrill, pl. 18 [50], fig. 11	
**Polydora concharum* Verrill, pl. 19 [51], figs. 8, 10	
[?]**Polydora gracilis* Verrill	
Polydora hamata Webster	
Polydora ligni Webster	
[?]**Polydora littorea* Verrill, pl. 18 [50], figs. 9, 10	
[?]**Polydora tubifex* Verrill	
Prionospio steenstrupi Malmgren	
Prionospio tenuis (Verrill), pl. 19 [51], fig. 7	
Scolelepis cirrata (Sars)	
**Scolelepis tenuis*	*Scolelepides viridis* (Verrill)
**Scolelepis viridis*	*Scolelepides viridis* (Verrill)
**Spio limicola*	*Spio setosa* Verrill
Spio robusta	*Spio setosa* Verrill
Spio setosa Verrill, pl. 18 [50], figs. 12, 13, pl. 20 [52], fig. 11	
Streblospio benedicti Webster	
FAMILY CHAETOPTERIDAE	
Spiochaetopterus oculatus Webster, pl. 18 [50], figs. 14, 15	

VERRILL	REVISED NAME
FAMILY CIRRATULIDAE	
**Acrocirrus leidyi* Verrill, pl. 19 [51], fig. 2, pl. 34 [59], fig. 5	
Chaetozone setosa Malmgren	
Cirratulus cirratus (Müller), pl. 9, fig. 6	
**Cirratulus grandis* Verrill	
+*Cirratulus tenuis*	*Cirratulus grandis* Verrill
[?]*Cirrhinereis fragilis*, ?pl. 19 [51], fig. 3	*Caulleriella fragilis* (Leidy), new combination
Dodecaceria concharum Oersted, pl. 10, fig. 3, pl. 19 [51], fig. 1	
Dodecaceria coralii (Leidy)	
**Heterocirrus fimbriatus*, pl. 19 [51], fig. 4	*Dodecaceria fimbriata* (Verrill)
FAMILY FLABELLIGERIDAE	
Brada granosa Stimpson	
Brada inhabilis (Rathke)	
Brada setosa Verrill, pl. 9, fig. 4, pl. 33 [58], figs. ?12, 13	
Brada sublevis	*Brada granulata* Malmgren
Flabelligera affinis Sars	
Trophonia affinis	*Flabelligera affinis* Sars
Trophonia aspera	*Stylarioides aspera* (Stimpson)
Trophonia plumosa	*Stylarioides plumosa* (Müller)
FAMILY SCALIBREGMIDAE	
**Scalibregma brevicauda*, pl. 9, fig. 5	*Scalibregma inflatum* Rathke
Scalibregma inflatum Rathke	
Eumenia crassa	*Polyphysia crassa* (Oersted)
FAMILY OPHELIIDAE	
Ammotrypane aulogaster Rathke	
+*Ammotrypane fimbriata*, pl. 18 [50], fig. 8	*Ammotrypane aulogaster* Rathke
+*Ophelia denticulata*, pl. 9, fig. 3, pl. 33 [58], fig. 14	*Ophelia limacina* (Rathke)
Ophelia limacina (Rathke)	
Ophelia simplex, pl. 19 [51], fig. 5	Probably *Ophelia limacina* (Rathke)
Travisia carnea Verrill, pl. 8, fig. 1	
Travisia forbesii Johnston	
FAMILY CAPITELLIDAE	
[?]**Areniella filiformis* Verrill	
?Capitella capitata (Fabricius)	
**Notomastus acutus*, pl. 34 [59], fig. 3	*?Capitella capitata* (Fabricius)
[?]**Notomastus filiformis* Verrill, ?pl. 24 [56], fig. 12	
**Notomastus gracilis* Verrill	
**Notomastus luridus* Verrill	
Notomastus latericius Sars	
FAMILY ARENICOLIDAE	
Arenicola ? cristata Stimpson	
Arenicola marina (Linnaeus), pl. 8, fig. 2	
FAMILY MALDANIDAE	
Axiothea catenata, pl. 33 [58], fig. 9	*Axiothella catenata* (Malmgren)
Clymenella torquata (Leidy)	
Maldane biceps, pl. 19 [51], fig. 11	*Asychis biceps* (Sars)
Maldane elongata Verrill, pl. 9, fig. 1, pl. 33 [58], figs. 5, 6	

VERRILL	REVISED NAME
**Maldane filifera*	*Petaloproctus filifer* (Verrill)
Maldane sarsi Malmgren, pl. 33 [58], figs. 3, 4	
Nicomache dispar Verrill, ?pl. 33 [58], fig. 1	
Nicomache lumbricalis (Fabricius)	
Paraxiothea latens	*Clymenella torquata* (Leidy)
Praxillella benedicti	*Praxillella elongata* (Webster)
Praxillella ? elongata (Webster), pl. 33 [58], fig. 7	
Praxillella gracilis (Sars)	
Praxillella praetermissa (Malmgren), pl. 33 [58], fig. 8	
**Praxillella zonalis*	*Euclymene zonalis* (Verrill)
+*Praxillura ornata* Verrill	
Rhodine attenuata Verrill, pl. 9, fig. 2, ?pl. 19 [51], fig. 12	
Rhodine loveni Malmgren	

Family **OWENIIDAE**

Ammochares assimilis	*Owenia fusiformis* delle Chiaje
Ammochares artifex, pl. 33 [58], fig. 2	*Owenia fusiformis* delle Chiaje
Owenia filiformis	*Owenia fusiformis* delle Chiaje

Family **STERNASPIDAE**

Sternaspis fossor Stimpson, pl. 33 [58], fig. 15

Family **SABELLARIIDAE**

Sabellaria vulgaris Verrill, pl. 20 [52], fig. 10

Family **PECTINARIIDAE**

Pectinaria eschrichtii	*Cistenides granulata* (Linnaeus)
**Pectinaria gouldii*, pl. 20 [52], fig. 9	*Cistenides gouldii* Verrill
Pectinaria granulata	*Cistenides granulata* (Linnaeus)
Pectinaria hyperborea	*Cistenides hyperborea* Malmgren

Family **AMPHARETIDAE**

Amage auricula Malmgren	
Amage pusilla	*Sabellides pusilla* (Verrill)
Ampharete arctica Malmgren	
Ampharete finmarchica	*Ampharete arctica* Malmgren
Ampharete gracilis, pl. 20 [52], figs. 7, 8	*Ampharete grubei* Malmgren
Ampharete grubei Malmgren	
**Ampharete setosa* Verrill	
Amphicteis gunneri Sars	
Amphicteis sundevalli Malmgren	
Lysippe lobata	*Lysippe labiata* Malmgren
Melinna cristata (Sars)	
Sabellides oculata Webster	
Samytha sexcirrata (Sars)	
Samythella elongata Verrill	

Family **TEREBELLIDAE**

Amphitrite brunnea (Stimpson), pl. 10, fig. 2	
Amphitrite cirrata (Müller)	
Amphitrite grayi Malmgren	
Amphitrite groenlandica Malmgren	
Amphitrite intermedia	*Amphitrite affinis* Malmgren
Amphitrite ornata (Leidy), pl. 20 [52], figs. 2, 4	
Artacama proboscidea Malmgren	

VERRILL	REVISED NAME
**Enoplobranchus sanguineus* Verrill, pl. 11, fig. 4, pl. 22 [54], fig. 8	
Grymaea spiralis	*Streblosoma spiralis* (Verrill)
Lanassa nordenskioeldi	*Lanassa nordenskioldi* Malmgren
Leaena abranchiata Malmgren	
[?]**Lepraea abyssicola* Verrill, pl. 20 [52], figs. 3, ?6	
Leprea rubra	*Terebella rubra* (Verrill)
**Nicolea simplex*, pl. 10, fig. 1	*Nicolea zostericola* (Oersted)
Pista cristata (Müller), pl. 11, fig. 2	
Polycirrus eximius (Leidy)	
Polycirrus phosphoreus Verrill, pl. 20 [52], fig. 1	
Scione lobata	*Pista maculata* (Dalyell)
**Scionopsis palmata*, pl. 11, fig. 3	*Pista palmata* (Verrill)
Terebellides stroemi Sars	
Thelepus cincinnatus (Fabricius), pl. 11, fig. 1	
Trichobranchus glacialis Malmgren	
FAMILY **SABELLIDAE**	
Chone duneri Malmgren	
Chone infundibuliformis Kröyer	
Euchone elegans Verrill, pl. 21 [53], fig. 2	
Euchone tuberculosa (Kröyer)	
Fabricia stellaris, pl. 21 [53], figs. 4, 5, pl. 34 [59], fig. 7	*Fabricia sabella* (Ehrenberg)
Myxicola steenstrupii, pl. 21 [53], fig. 1	*Myxicola infundibulum* (Montagu)
Potamilla neglecta (Sars)	
Potamilla oculifera, pl. 21 [53], figs. 3, 6	*Pseudopotamilla reniformis* (Müller)
Potamilla reniformis	*Pseudopotamilla reniformis* (Müller)
**Sabella microphthalma* Verrill	
Sabella ? neglecta	*Potamilla neglecta* (Sars)
Sabella ? pavonia	*Sabella penicillus* Linnaeus
Sabella picta Verrill, pl. 20 [52], fig. 5, pl. 21 [53], fig. 7	*Chone infundibuliformis* Kröyer
Sabella ? saxicava	*? Pseudopotamilla reniformis* (Müller)
FAMILY **SERPULIDAE**	
Filigrana implexa	*Filograna implexa* Berkeley
**Hydroides dianthus* (Verrill)	
Protula media Stimpson, pl. 33 [58], fig. 17	
Spirorbis borealis Daudin	
Spirorbis ? cancellatus (Fabricius)	
Spirorbis carinata Daudin	
Spirorbis granulatus (Linnaeus)	
Spirorbis lucidus, pl. 22 [54], fig. 2	*Spirorbis spirillum* (Linnaeus)
Spirorbis nautiloides	*Spirorbis spirillum* (Linnaeus)
Spirorbis quadrangularis Stimpson	
Spirorbis sinistrorsus	*Spirorbis spirillum* (Linnaeus)
**Spirorbis stimpsoni*, pl. 22 [54], fig. 3	*Spirorbis ? borealis* Daudin
**Spirorbis validus* Verrill	
Spirorbis vitreus Levinsen	
Vermilia serrula Stimpson, pl. 22 [54], fig. 5	