

A Catalog of the Type-Specimens
of Recent Cephalopoda in the
National Museum of Natural History

CLYDE F. E. ROPER
and
MICHAEL J. SWEENEY

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ABSTRACT

Roper, Clyde F. E., and Michael J. Sweeney. A Catalog of the Type-Specimens of Recent Cephalopoda in the National Museum of Natural History. *Smithsonian Contributions to Zoology*, number 278, 19 pages, 1978.—The catalog of the type-specimens of Recent Cephalopoda deposited in the National Museum of Natural History consists of 142 nominal species in 65 nominal genera. Publication and collection data are summarized for all species. Indices for taxa and authors are included.

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A Catalog of the Type-Specimens of Recent Cephalopoda in the National Museum of Natural History

*Clyde F. E. Roper
and Michael J. Sweeney*

Introduction

The collections of Recent cephalopods in the Division of Mollusks, Department of Invertebrate Zoology, at the National Museum of Natural History (NMNH) are of great historical and contemporary significance. They are comprised of material collected during the extensive early exploratory expeditions of the old U.S. Fish Commission vessels (e.g., *Blake*, *Fish Hawk*, and *Albatross*), as well as from more recent oceanographic and fisheries research vessels (e.g., *Oregon*, *Eltanin*, and *Pillsbury*). Because U.S. vessels were among the first to explore in detail certain geographical areas, a number of new taxa were described from the rich material collected. Many of the collections, and particularly primary type material were ultimately deposited in the NMNH. Since no NMNH curator formerly specialized in recent cephalopods, the collections were loaned to teuthologists at other institutions for study. Most notable among these teuthologists are A. E. Verrill (1873–1885), S. S. Berry (1909–1921), M. Sasaki (1920), and G. L. Voss (1950–present), who have described the vast majority of new taxa now deposited in the national collection of cephalopods.

The systematic and historical importance of the collection, and the broad geographical range represented, indicate the desirability for a catalog of the

type-specimens deposited in the national collection. We hope this catalog will be an aid to current and future teuthologists concerned with the systematics of this important class of mollusks.

The catalog of the type-specimens of cephalopods in the National Museum of Natural History was compiled and verified in several ways. First, the specimens designated as primary types in the type collection were checked and verified with the original descriptions. Second, an exhaustive search of the literature was conducted to determine all type material that had been designated for deposit in NMNH. Finally, the general cephalopod collection at NMNH, Yale Peabody Museum, and Museum of Comparative Zoology, Harvard University, were searched for unrecognized or "lost" type-specimens.

The NMNH is the designated national depository for type material collected during research funded by the government of the United States, so species from a wide variety of collectors and geographic areas are represented in the collections. The general and type collections are encouraged to grow in order to serve the requirements of current exploration and research, as well as to provide a foundation for future work.

The catalog includes 142 nominal species in 65 nominal genera. Only primary types are included (holotypes, paratypes, syntypes, and previously designated lectotypes and neotypes). Data for the cataloged specimens were taken only from the original and subsequent descriptions by the author of a

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taxon. Published data about types were checked against original specimen labels for accuracy; published and unpublished station data records were referred to in order to reconcile discrepancies and to further verify the data. Errors in data published in previous works are corrected in this catalog.

Numerous problems arose from the lack of designation of types by original authors. The definitions provided by the *International Code of Zoological Nomenclature* (1961) are followed. The definition of a paratype was particularly important when an author attempted to designate a paratype(s) in a publication subsequent to the original description. When only a holotype was designated, the remaining specimens listed in the originally described type series are here considered paratypes unless explicitly excluded by the author (Sabrosky, pers. comm.).

The catalog presents information concerning types in the following format:

Species, genus, author, year of publication: pagination and plate numbers of species description. Category of type: NMNH Mollusks catalog number, number of specimens and sex (where known), mantle length in mm, collector (ship or person) and station number, locality collected, sampling gear, depth collected (meter equivalent), date collected. (Comments.)

Very occasionally subspecies or subgenera are listed, and in such cases the subspecific name precedes the generic and specific name, while the subgeneric name follows the generic name.

Frequently, in an original description the locality of capture of a specimen was recorded only by the station number. In such cases we have included actual locality, or latitude and longitude, and other pertinent collecting information, if available, from the original station records. If information is not available in the original or subsequent publications (e.g., depth or date collected, etc.), that particular element of data is not listed in the catalog. When latitude and longitude are not cited in the original work(s), we give a descriptive location based on existing original information. If the mantle length was not given by the original author, we measured the specimen and here list the mantle length in brackets. Measurements of mantle length are as defined by Voss (1963b). Until 1966 all the type-specimens were preserved in 70% ethyl alcohol. Since that time all cephalopod specimens have been preserved in 50% isopropyl alcohol.

The phrase "holotype was unique specimen" is

used when the holotype was the only specimen available for description by the original author. The phrase "deposition of specimen unknown" is used when the paratype (or one of the paratypes) not deposited in the NMNH is referred to, but we have been unable to determine its present deposition. If a specimen has not been found in our searches through the collections of the NMNH, Yale Peabody Museum, or the Museum of Comparative Zoology, Harvard University, or it is known to be lost, the specimen is identified by the phrase "specimen is no longer extant." *

Several listings for species contain the comment "No paratypes designated" to indicate that the author did not include or list additional material or designate a paratype(s) in the publication, even though material other than the holotype is now known to have been at hand at the time of the original description. This material would have constituted the type series had it been included in the original description.

Comments pertaining to the species in general occur in parentheses at the end of the listing. Notations in parentheses within the entry refer to the specimen or datum immediately preceding the notation.

Following the catalog of species, a taxonomic list is presented of the original genera under which the species were described. (Current generic placements are not given.) Another list itemizes the authors with the species and genera they described. All original publications and pertinent subsequent works are listed in "Literature Cited."

The abbreviations used in the catalog are as follows:

ANSP	Academy of Natural Sciences, Philadelphia
BM(NH)	British Museum (Natural History), London
CALCOFI	California Co-operative Fisheries Investigations
CAS, CASIZ	California Academy of Sciences, California Academy of Sciences Department of Invertebrate Zoology Collection

*The tragic loss of several late 19th century and early 20th century types occurred during the long period that the molluscan collections preserved in alcohol were housed apart from the shelled (dry) molluscs. Consequently, since they received little curatorial attention, they either dried up completely or deteriorated in inadequate preservative. In the 1950's G. L. Voss resurrected the long-neglected cephalopod collections, and since 1963 a separate room for alcohol-preserved specimens has been located in the Division of Mollusks, where constant curatorial care has been maintained since 1966.

CPES	Chiba Prefectural Fisheries Experiments Station, Japan	USC, AHF	University of Southern California, Allan Hancock Foundation
EBPC	Estacion de Biologia Pesquera de Campeche, Mexico	USNM	former United States National Museum, now National Museum of Natural History
IKMT	Isaacs-Kidd Midwater Trawl	UZM	Universitetets Zoologiske Museum, Copenhagen, Denmark
IOM	Institute of Oceanography, Monaco	VIMS	Virginia Institute of Marine Science, University of Virginia
MCZ	Museum of Comparative Zoology, Harvard University	VML	ventral mantle length
mwo	meters of wire out	YPM	Peabody Museum, Yale University
NMNH	National Museum of Natural History, Smithsonian Institution, Washington, D.C.		
RSMAS	Rosenstiel School of Marine and Atmospheric Science, University of Miami, Florida		
SAM	South African Museum, Cape Town		
SIO	Scripps Institute of Oceanography, University of California, San Diego		
SSB	Dr. S. Stillman Berry, Redlands, California, personal collection		
TRFRL	Tokai Regional Fisheries Research Laboratory, Japan		

We would like to thank the people who previously have cataloged portions of the cephalopod type collection, especially W. J. Byas and A. Cohen. The helpful discussions with C. W. Sabrosky and F. M. Bayer (NMNH) and G. L. Voss (RSMAS) on some points of taxonomic rules are very much appreciated. We also are grateful for the critical reviews of the manuscript by G. L. Voss, F. M. Bayer, and J. Rosewater.

Catalog

abruptus, *Polypus*, Sasaki, 1920:173–174. Holotype: USNM 332935a, 1 ♂, 98 mm, *Albatross* Sta 4969, Pacific Ocean, 33°23'40"N, 135°33'E, 9 ft Agassiz trawl, 587 fms (1073 m), 29 Aug 1906. Paratype: USNM 332935b, 1 ♀, same station as holotype. (Paratype is no longer extant.)

adami, *Pholidoteuthis*, Voss, 1956:132–136, fig 9a-h. Holotype: USNM 575139, 1 ♀, 175 mm, *Oregon* Sta 382, Gulf of Mexico, 29°11'30"N, 88°07'30"W, 100 ft flat trawl, 190–210 fms (347–384 m), 21 Jun 1951. Paratypes: USNM 575140, 1 ♂ 4 ♀, 159–222 mm, same station as holotype. USNM 575141, 1 ♀, 160 mm, *Oregon* Sta 640, Gulf of Mexico, 29°01'N, 88°24'W, 40 ft flat trawl, 355–475 fms (649–868 m), 19 Sep 1952. Other paratypes are at RSMAS (*Oregon* Sta. 382, 5 ♀).

agassizii, *Mastigoteuthis*, Verrill, 1881b:100–102, pls 1 (fig 1), 2 (figs 2,3). Syntypes: USNM 574642, 1 ♂, 46 mm, *Blake* Sta 325, Atlantic Ocean, 33°35'20"N, 76°00'00"W, 647 fms (1183 m), 14 Jul 1880. USNM 729733, 1 ♂, 99 mm, *Blake* Sta 328, Atlantic Ocean, 34°28'45"N, 75°22'50"W (latitude incorrectly published as 34°28'25"N), 1632 fms (2983 m), 15 Jul 1880.

agilis, *Teleoteuthis* (*Onychia*), Verrill, 1885:400–401, pl 42 (fig 2). Holotype: USNM 40129, 1, 46 mm, *Albatross* Sta 2225, Atlantic Ocean, 36°05'30"N, 69°51'45"W, surface, 9 Sep 1884. (Holotype was unique specimen.)

alatus, *Polypus*, Sasaki, 1920:180, pl 24 (fig 4). Holotype: USNM 332978, 1 ♂, 70 mm, *Albatross* Sta 4957, Pacific Ocean, 32°36'N, 132°23'E, 9 ft Agassiz trawl, 437 fms (799 m), 23 Aug 1906. Paratype: USNM 332979, 1 ♂, 29 mm, *Albatross* Sta unknown.

albatrossae, *Eupryma*, Voss, 1962:171–172. Holotype: USNM 575331, 1 ♂, 24 mm, *Albatross* Sta 5459, Pacific Ocean, Philippine Islands, off Catanduanes Island, dip net and submerged electric light, surface, 9 Jun 1909. Paratypes: USNM 575332, 1 ♂ 3 ♀, same station as holotype. Other paratype is at RSMAS (1 ♂, same station as holotype).

albatrossi, *Sepia kobeensis*, Sasaki, 1920:195, pl 26 (figs 2,3). Holotype: USNM 332862, 1 ♂, 34 mm, *Albatross* Sta 4875, Sea of Japan, 34°19'N, 130°09'E, 9 ft Agassiz trawl, 59 fms (108 m), 2 Aug 1906. Paratypes: USNM 577551, 2 ♀, 26–28 mm, same station as holotype. USNM 332861, 1 ♀, 21 mm, *Albatross* Sta 4931, Pacific Ocean, 30°12'N, 130°43'40"E, 9 ft Agassiz trawl, 83 fms (152 m), 15 Aug 1906. USNM 332863, 1 ♀, 21 mm, *Albatross* Sta 4878, Sea of Japan, 34°18'30"N, 130°14'30"E, 9 ft Agassiz trawl, 59 fms (108 m), 2 Aug 1906.

albatrossi, *Stauroteuthis*, Sasaki, 1920:169–170, pl 23 (figs 2,3). Holotype: USNM 332949, 1 ♂, 23 mm, *Albatross* Sta 5050, Pacific Ocean, 38°11'30"N,

- 142°08'E, 9 ft Albatross-Blake trawl, 266 fms (486 m), 10 Oct 1906. Paratypes: USNM 332948, 1 ♀, 50 mm, *Albatross* Sta 5084, Pacific Ocean, 34°N, 137°49'40"E, 9 ft Agassiz trawl, 918 fms (1678 m), 20 Oct 1906. USNM 332950, 1 ♀, 40 mm, *Albatross* Sta 4771, Bering Sea, 54°30'N, 179° 17'E, 12 ft Tanner trawl, 426 fms (779 m), 4 Jun 1906. USNM 332951, 1 ♀, 12 mm, *Albatross* Sta 5029, Sea of Okhotsk, 48°22'30"N, 145°43'30"E, 9 ft Agassiz trawl, 440 fms (804 m), 28 Sep 1906.
- anapsis*, *Enoploteuthis*, Roper, 1964:140-148, figs 1,2. Holotype: USNM 575605, 1 ♀, 68 mm, *Oregon* Sta 1887, Caribbean Sea, 16°55'N, 81°10'W, 40 ft flat trawl, 300 fms (548 m), 23 Aug 1957. Paratypes: USNM 575606, 1 ♀, 73 mm, *Oregon* Sta unknown, Gulf of Mexico. USNM 576155, 1 ♀, 27 mm, *Dana* Sta 1292 V, Caribbean Sea, 17°43'N, 64°56'W, 200 cm Stramin-net, 35 m (est) (100 mwo), 16 Apr 1922. Other paratypes are at UZM and BM(NH).
- anonychus*, *Gonatus*, Percy and Voss, 1963:105-109, figs 1,2. Holotype: USNM 575559, 1 ♂, 69 mm, M. Laurs on vessel *Acona*, Pacific Ocean, 45°26'48"N, 125°08'06"W, dip net, surface, 11 Sep 1960. Paratypes are at RSMAS (2 ♂ 2 ♀).
- antarctica*, *Graneledone*, Voss, 1976:448-454, figs 1,2. Holotype: USNM 729679, 1 ♂, 41 mm, *Eltanin* Sta 2110, Southern Ocean, 74°05'36"S, 175°05'12"W, 10 ft Blake trawl, 2341 m, 8 Feb 1968. Paratypes: USNM 729680, 1 ♂ 3 ♀, 41-25 mm, same station as holotype. Other paratypes are at RSMAS (1 ♂ 1 ♀, 39-45 mm).
- apollyon*, *Polypus*, Berry, 1912b:284. Holotype: USNM 214319, 1 ♂, 81 mm (mantle length = posterior end of mantle to base of umbrella, dorsal side), *Albatross*, Pacific Ocean, Kodiak Island, Uyak Bay, seine, 14 Aug 1903. (Holotype is no longer extant.) Paratype is at CAS (CASIZ 461, 1 ♂, SSB 145).
- astrosticta*, *Abralia*, Berry, 1909:412-414, figs 4-7. Holotype: USNM 214313, 1 ♀, 34 mm, *Albatross* Sta 4122, Pacific Ocean, Hawaiian Islands, off Oahu Island, 8 ft Blake trawl, 192-352 fms (351-643 m), 26 Jul 1902. (Holotype was unique specimen.)
- bacidifera*, *Bathyteuthis*, Roper, 1968:161-169, pls 1-4, 7. Holotype: USNM 576148, 1 ♀, 37 mm, *Eltanin* Sta 34, Pacific Ocean, 7°47'S, 81°23'W, 10 ft IKMT, 683 m, 7 Jun 1962. Paratypes: USNM 727492, 1 ♀, 34 mm, *Eltanin* Sta 54, Pacific Ocean, 18°23'S, 72°39'W, 10 ft mid-water beam trawl, 1373 m, 16 Jun 1962. USNM 727493, 1 ♂, 28 mm, *Pillsbury* Sta 510, Pacific Ocean 6°54'N, 79°57'W, 40 ft otter trawl, 3182 m, 3 May 1967. Other paratypes are at RSMAS (1 ♂) and UZM (1 ♀).
- bairdii*, *Octopus*, Verrill, 1873:5-6. Syntypes: USNM 575315, 1 ♂, 44 mm, *Mosswood* Sta +x', Atlantic Ocean, 44°45'N, 67°00'W, 75-80 fms (137-146 m), 2 Aug 1872. USNM 574638, 1, [25 mm], *Mosswood* Sta +t, Atlantic Ocean, 44°45'N, 66°30'W, 90-106 fms (165-194 m), 24 Aug 1872. (Type series collected at four *Mosswood* stations, total of seven syntypes.)
- balboi*, *Octopus*, Voss, 1971:16-19, fig 2a-e. Holotype: USNM 577618, 1 ♂, 33 mm, R. Tweedle, Pacific Ocean, Panama, Chame Point. (Holotype was unique specimen.)
- bartschi*, *Uroteuthis*, Rehder, 1945:22-25, pl 3. Holotype: USNM 573515, 1 ♂, 199 mm (VML), *Albatross*, Pacific Ocean, Philippine Islands, Jolo Island, Jolo harbor, dip net and submerged electric light, surface, 8 Feb 1908. Paratypes: USNM 573512, 1 ♂, [131 mm], same station as holotype. (Figured specimen.) USNM 573513, 13 ♂, 181-223 mm, same station as holotype. USNM 573514, 4 ♀, 120-125 mm, same station as holotype. Other paratypes are at RSMAS (same station as holotype, 3 ♂ 1 ♀).
- beanii*, *Brachioteuthis*, Verrill, 1881a:406-408, pls 55 (fig 3), 56 (fig 2). Syntypes: USNM 574640, 1 ♂, 62 mm, *Fish Hawk* Sta 1031, Atlantic Ocean, 39°57'N, 69°19'W, fish stomach, 255 fms (466 m), 14 Sep 1881. USNM 729736, 1 ♀ (?), "tail missing," *Fish Hawk* Sta 1033, Atlantic Ocean, 39°56'N, 69°24'W, fish stomach, 183 fms (334 m), 14 Sep 1881.
- behringiana*, *Crystalloteuthis*, Sasaki, 1920:202-203, pl 26 (fig 4). Holotype: USNM 332921, 1, 27 mm, *Albatross* Sta 4783, Pacific Ocean, 52°55'30"N, 173°30'E, plankton net, 30 fms (55 m), 9 Jun 1906. Paratypes: USNM 332919, 2, 14-17 mm, *Albatross* Sta 4793, Pacific Ocean, 54°48'N, 164°54'E, plankton net, 300 fms (est) (548 m), 16 Jun 1906. USNM 332920, 1, 14 mm, *Albatross* Sta 4765, Pacific Ocean, 53°12'N, 171°37'W, plankton net, 300 fms (548 m), 29 May 1906. USNM 332922, 1, 11 mm, *Albatross* Sta 4806, Pacific Ocean, 42°13'N, 144°21'E, plankton net, 200 fms (366 m), 26 Jun 1906. USNM 332923, 1,

- 18 mm, *Albatross* Sta 5030, Sea of Okhotsk, 46°29'30"N, 145°46'E, 9 ft Agassiz trawl, 300 fms (est) (3290 m), 29 Sep 1906.
- berryi*, *Bathyteuthis*, Roper, 1968:169–172, pls 5–7. Paratypes: USNM 727501, 1 ♀, 19 mm, *Velero IV* Sta 10976, Pacific Ocean, 32°35'00"N, 120°35'06"W, 10 ft IKMT, 1300 m (est), 17 Feb 1966. USNM 727502, 1 ♂, 23 mm, *Velero IV* Sta 10540, Pacific Ocean, 29°05'04"N, 118°12'00"W, 10 ft IKMT, 1300 m (est), 6 Apr 1965. Holotype is at USC AHF (USC, AHF Cephalopod Type 10). Other paratype is at RSMAS (1 ♂).
- berryi*, *Histioteuthis corona*, Voss, 1969:781–784, figs 19, 20. Holotype: USNM 576079, 1 ♂, 47 mm, SIO XIX-2, Pacific Ocean, 29°17'N, 125°41'W, 750 mwo, 12 May 1955. Paratype is at SIO (1 ♀).
- bimaculatus*, *Octopus*, Verrill, 1883b:121–123, pls 5 (fig 1), 6. Syntype: USNM 575560, 1 ♂, D. S. Jordan, Pacific Ocean, United States, Santa Barbara. (Verrill, 1883, and Verrill's specimen label give locality as San Diego. Jordan's handwritten label gives locality as Santa Barbara. Specimen is in poor condition.) Other syntype is at YPM (1 ♂).
- bimaculoides*, *Octopus*, Pickford and McConnaughey, 1949:14–27, figs 8–21. Holotype: USNM 574743, 1 ♀, 39 mm, McConnaughey, Pacific Ocean, United States, California, LaJolla, 29 May 1948. Paratype: USNM 574745, 1 ♂, 43 mm, same station as holotype.
- bipapillata*, *Rossia*, Sasaki, 1920:190–191, pl 25 (fig 3). Holotype: USNM 332830, 1 ♀, 19 mm, *Albatross* Sta 5069, Pacific Ocean, 35°03'10"N, 138°47'E, 9 ft Albatross-Blake trawl, 131–108 fms (239–197 m), 15 Oct 1906. (Holotype was unique specimen.)
- bullisi*, *Rossia (Allorossia)*, Voss, 1956:101–103, fig 2a–d. Holotype: USNM 575115, 1 ♂, 36 mm, *Oregon* Sta 501, Gulf of Mexico, 27°51'30"N, 91°32'30"W, 40 ft flat trawl, 220 fms (402 m), 11 Nov 1951. Paratypes: USNM 575116, 1 ♀, 41 mm, *Oregon* Sta 382, Gulf of Mexico, 29°11'30"N, 88°07'30"W, 100 ft flat trawl, 190–210 fms (347–384 m), 21 Jun 1951. USNM 575117, 1 ♂, 40 mm, *Oregon* Sta 639, Gulf of Mexico, 29°12'24"N, 88°20'36"W, 100 ft mudrope trawl, 200 fms (366 m), 19 Sep 1952. Other paratypes are at RSMAS (*Oregon* Sta 516, 4 ♂ 6 ♀).
- burryi*, *Octopus (Octopus)*, Voss, 1950:76–79, figs. 2,3. Holotype: USNM 574598, 1 ♀, 30 mm, L. A. Burry, Gulf of Mexico, United States, Florida, SE of Sombrero Light, Blake trawl, 100 fms (183 m), 31 Jul 1949. (Holotype was unique specimen.)
- californicus*, *Polypus*, Berry, 1911b:590. Holotype: USNM 214321a, 1 ♂, 89 mm (mantle length = posterior end of mantle to base of umbrella, dorsal side), *Albatross* Sta 4325, Pacific Ocean, United States, California, off San Diego, 9 ft Tanner trawl, 275–292 fms (503–534 m), 8 Mar 1904. (Holotype is no longer extant.) Paratype: USNM 214321b, 1 ♂, same station as holotype. (Paratype is no longer extant.) Other paratype is at CAS (CASIZ 460, 1 ♂).
- californiensis*, *Gonatus*, Young, 1972:51–56, pls 15–17. Paratype: USNM 727491, 1, 46 mm, *Velero IV* Sta 9960, Pacific Ocean, 33°17'N, 118°39'W, 10 ft IKMT, 615 m (est) (1845 m), Sep 1964. Holotype and other paratypes (8) are at USC, AHF. Holotype is USC, AHF Cephalopod Type 6.
- calyx*, *Chiroteuthis*, Young, 1972:69–72, pls 20–22. Paratype: USNM 727481, 1, 60 mm, *Velero IV* Sta 7280, Pacific Ocean, 33°29'N, 118°20'W, 10 ft IKMT, 308 m (est) (925 mwo), 2 Feb 1961. Holotype and other paratypes (3) are at USC, AHF. Holotype is USC, AHF Cephalopod Type 8.
- carinata*, *Sepia*, Sasaki, 1920:192–193, pls 25 (fig 2), 26 (fig 1). Holotype: USNM 332849, 1 ♂, 26 mm, *Albatross* Sta 5092, Pacific Ocean, 35°04'50"N, 139°38'18"E, 9 ft Albatross-Blake trawl, 70 fms (128 m), 26 Oct 1906. Paratype: USNM 332848, 1 ♀, 25mm, *Albatross* Sta 5094, Pacific Ocean, 35°04'42"N, 139°38'20"E, 9 ft Albatross-Blake trawl, 88 fms (161 m), 26 Oct 1906.
- carolinensis*, *Octopus*, Verrill, 1884:235. Holotype: USNM 35673, 1 ♀, [28 mm], *Albatross* Sta 2109, 35°14'20"N, 74°59'10"W, beam trawl, 142 fms (260 m), 9 Nov 1883. (Holotype was unique specimen.)
- clara*, *Froekenia*, Hoyle, 1904:7–8, pls, 2,3. Holotype: USNM 382468, 1, *Albatross* Sta 3358, Pacific Ocean, 6°30'N, 81°44'W, large beam trawl, 555 fms (1015 m), 24 Feb 1891. (Holotype was unique specimen. Specimen is no longer extant.)
- compacta*, *Teleoteuthis*, Berry, 1913b:565. Holotype: USNM 214381, 1, 21 mm, *Albatross* Sta 3989, Pacific Ocean, Hawaiian Islands, off Kauai Island, 8 ft Tanner trawl, 500–385 fms (914–704 m), 11 Jun 1902. (Holotype was unique specimen. Specimen in very poor condition.)

- corona*, *Teuthowenia (Ascoteuthis)*, Berry, 1920:296, pl 16 (fig 7). Holotype: USNM 338695, 1, 27 mm, *Bache* Sta 10173, Atlantic Ocean, 32°27'N, 68°22'W, plankton net, 100–0 m, 4 Feb 1914. (No paratypes designated.)
- corona*, *Calliteuthis*, Voss and Voss, 1962:191–198, figs 5,6b–d. Holotype: USNM 576160, 1 ♀, 46 mm, *Oregon* Sta 384, Gulf of Mexico, 29°10'N, 88°00'W, 40 ft flat trawl, 265–300 fms (484–548 m), 21 Jun 1951. Paratypes are at RSMAS (5 ♀).
- deletron*, *Octopoteuthis*, Young, 1972:40–43, pls 10–12. Paratype: USNM 727483, 1 ♀, 39 mm, *Velero IV* Sta 8025, Pacific Ocean, 33°16'N, 118°38'W, 10 ft IKMT, 563 m (est) (1690 mwo), 7 Aug 1962. Holotype (♂) and other paratypes (3 ♂ 2 ♀) are at USC, AHF. Holotype is USC, AHF Cephalopod Type 3.
- dentata*, *Mastigoteuthis*, Hoyle, 1904:34–35, pl 6 (figs 8–11). Lectotype: USNM 574643, 1 ♂, 72 mm, *Albatross* Sta 3394, Pacific Ocean, 7°21'N, 79°35'W, large beam trawl, 511 fms (934 m), 10 Mar 1891, (designated lectotype, Young, 1972:66). Syntype: USNM 729453, 1 ♀, 140 mm, *Albatross* Sta 3400, Pacific Ocean, 0°36'S, 86°46'W, large beam trawl, 1322 fms (2417 m), 27 Mar 1891.
- diaphana*, *Leptoteuthis*, Verrill, 1884:141–143, pl 32 (fig 1). Holotype: USNM 38242, 1, 50 mm, *Albatross* Sta 2037, Atlantic Ocean, 38°53'00"N, 69°23'30"W, beam trawl, 1731 fms (3164 m), 18 Jul 1883. (Holotype was unique specimen.)
- diegensis*, *Rossia pacifica*, Berry, 1912b:293. Syntypes: USNM 214376, 1 ♂ 6 ♀, 12–31 mm, *Albatross* Sta 4356, Pacific Ocean, United States, California, off San Diego, 8 ft Tanner trawl, 120–131 fms (219–239 m), 15 Mar 1904. Other syntypes (same station as USNM 214376) are at CAS (CASIZ 257, 1 ♂ and 258, 1 ♀).
- diomedea*, *Loligo*, Hoyle, 1904:29–30, pls 5,6. Holotype: USNM 574847, 1 ♀, 85 mm, *Albatross* Sta 3422, Pacific Ocean, 16°47'30"N, 99°59'30"W, small beam trawl, 141 fms (258 m), 12 Apr 1891. (Holotype was unique specimen.)
- discus*, *Discoteuthis*, Young and Roper, 1969:5–9, pls 3,4,7–9. Holotype: USNM 576214, 1 ♂, 53 mm, *Pillsbury* Sta 36, Atlantic Ocean, 3°50'N, 2°37'W, 10 ft IKMT, 750 m (est) (2400 mwo), 29 May 1964. Paratypes: USNM 727513, 1 ♂, 24 mm, *Pillsbury* Sta 473, Caribbean Sea, 13°08'N, 61°55'W, 10 ft IKMT, 450 m (est) (1350 mwo), 1 Aug 1966. USNM 727514, 1 ♀, 45 mm, *Dana* Sta unknown.
- dislocata*, *Leachia*, Young, 1972:80–83, pls 30–32. Paratypes: USNM 727467, 2 ♀, 87–112 mm, *Velero IV* Sta 8025, Pacific Ocean, 33°16'N, 118°38'W, 10 ft IKMT, 563 m (est) (1690 mwo), 7 Aug 1962. Holotype (♂) and other paratypes (3 ♂ 6 ♀) are at USC, AHF. Holotype is USC, AHF Cephalopod Type 11.
- ecthambus*, *Sandalops*, Berry, 1920:297–298, pl 16 (fig 2). Holotype: USNM 338697, 1, 22 mm, *Bache* Sta 10208, Atlantic Ocean, 27°46'N, 78°46'W, plankton net, 100–0 m, 21 Mar 1914. (Holotype was unique specimen.)
- elongata*, *Calliteuthis*, Voss and Voss, 1962:184–190, figs 4,6a. Paratype: USNM 78083, 1 ♀, 166 mm, *Albatross* Sta 2687, Atlantic Ocean, 39°46'N, 71°19'W, large beam trawl, surface (original label reads "surface," *Albatross* station data reads "326 fms"), 18 Jul 1886. Holotype is at MCZ (224813, 1 ♀). Other paratypes are at MCZ (224811), YPM (12440a, 1 ♀) and IOM.
- eltaninae*, *Histioteuthis*, Voss, 1969:755–763, figs 3d-e,5c,7d, 12,13,14i-m. Holotype: USNM 576164, 1 ♀, 53 mm, *Eltanin* Sta 1723, Pacific Ocean, 40°05'S, 149°55'W, 10 ft IKMT, 880 m (est), 18 Jul 1966. Paratypes: USNM 576170, 1 ♂, 57 mm, *Eltanin* Sta 325–20, Pacific Ocean, 56°06'S, 71°14'W, 10 ft IKMT, 983 m, 7 Nov 1962. USNM 576171, 1 ♂, 45 mm, *Eltanin* Sta 1270, Pacific Ocean, 57°31'S, 125°16'W, 10 ft IKMT, 851–933 m, 1 Sep 1964. USNM 576172, 1 ♀, 45 mm, *Eltanin* Sta 235–20, Atlantic Ocean, 59°06'S, 67°59'W, 10 ft IKMT, 1830 m, 2 Oct 1962. USNM 576173, 1 ♂, 39 mm, *Eltanin* Sta 1107–13–4, Pacific Ocean, 58°00'S, 90°36'W, 10 ft IKMT, 714–851 m, 24 May 1964. USNM 576174, 1 ♂, 35 mm, *Eltanin* Sta 110–15, Atlantic Ocean, 56°59'S, 62°16'W, 10 ft IKMT, ca. 2890 m, 19 Jul 1962. USNM 576175, 1 ♂, 30 mm, *Eltanin* Sta 1201, Pacific Ocean, 56°14'S, 160°05'W, 10 ft IKMT, 1120 m, 8 Aug 1964. Other paratypes are at RSMAS (2 ♂, 34–66 mm).
- equalis*, *Rossia (Semirossia)*, Voss, 1950:73–75, fig 1. Holotype: USNM 574599, 1 ♂, 27 mm, L. A. Burry, Gulf of Mexico, United States, Florida, off Pelican Shoal, Blake trawl, 100 fms (183 m), 16 Aug 1949. Paratypes are at RSMAS and "in G. L. Voss collection."

- expansa*, *Argonauta*, Dall, 1872:303. Holotype: USNM 61368, 1 (shell only), Pacific Ocean, Gulf of California.
- falco*, *Abraliopsis*, Young, 1972:13–17, pls 1,2. Paratype: USNM 727480, 1 ♂ 1 ♀, 36–44 mm, *Velero IV* Sta 10679, Pacific Ocean, 28°54'N, 118°08'W, 10 ft IKMT, 31 m (est) (93 mwo), 28 Aug 1968. Holotype (♂) and other paratypes (3 ♂ 3 ♀) are at USC, AHF. Holotype is USC, AHF Cephalopod Type 1.
- famelica*, *Chiroteuthis*, Berry, 1909:414–415, fig 8. Holotype: USNM 214314, 1, 39 mm, *Albatross* Sta 3989, Pacific Ocean, Hawaiian Islands, off Kauai, 8 ft Tanner trawl, 500–385 fms (914–704 m), 11 Jun 1902. (Holotype was unique specimen. Specimen is no longer extant.)
- felis*, *Abraliopsis* (*Watasenia*), McGowan and Okutani, 1968:72–74, pls 9,10. Holotype: USNM 678792, 1 ♂, 36 mm, CALCOFI Sta 25–87.90, Pacific Ocean, 31°59'N, 122°24'W, 1 m plankton net, 0–200 m, 25 May 1951. Paratype: USNM 678793, 1 ♀, 41 mm, CALCOFI, Pacific Ocean, 32°39'18"N, 117°37'12"W, Aug 1953. Other paratypes are at CAS (CASIZ 310, 1 ♂) and SIO (1 ♂).
- fisheri*, *Helicocranchia*, Berry, 1909:417–418. Holotype: USNM 214316, 1, 47 mm, *Albatross* Sta 3883, Pacific Ocean, Hawaiian Islands, off Maui Island, 9 ft Tanner trawl, 277–284 fms (506–519 m), 16 Apr 1902. (Holotype was unique specimen.)
- gelatus*, *Tremoctopus*, Thomas, 1977:371–378, figs 10–12. Holotype: USNM 727076, 1 ♀, 328 mm, T. Lovins, Atlantic Ocean, United States, Florida, Boynton Municipal Beach, beach stranding, 20 May 1971. Paratypes: USNM 727077, 2 ♀, 26–40 mm, *John R. Manning* Sta 26–6, Pacific Ocean, 36°11'N, 149°00'W, 22 Jul 1955. Other paratypes are at RSMAS (2 ♀), SAM, and SIO.
- gilbertianus*, *Polypus*, Berry, 1912b:284–286, pls 35–37. Holotype: USNM 214320, 1 ♂, 65 mm (mantle length = posterior end of mantle to base of umbrella, dorsal side), *Albatross* Sta 4228, Pacific Ocean, United States, Alaska, Naha Bay, Behm Canal, 8 ft Tanner trawl, 41–134 fms (75–245 m), 7 Jul 1903. Paratype is at CAS (CASIZ 510, 1 ♂; SSB 140).
- glaber*, *Polypus*, Sasaki, 1920:172–173. (*glaber* preoccupied, *P. hokkaidensis* proposed by Berry, 1921:352.) Holotype: USNM 332981, 1 ♂, 58 mm, *Albatross* Sta 5045, Pacific Ocean 42°11'10"N, 142°12'E, 9 ft Albatross-Blake trawl, 359 fms (656 m), 3 Oct 1906. Paratypes: USNM 332980, 1 ♀, [37 mm], *Albatross* Sta 5044, Pacific Ocean, 42°10'40"N, 142°14'E, 9 ft Agassiz trawl, 309–359 fms (565–656 m), 3 Oct 1906. USNM 332982, 1 ♀, [34 mm], *Albatross* Sta 5050, Pacific Ocean, 38°11'30"N, 142°08'E, 9 ft Albatross-Blake trawl, 266 fms (486 m), 10 Oct 1906. USNM 332983, 1 ♀, [30 mm], *Albatross* Sta 5053, Pacific Ocean, 34°49'20"N, 138°40'15"E, 9 ft Albatross-Blake trawl, 503 fms (919 m), 12 Oct 1906. (Mantle lengths of paratypes originally given as 45, 44, 35 mm, but now cannot be attributed to specific specimens because of shrinkage.)
- globula*, *Cranchia* (*Liocranchia*), Berry, 1909:415–416, fig 9. Holotype: USNM 214315, 1, 20 mm, *Albatross* Sta 3878, Pacific Ocean, Hawaiian Islands, off Maui Island, plankton net, surface, 14 Apr 1902. Paratype: USNM 214608, 1, *Albatross* Sta 4009, Pacific Ocean, 21°51'30"N, 159°15'00"W, plankton net, surface, 17 Jun 1902. (Specimen is no longer extant.) Other paratype is at CAS (CASIZ 520, SSB 282).
- gracilis*, *Octopus*, Verrill, 1884:236. Holotype: USNM 38431, 1 ♀, 11 mm, *Albatross* Sta 2084, Atlantic Ocean, 40°16'50"N, 67°05'15"W, beam trawl, 1290 fms (2358 m), 5 Sep 1883. (Holotype was unique specimen.)
- gracilis*, *Sepiadarium*, Voss, 1962:170–171. Holotype: USNM 575325, 1 ♀, 16 mm, *Albatross* Sta 5290, Pacific Ocean, Philippine Islands, Mindoro Island, Varadero Harbor, anchorage (locality is Varadero Harbor on Mindoro Island, not Verde Island as published), dip net and submerged electric light, surface, 22 Jul 1908. (Holotype was unique specimen.)
- hastula*, *Chiroteuthoides*, Berry, 1920:293–294, pl 16 (fig. 3). Holotype: USNM 338693, 1, 10 mm, *Bache* Sta 10187, Atlantic Ocean, 28°59'N, 69°22'W, plankton net, 200–0 m, 23 Feb 1914. (Holotype was unique specimen.)
- hawaiiensis*, *Ommastrephes*, Berry, 1912a:434. Holotype: USNM 214382, 1, 138 mm, *Albatross* Sta 4117, Pacific Ocean, Hawaiian Islands, off Oahu Island, 10 ft Blake trawl, 282–253 fms (515–462 m), 25 Jul 1902. (No paratypes designated.)
- hawaiiensis*, *Stephanoteuthis*, Berry, 1909:409–410, fig 2. Holotype: USNM 214311, 1 ♀, 22 mm, *Albatross* Sta 3989, Pacific Ocean, Hawaiian

- Islands, off Kauai Island, 8 ft Tanner trawl, 500–385 fms (914–704 m) (depth incorrectly published as 733 fms), 11 Jun 1902. (Holotype was unique specimen. Specimen is no longer extant.)
- heathi*, *Eledonella*, Berry, 1911b:589–590. Holotype: USNM 214318, 1 ♀, 50 mm, *Albatross* Sta 4396, Pacific Ocean, 33°01'35"N, 121°32'W, 8 ft Tanner trawl, 2228 fms (4073 m), 31 Mar 1904. (Holotype was unique specimen.)
- heteropsis*, *Calliteuthis* (*Meleagroteuthis*), Berry, 1913a:75–76. Syntypes: USNM 214620, 1, 59 mm, *Albatross* Sta 4416, Pacific Ocean, United States, off Santa Barbara Island, 9 ft Tanner trawl, 448–323 fms (819–590 m), 12 Apr 1904. (Specimen is no longer extant.) USNM 214624, 1, 51 mm, *Albatross* Sta 4544, Pacific Ocean, United States, off Monterey Bay, 9 ft Tanner trawl, 724–1000 fms (1323–1828 m), 2 Jun 1904. Other syntype with SSB (No. 110).
- hippocrepium*, *Stauroteuthis*, Hoyle, 1904:6–7, pls 1–3. Holotype: USNM 382467, 1, 23 mm, *Albatross* Sta 3374, Pacific Ocean, 2°35'N, 83°53'W, large beam trawl, 1823 fms (3332 m), 3 Mar 1891. (Holotype was unique specimen. Specimen consists of head, arms, and shell vestige.)
- hoylei*, *Polypus*, Berry, 1909:407–408, fig 1. Holotype: USNM 214310, 1 ♂, 65 mm (mantle length = posterior end of mantle to base of umbrella, dorsal side) *Albatross* Sta unknown, Pacific Ocean, Hawaiian Islands. (Specimen in very poor condition.) Paratypes: USNM 214642, 1 ♀, 54 mm (mantle length = posterior end of mantle to base of umbrella, dorsal side) *Albatross* Sta 4132, Pacific Ocean, Hawaiian Islands, off Kauai Island, 8 ft Albatross-Blake trawl, 257–312 fms (470–570 m), 1 Aug 1902. USNM 214647, 1, 41 mm (mantle length = posterior end of mantle to base of umbrella, dorsal side) *Albatross* Sta 4110, Pacific Ocean, Hawaiian Islands, off Molokai Island, 8 ft Tanner trawl, 449–460 fms (821–841 m), 24 Jul 1902. (Paratype is no longer extant.) Other paratype is at CAS (CASIZ 462, 1 ♂).
- iris*, *Stoloteuthis*, Berry, 1909:410–412, fig 3. Holotype: USNM 214312, 1 ♀, 7 mm, *Albatross* Sta 3832, Pacific Ocean, Hawaiian Islands, off Molokai Island, 8 ft Tanner trawl, 153–142 fms (280–260 m), 2 Apr 1902. (Holotype was unique specimen. Specimen is no longer extant.)
- lacertosa*, *Chiroteuthis*, Verrill, 1881a:408–412, pl 56 (fig 1). Holotype: USNM 574637, 1 ♂, 125 mm, Capt. W. Dempsey on schooner *Clara F. Friend*, Atlantic Ocean, Nova Scotia, codfish stomach, Jun 1881. Deposition of (non-NMNH) paratype (*Fish Hawk* Sta 1048) is unknown.
- laciniosa*, *Discoteuthis*, Young and Roper, 1969:9–12, pls 5–9. Holotype: USNM 576215, 1, 70 mm, Ocean Acre Sta 3–3, Atlantic Ocean, 33°04'N, 64°37'W, 10 ft IKMT, 1000 m (est), 4 Jul 1968. Paratypes: USNM 727515, 1, 20 mm, *Dana* Sta 1161 IV, Atlantic Ocean, 14°42'N, 28°04'W, 200 cm Stramin-net, 100 m (est), 5 Sep 1921. USNM 727516, 1 ♂, 35 mm, *Gerda* TOTO Sta, Atlantic Ocean, 23°52'N, 76°46'W, 750 m (est), 20 Feb 1961. Other paratypes are at UZM.
- leioderma*, *Polypus*, Berry, 1911b:590–591. Holotype: USNM 214322, 1 ♀, 45 mm, *Albatross* Sta 4293, Pacific Ocean, United States, Alaska, Shelikof Straight, 8 ft Tanner trawl, 112–106 fms (205–194 m), 15 Aug 1903. (Specimen is no longer extant. No paratype designated.)
- lemur*, *Pyrgopsis*, Berry, 1920:298–299, pl 16 (fig 5). Holotype: USNM 338698, 1, 32 mm, *Bache* Sta 10161, Atlantic Ocean, 35°27'N, 73°14'W, plankton net, surface, 28 Jan 1914. (No paratype designated.)
- lentus*, *Octopus*, Verrill, 1880a:138–139. Holotype: USNM 34223, 1 ♀, 38 mm (VML), Capt. S. Peeples on the schooner *M. H. Perkins*, Atlantic Ocean, Nova Scotia, 120 fms (219 m). (Holotype was unique specimen. Specimen in poor condition.)
- leucoptera*, *Sepiolo*, Verrill, 1878b:378. Syntype: USNM 729735, 1, [6 mm], *Speedwell* Sta 194, Atlantic Ocean, United States, Gulf of Maine, trawl, 110 fms (201 m), 31 Aug 1878. (Deposition of other two, non-NMNH, syntypes is unknown.)
- lucens*, *Abralia* (*Stenabralia*), Voss, 1963b:105–111, figs 22, 23. Holotype: USNM 575449, 1 ♀, 62 mm, *Albatross*, Pacific Ocean, Philippine Islands, Leyte Island, Port Dupan, 6 Apr 1908. (Holotype is no longer extant.) Paratypes are at ANSP (4 ♀).
- lucifer*, *Phasmatopsis*, Voss, 1963a:77–83, figs 1,2. Holotype: USNM 727770, 1 ♀, 95 mm, *Oregon* Sta 3219, Gulf of Mexico, 29°06'N, 88°02'W, 60 ft midwater trawl, 0–275 m, 9 Feb 1961. (Holotype was unique specimen.)
- lugubris*, *Laetmoteuthis*, Berry, 1913b:563. Holotype: USNM 214385, 1, (too mutilated for measurement), *Albatross* Sta 3904, Pacific Ocean, Hawai-

- ian Islands, off Molokai Island, dip net, surface, 30 Apr 1902. Paratype: USNM 214613, 1, (too mutilated for measurement), *Albatross* Sta 3898, Pacific Ocean, Hawaiian Islands, Pailolo Channel, 9 ft Tanner trawl, 258–284 fms (472–519 m), 29 Apr 1902.
- macrohista*, *Histioteuthis*, Voss, 1969:845–852, figs 4a-b, 6f, 8g, 33, 36, 37. Holotype: USNM 576761, 1 ♀, 52 mm, *Eltanin* Sta 1834, Pacific Ocean, 45°10'S, 160°10'E, 10 ft IKMT, 700–780 m, 11 Dec 1966. Paratypes: USNM 576176, 1 ♀, 29 mm, *Eltanin* Sta 1704, Pacific Ocean, 43°50'S, 174°27'W, 10 ft IKMT, 725–800 m, 22 May 1966. USNM 576177, 1 ♂, 23 mm, *Anton Bruun Cr 6* Sta 354A–7340, Indian Ocean, 40°48'S, 65°03'E, 10 ft IKMT, 0–1650 m, 4 Jul 1964. Other paratypes are at RSMAS.
- macrope*, *Cirroteuthis*, Berry, 1911b:589. Holotype: USNM 214317, 1, 58 mm, (mantle length = posterior end of mantle to base of umbrella, dorsal side), *Albatross* Sta 4393, Pacific Ocean, 32°54'20"N, 121°11'15"W, 8 ft Tanner trawl, 2113–2259 fms (3862–4129 m), 30 Mar 1904. (No paratypes designated).
- macrotyla*, *Graneledone*, Voss, 1976:454–457, fig 3. Holotype: USNM 729678, 1 ♀, 34 mm, *Eltanin* Sta 1592, Southern Ocean, 45°43'S, 55°30'W, 10 ft Blake trawl, 1647–2044 m, 14 Mar 1966. (Holotype was unique specimen.)
- maya*, *Octopus*, Voss and Soliz Ramirez, 1966:617–623, figs 1,2. Holotype: USNM 576060, 1 ♂, 115 mm, C. Gutierrez and M. Miss, Gulf of Mexico, Mexico, Campeche, off Lerma, 3 fms (6 m), 12 Aug 1963. Paratypes are at RSMAS and EBPC.
- megalops*, *Abralia*, Verrill, 1882:364. Holotype: USNM 38022, 1, 15 mm, *Fish Hawk* Sta 1137, Atlantic Ocean, 39°40'N, 71°52'W, trawl, 173 fms (316 m), 8 Sep 1882. (Holotype was unique specimen.)
- megalops*, *Benthoteuthis*, Verrill, 1885:402–403, pl 44 (fig 1). Syntypes: USNM 39967, 1 ♀, [47 mm], *Albatross* Sta 2189, Atlantic Ocean, 39°49'30"N, 70°26'00"W, large beam trawl, 600 fms (1097 m), 4 Aug 1884. USNM 39968, 1 ♀, 57 mm, *Albatross* Sta 2205, Atlantic Ocean, 39°35'00"N, 71°18'45"W, large beam trawl, 1073 fms (1961 m), 20 Aug 1884.
- megaptera*, *Ancistrocheirus*, Verrill, 1885:399–400, pl 42 (fig 1). Holotype: USNM 40128, 1, 44 mm, *Albatross* Sta 2235, Atlantic Ocean, 39°12'00"N, 72°03'30"W, large beam trawl, 707 fms (1292 m), 13 Sep 1884. (Holotype was unique specimen. Specimen is no longer extant.)
- megaptera*, *Cirrhoteuthis*, Verrill, 1885:405–408, pl 43 (figs 1,2). Syntypes: USNM 40131, 1, [specimen macerated], *Albatross* Sta 2225, Atlantic Ocean, 36°05'30"N, 69°51'45"W, large beam trawl, 2512 fms (4592 m), 9 Sep 1884. (Figured specimen.) USNM 39963, 1, same station as USNM 40131. (Specimen is no longer extant.) USNM 40127, 1, *Albatross* Sta 2224, Atlantic Ocean, 36°16'30"N, 68°21'00"W, large beam trawl, 2574 fms, (4705 m), 8 Sep 1884. (Specimen in poor condition.) USNM 39916, 1, 13 mm, (VML) *Albatross* Sta 2220, Atlantic Ocean, 39°43'30"N, 69°23'00"W, 1054 fms (1927 m), 23 Aug 1884. (Specimen is no longer extant.)
- microlampas*, *Pterygioteuthis*, Berry, 1913b:566. Holotype: USNM 214386, 1 ♀, 18 mm, *Albatross* Sta 4105, Pacific Ocean, Hawaiian Islands, Kaiwi Channel, 8 ft Tanner trawl, 314–335 fms (574–612 m), 24 Jul 1902. (Holotype is no longer extant. No paratype designated.)
- minor*, *Polypus macropus*, Sasaki, 1920:181–182. Holotype: USNM 332963, 1 ♂, 29 mm, *Albatross* Sta 5074, Pacific Ocean, 34°40'45"N, 138°18'30"E, 9 ft Albatross-Blake trawl, 47 fms (86 m), 16 Oct 1906. Paratype: USNM 577540, 1 ♂, 20 mm, same station as holotype.
- miranda*, *Calliteuthis*, Berry, 1918:221–228, pls 61,62. Neotype (fide Voss, 1969:797–804, figs 24, 25,27): USNM 576165, 1 ♀, 182 mm, *Eltanin* Sta 1713, Pacific Ocean, 37°49'S, 178°50'E, 40 ft otter trawl, 448–732 m, 28 May 1966.
- mollicella*, *Rossia*, Sasaki, 1920:189–190, pl 25 (fig 1). Holotype: USNM 332833, 1 ♂, 36 mm, *Albatross* Sta 4972, Pacific Ocean, 33°25'45"N, 135°33'E, 9 ft Agassiz trawl, 440 fms (804 m), 30 Aug 1906. Paratypes: USNM 332831, 2 ♀, 22–15 mm, *Albatross* Sta 4967, Pacific Ocean, 33°25'10"N, 135°37'20"E, 9 ft Albatross-Blake trawl, 244–253 fms (446–462 m), 29 Aug 1906. USNM 332832, 1 ♀, 12 mm, *Albatross* Sta 5051, Pacific Ocean, 38°11'N, 142°12'E, 9 ft Albatross-Blake trawl, 399 fms (729 m), 10 Oct 1906.
- mollis*, *Alloposus*, Verrill, 1880b:394. Syntypes: USNM 382470, 1 ♂, [60 mm], *Fish Hawk* Sta 880, Atlantic Ocean, 39°48'30"N, 70°54'00"W, trawl,

- 252 fms (461 m), 13 Sep 1880. USNM 574848, 1 ♂, [80 mm], *Fish Hawk* Sta 892, Atlantic Ocean, 39°46'00"N, 71°05'00"W, trawl, 487 fms (890 m), 2 Oct 1880. USNM 729164, 1 ♀, [40 mm], *Fish Hawk* Sta 893, Atlantic Ocean, 39°52'20"N, 70°58'W, beam trawl, 372 fms (680 m), 2 Oct 1880. USNM 729737, 1 ♀, [70 mm], *Fish Hawk* Sta 893, Atlantic Ocean, 39°52'20"N, 70°58'W, beam trawl, 372 fms (680 m), 2 Oct 1880. Deposition of other (non-NMNH) syntypes is unknown (*Fish Hawk* Sta 880 (1 ♂ 1 ♀) and *Fish Hawk* Sta 895 (1)).
- nigra*, *Watasella*, Sasaki, 1920:168, pl 23 (fig 1). Holotype: USNM 332892, 1, 8 mm (VML), *Albatross* Sta 4977, Pacific Ocean, 33°23'N, 135°37'40"E, 9 ft Agassiz trawl, 544 fms (994 m), 31 Aug 1906. (Holotype was unique specimen.)
- nipponicus*, *Nototodarus*, Okutani and Uemura, 1973:39-44, pls 4,5. Paratypes: USNM 727566, 1 ♂, 181 mm, fisherman, Pacific Ocean, Japan, squid-jig, 14 Dec 1972. USNM 737567, 1 ♀, 140 mm, fisherman, Pacific Ocean, Japan, squid-jig, 19 Aug 1972. Holotype (1 ♂) and one paratype are at TRFRL. Other paratypes are at CPFES.
- obesus*, *Octopus*, Verrill, 1880a:137-138. Holotype: USNM 382469, 1 ♂, 49 mm (VML), C. Ruckley on the schooner *H. A. Duncan*, Atlantic Ocean, United States, off Massachusetts, halibut stomach, 160-300 fms (292-548 m), 1879. (Holotype was unique specimen.)
- ochotensis*, *Polyopus*, Sasaki, 1920:174-175. Holotype: USNM 332955, 1 ♀, 49 mm, *Albatross* Sta 5023, Sea of Okhotsk, 48°43'30"N, 145°03'E, 9 ft Agassiz trawl, 75 fms (137 m), 27 Sep 1906. Paratype: USNM 332956, 1 ♂, 22 mm, *Albatross* Sta 5026, Sea of Okhotsk, 48°36'10"N, 145°17'30"E, 9 ft Agassiz trawl, 119 fms (218 m), 28 Sep 1906.
- octopedatus*, *Gonatopsis*, Sasaki, 1920:198-199, pl 26 (fig 5). Holotype: USNM 332918, 1, 65 mm, *Albatross* Sta 5029, Sea of Okhotsk, 48°22'30"N, 145°43'30"E, 9 ft Agassiz trawl, 440 fms (804 m), 28 Sep 1906. (Holotype was unique specimen.)
- ocula*, *Loligo*, Cohen, 1976:330-341, figs 15-24. Holotype: USNM 727093, 1 ♂, 105 mm, *Oregon II* Sta 10858, Atlantic Ocean, 22°59'N, 78°43'W (incorrectly listed as 22°53'N), 40 ft shrimp trawl, 276 m, 15 Dec 1969. Paratypes: USNM 727094, 2 ♂, 80-86 mm, same station as holotype. USNM 727095, 2 ♂, 87-127 mm, *Oregon II* Sta 10859, Atlantic Ocean, 23°04'N, 78°46'W, 40 ft shrimp trawl, 362 m, 15 Dec 1969. USNM 727096, 1 ♀, 89 mm, *Oregon II* Sta 10178, Caribbean Sea, 16°43'N, 81°53'W, 100 ft fish trawl, 256 m, 16 Nov 1968. USNM 727097, 1 ♂, 108 mm, *Oregon II* Sta 10849, Caribbean Sea, 20°50'N, 73°23'W, 40 ft shrimp trawl, 311 m, 13 Dec 1969. USNM 727098, 2 ♂ 3 ♀, 83-100 mm, *Oregon II* Sta 10850, Caribbean Sea, 20°49'N, 73°26'W, 40 ft shrimp trawl, 311 m, 13 Dec 1969.
- onyx*, *Gonatus*, Young, 1972:43-46, pls 13,14,17. Paratype: USNM 727489, 1, 72 mm, *Velero IV* Sta 8112, Pacific Ocean, 33°21'N, 118°44'W, 10 ft IKMT, 767 m, (est) (2300 mwo), 22 Aug 1962. Holotype and other paratypes (8) are at USC, AHF. Holotype is USC, AHF Cephalopod Type 4.
- opalescens*, *Loligo*, Berry, 1911b:591. Paratype: USNM 214388, 1 ♀, 146 mm, shrimp fishermen, Pacific Ocean, United States, Washington, Puget Sound. Holotype is at CAS (CASIZ 547, 1 ♂). Other paratype is with SSB (No. 101, 1 ♂).
- oxygonius*, *Illex*, Roper, Lu, and Mangold, 1969:299-313, pls 1-5, 10. Holotype: USNM 577000, 1 ♂, 207 mm, *Fish Hawk* Sta 7281, Atlantic Ocean, 24°13'N, 81°58'W, 555 m, 14 Feb 1902. Paratypes: USNM 577001, 1 ♂, 160 mm, *VIMS* Sta 167, Atlantic Ocean, 38°27'N, 73°23'W, 27 ft otter trawl, 190 m, 25 Aug 1967. USNM 577002, 1 ♂, 205 mm, *Fish Hawk* Sta 7296, Atlantic Ocean, 24°22'N, 81°48'W, 222 m, 26 Feb 1902. USNM 577003, 1 ♂, 176 mm, *VIMS* Sta 167, Atlantic Ocean, 38°27'N, 73°23'W, 27 ft otter trawl, 190 m, 25 Aug 1967. USNM 577004, 1 ♀, 210 mm, *VIMS* Sta 167, Atlantic Ocean, 38°27'N, 73°23'W, 27 ft otter trawl, 190 m, 25 Aug 1967. USNM 577005, 1 ♂, 135 mm, *Oregon* Sta 6801, Atlantic Ocean, 29°39'30"N, 80°08'30"W, 65 ft shrimp trawl, 210 fms (383 m), 20 Jul 1967. USNM 577006, 1 ♀, 181 mm, *Oregon* Sta 6801, Atlantic Ocean, 29°39'30"N, 80°08'30"W, 65 ft shrimp trawl, 210 fms (383 m), 20 Jul 1967.
- pacifica*, *Calliteuthis celateria*, Voss, 1962:174-175. Holotype: USNM 575453, 1 ♀, 74 mm, *Albatross* Sta 5564, Pacific Ocean, 5°50'00"N, 121°31'00"E, 9 ft Tanner trawl, 236 fms (431 m), 21 Sep 1909. Paratypes: USNM 575457, 2 ♀, 33-52 mm, *Albatross* Sta 5589, Pacific Ocean, 4°12'10"N, 118°38'08"E, 9 ft Tanner trawl, 260 fms (475 m), 29 Sep 1909. USNM 575454, 1 ♀, 51 mm, *Albatross* Sta 5118, Pacific Ocean, 13°48'45"N,

- 120°41'51"E, 12 ft Tanner trawl, 118–159 fms (216–291 m), 21 Jan 1908. One paratype is at RSMAS (*Albatross* Sta 5221, 1♂, incorrectly sexed as ♀).
- pacifica*, *Rossia*, Berry, 1911b:591. Syntypes: USNM 214323, 9, *Albatross* Sta 4233, Pacific Ocean, United States, Alaska, Behm Canal, 8 ft Tanner trawl, 39–45 fms (71–82 m), 8 Jul 1903. (Specimens are no longer extant.) Other syntypes are at CAS (CASIZ 495, 496).
- panamensis* *Euaxoctopus*, Voss, 1971:25–31, figs 5a-c, 6. Holotype: USNM 577620, 1♂, 26 mm, *Pillsbury* Sta 493, Pacific Ocean, 7°39'30"N, 80°00'42"W, 10 ft otter trawl, 37–33 m, 2 May 1967. Paratype: USNM 576454, 1♀, 14 mm, Pacific Ocean, Panama Canal, Teacher Ferry Bridge, canal bottom, 16 Mar 1967. Other paratypes are at RSMAS (*Pillsbury* Sta 593 and 533).
- panamensis*, *Lolliguncula*, Berry, 1911a:100–105, figs 1–7, pl 7. Paratype: USNM 214324, 1♀, Hopkins Expedition, Pacific Ocean, Panama. (Specimen is no longer extant.) Holotype: (CASIZ 537, 1♀) and other paratype (CASIZ 538, 1♀) are at CAS.
- patagiatus*, *Scaeurgus*, Berry, 1913b:564. Holotype: USNM 214379, 1♂, 46 mm (mantle length = posterior end of mantle to base of umbrella, dorsal side), *Albatross* Sta 4079, Pacific Ocean, Hawaiian Islands, off Maui Island, 10 ft Blake trawl, 143–178 fms (261–325 m), 21 Jul 1902. (Specimen is no longer extant. No paratypes designated.)
- pathopsis*, *Sandalops*, Berry, 1920:297, pl 16 (fig 1). Holotype: USNM 338696, 1, 8 mm, *Bache* Sta 10166, Atlantic Ocean, 32°33'N, 72°14'W, plankton net, 1100–0 m, 30 Jan 1914. (No paratypes designated.)
- phenax*, *Euprymna*, Voss, 1962:171. Holotype: USNM 575328, 1♂, 11 mm, *Albatross* Sta 5126, Pacific Ocean, Philippine Islands, Panay, Naso Point (locality is Naso Point, Panay not Nogas Point as published.) dip net and submerged electric light, surface, 3 Feb 1908. (Holotype was unique specimen.)
- philippinensis*, *Nototodarus sloani*, Voss, 1962:175–176. Holotype: USNM 575451, 1♀, 180 mm, *Albatross* Sta 5444, Pacific Ocean, 12°45'51"N, 124°58'50"E, 12 ft Agassiz trawl, 308 fms (563 m), 3 Jun 1909. Paratype: USNM 575452, 1♀, 101 mm, *Albatross* Sta 5135, Pacific Ocean, 6°11'50"N, 121°08'20"E, 12 ft Tanner trawl, 161 fms (294 m), 7 Feb 1908.
- phyllura*, *Galiteuthis*, Berry, 1911b:592. Holotype: USNM 214325, 1, 230 mm, *Albatross* Sta 4529, Pacific Ocean, United States, Monterey Bay, 9 ft Tanner trawl, 780–799 fms (1426–1461 m), 27 May 1904. (Holotype was unique specimen.)
- pillsburyae*, *Euaxoctopus*, Voss, 1975:346–352, figs 1–4. Holotype: USNM 729100, 1♂, 24 mm, *Pillsbury* Sta 662, Atlantic Ocean, 6°49'N, 54°26'30"W, 10 ft try net, 44 m, 10 Jul 1968. Paratypes (3♀) are at RSMAS.
- piscatorum*, *Octopus*, Verrill, 1879:470. Holotype: USNM 574641, 1♀, 30 mm (VML), Capt. John McInnis on schooner *M. H. Perkins*, Atlantic Ocean, Nova Scotia, 120 fms (219 m), Oct 1879. (Holotype was unique specimen.)
- plena*, *Cirrhoteuthis*, Verrill, 1885:404–405, pl 42 (fig 3). Holotype: USNM 39908, 1, 70 mm (mantle length = posterior end of mantle to base of umbrella, dorsal side), *Albatross* Sta 2205, Atlantic Ocean, 39°35'00"N, 71°18'45"W (latitude incorrectly listed as 37°35'N), large beam trawl, 1073 fms (1961 m), 20 Aug 1884. (Holotype was unique specimen. Holotype is in very poor condition.)
- pourtalesii*, *Nectoteuthis*, Verrill, 1883a:108–110, pl 3 (fig 1). Holotype: USNM 729734, 1, 11 mm, *Blake* Sta 295, Caribbean Sea, 13°14'18"N, 59°41'12"W, 180 fms (329 m), 9 Mar 1879. (Holotype was unique specimen.)
- pricei*, *Polypus*, Berry, 1913a:73–75, fig 2. Paratype: USNM 214680, 1, [5 mm], C. H. Gilbert, Pacific Ocean, United States, California, off Point Pinos, salmon stomach, 23 Jun 1911. Holotype (CASIZ 454) and other paratypes (CASIZ 455 and 456) are at CAS.
- prionata*, *Sepia*, Voss, 1962:169–170. Holotype: USNM 575326, 1♀, 61 mm, *Albatross* Sta 5151, Pacific Ocean, 5°24'40"N, 120°27'15"E, 12 ft Agassiz trawl, 24 fms (44 m), 18 Feb 1908. Paratypes: USNM 575327, 2♀, [27–29 mm], same station as holotype. Other paratype is at RSMAS (*Albatross* Sta 5151, 1♀).
- pulchella*, *Pickfordiateuthis*, Voss, 1953:602–609, figs. 1–18. Holotype: USNM 574846, 1♀, 22 mm, C. Phillips, Gulf of Mexico, United States, Florida, Old Rhodes Key, 3 ft (0.9 m), 3 Feb 1950. Paratypes are at RSMAS (1♂ 1♀) and "in G. L. Voss collection" (1♀).

- pustulosus*, *Polypus*, Sasaki, 1920:176, pl 23 (fig 5). (*pustulosus* preoccupied, *P. madokai* proposed by Berry, 1921:353.) Holotype: USNM 332976 (catalog number incorrectly listed in Sasaki, 1920 as USNM 322976), 1 ♀, 80 mm, *Albatross* Sta 5092 Pacific Ocean, 35°04'50"N, 139°38'18"E, 9 ft Albatross-Blake trawl, 70 fms (128 m), 26 Oct 1906. (Holotype was unique specimen.)
- pygmaea*, *Eledonella*, Verrill, 1884:145-146, pl 32 (fig 2). Holotype: USNM 35268, 1 ♂, [17 mm], *Albatross* Sta 2099, Atlantic Ocean, 37°12'20"N, 69°39'00"W, beam trawl, 2949 fms (5391 m), 2 Oct 1883. (Holotype was unique specimen. Specimen in poor condition.)
- pyrodes*, *Mastigoteuthis*, Young, 1972:64-69, pls 25,26. Paratypes: USNM 727462, 2 ♂ 1, 77-94 mm, *Velero IV* Sta 9905, Pacific Ocean, 29°19'N, 119°21'W, 10 ft IKMT, 820 m (2460 mwo), 8 Aug 1964. Holotype and paratypes (5) are at USC, AHF. Holotype is USC, AHF Cephalopod Type 7.
- pyros*, *Gonatus*, Young, 1972:49-51, pls 13,14,17. Paratypes: USNM 727399, 2, 35-38 mm, *Velero IV* Sta 7415, Pacific Ocean, 33°32'N, 118°26'W, 10 ft IKMT, 667 m (est) (2000 mwo), 7 Sep 1961. Holotype and other paratypes (7) are at USC, AHF. Holotype is USC, AHF Cephalopod Type 5.
- rapax*, *Cheloteuthis*, Verrill, 1881a:293-294, pl 49 (fig 1). Holotype: USNM 574639, 1, 78 mm, *Fish Hawk* Sta 893, Atlantic Ocean, 39°52'20"N, 70°58'00"W, fish stomach, 372 fms (598 m), 2 Oct 1880. (Holotype was unique specimen.)
- reesi*, *Doryteuthis*, Voss, 1962:173-174. Holotype: USNM 575323, 1 ♂, 70 mm, *Albatross* Sta 5287, Pacific Ocean, Philippine Islands, Port Maricaban, dip net and submerged electric light, surface, 20 Jul 1908. Paratypes: USNM 575324, 39 ♂ 9 ♀ [45-60 mm], same station as holotype. Other paratypes are at RSMAS (*Albatross* Sta 5287, 4 ♂ 4 ♀).
- reversa*, *Calliteuthis*, Verrill, 1880b:393. Holotype: USNM 574849, 1 ♀, 51 mm, *Fish Hawk* Sta 894, Atlantic Ocean, 39°53'00"N, 70°58'30"W, trawl, 365 fms (667 m), 2 Oct 1880. (Holotype was unique specimen.)
- rhomboidalis*, *Loliolus*, Burgess, 1967:319-329, figs 1-4. Holotype: USNM 576159, 1 ♂, 41 mm, *Anton Bruun* Sta 47B, Indian Ocean, 19°50'N, 92°32'E, plankton net, 22-23 m, 5 Apr 1963. Paratypes are at RSMAS (4 ♂ 2 ♀).
- robustus*, *Ommastrephes*, Verrill, 1876:236-237. Holotype: USNM 576952, 1, 61 inches, W. H. Dall, Pacific Ocean, Aleutian Islands, 1872. Species description based on 3 specimens. Portions of specimen 2 only saved by Dall.)
- roosevelti*, *Octopus*, Stuart, 1941:1-5, figs 1,2. Holotype: USNM 515224, 1 ♂, 180 mm, W. L. Schmitt Sta 25-38, Pacific Ocean, Galapagos Islands, James Island, intertidal, 30 Jul 1938. Paratypes: USNM 515225, 1 ♀, 55 mm, same station as holotype. USNM 577585, 1, 11 mm, W. L. Schmitt Sta 23A-38, Pacific Ocean, Galapagos Islands, South Seymour Island, dip net and electric light, surface, 29 Jul 1938.
- roperi*, *Loligo*, Cohen, 1976:346-353, figs 27-30. Holotype: USNM 727777, 1 ♂, 71 mm, *Geronimo* Sta 8-26, Atlantic Ocean, 25°42'30"N, 79°20'W, night light and dip net, surface, 6 Jun 1966. Paratypes: USNM 727773, 3 ♂ 2 ♀, 44-58 mm, *Choco* Sta 6902-38, Caribbean Sea, 9°03'30"N, 76°28'30"W, 60 ft shrimp trawl, 55 m, 18 May 1969. USNM 727774, 1 ♀, 72 mm, *Oregon II* Sta 10858, Atlantic Ocean, 22°59'N, 78°43'W, 40 ft shrimp trawl, 278 m, 15 Dec 1969. USNM 727775, 3 ♂ 16 ♀, 44-58 mm, *Oregon II* Sta 10187, Caribbean Sea, 14°49'N, 81°39'W, 8 ft tumbler dredge, 48 m, 9 Nov 1968. USNM 727776, 2 ♂, 68-71 mm, same station as holotype. Other paratypes (2 ♂ 1 ♀, 40-45 mm, *Pillsbury* Sta 352) are at RSMAS.
- salebrosus*, *Polypus*, Sasaki, 1920:182-183. Holotype: USNM 332969, 1 ♀, 45mm, *Albatross* Sta 5050, Pacific Ocean, 38°11'30"N, 142°08'E, 9 ft Albatross-Blake trawl, 266 fms (486 m), 10 Oct 1906. Paratype: USNM 332970, 1 ♀, 23 mm, *Albatross* Sta 5029, Pacific Ocean, 48°22'30"N, 145°43'30"E, 9 ft Agassiz trawl, 440 fms (804 m), 28 Sep 1906. (Paratype is no longer extant.)
- scolopes*, *Euprymna*, Berry, 1913b:564-565. Holotype: USNM 214380, 1 ♂, 25 mm, *Albatross* Sta 3905, Pacific Ocean, Hawaiian Islands, off Molokai Island, light and dip net, surface, 30 Apr 1902. Paratype: USNM 727393, 9, [7-15 mm], same station as holotype. Other paratypes are at CAS (CASIZ 497, 498, 499).
- scorpio*, *Polypus*, Berry, 1920:299-300, pl 16 (fig 4). Holotype: USNM 338699, 1, 4 mm (mantle length

- = posterior end of mantle to base of umbrella, dorsal side), *Bache* Sta 10204, Atlantic Ocean, 25°33'N, 80°03'W, plankton net, 75–0 m, 20 Mar 1914. (No paratypes designated.)
- selene*, *Octopus*, Voss, 1971:11–16, fig 1a–i. Holotype: USNM 577617, 1♂, 39 mm, *Pillsbury* Sta 501, Pacific Ocean, 7°50'12"N, 79°50'30"W, 10 ft otter trawl, 68 m, 2 May 1967. Paratypes are at RSMAS (144 specimens).
- skolops*, *Batoteuthis*, Young and Roper, 1968: 185–202, pls 1–6. Holotype: USNM 576029, 1♀?, 51 mm, *Eltanin* Sta 1396, Pacific Ocean, 49°57'S, 169°01'W, 10 ft IKMT, 2525 m, 26 Nov 1964. Paratypes: USNM 577093, 1, 30 mm, *Eltanin* Sta 1314, Pacific Ocean, 59°11'S, 105°04'W, 10 ft IKMT, 366 m, 24 Oct 1964. USNM 577094, 1♀, 95 mm, *Eltanin* Sta 846, Pacific Ocean, 57°52'S, 74°43'W, 10 ft IKMT, 1866 m, 10 Nov 1963. USNM 577095, 1♀, 90 mm, *Eltanin* Sta 382, Atlantic Ocean, 55°23'S, 55°45'W, 10 ft IKMT, 1257 m, 23 Dec 1962.
- spinicauda*, *Enoptroteuthis*, Berry, 1920:295, pl 16 (fig 6). Holotype: USNM 338694, 1, 17 mm, *Bache* Sta 10188, Atlantic Ocean, 28°51'N, 70°08'W, plankton net, 75–0 m, 24 Feb 1914. (Holotype was unique specimen.)
- spinosus*, *Polypus*, Sasaki, 1920:177–178, pl 24 (fig 1). Holotype: USNM 332968, 1♀, 23 mm, *Albatross* Sta 4809, Pacific Ocean, 41°18'N, 140°08'40"E, 12 ft Tanner trawl, 207–90 fms (378–165 m), 16 Jul 1906. (Holotype is no longer extant.) Paratype: USNM 332967, 1♀, 19 mm, *Albatross* Sta 4807, Pacific Ocean, 41°36'12"N, 140°36'E, 12 ft Tanner trawl, 44–47 fms (80–86 m), 16 Jul 1906.
- springeri*, *Oregoniateuthis*, Voss, 1956:120–123, fig 7. Holotype: USNM 575090, 1♂, 80 mm, *Oregon* Sta 382, Gulf of Mexico, 29°11'30"N, 88°07'30"W, 100 ft flat trawl, 190–210 fms (347–384 m), 21 Jun 1951. (Holotype was unique specimen.)
- stictochrus*, *Octopus*, Voss, 1971:19–23, figs 3,4. Holotype: USNM 577619, 1♀, 19 mm, *Pillsbury* Sta 535, Pacific Ocean, 8°38'36"N, 78°51'54"W, 10 ft otter trawl, 31 m, 6 May 1967. Paratype is at RSMAS (*Pillsbury* Sta 492, 1♀).
- sublaevis*, *Rossia*, Verrill, 1878a:209–210. Syntypes: USNM 576701, 2♂, (incorrectly listed as 1♂ 1♀), [9–14 mm], *Speedwell* Sta 85–86, Atlantic Ocean, Canada, off Halifax, 57–100 fms (104–183 m), 6 Sep 1877. (Type series was collected at three *Speedwell* stations; number and deposition of remaining syntypes are unknown.)
- syrtensis*, *Stauroteuthis*, Verrill, 1879:469–470. Holotype: USNM 382471, 1♀ (incorrectly listed as 1♂), [43 mm], Capt. M. Gilpatrick on schooner *Polar Wave*, Atlantic Ocean, 43°54'N, 58°44'W, 250 fms (457 m), Sep 1879. (Holotype was unique specimen. Holotype is in poor condition.)
- tenera*, *Desmoteuthis*, Verrill, 1881a:412–415, pls 55 (fig 2), 56 (fig 3). Syntype: USNM 574850, 1♂, [72 mm], *Fish Hawk* Sta 952, Atlantic Ocean, 39°55'00"N, 70°28'00"W, trawl, 396 fms (724 m), 23 Aug 1881. (Verrill incorrectly listed date as 4 Aug and depth as 388 fms. Deposition of other, non-NMNH, syntype is unknown: 1♂, 116 mm, from same station.)
- tenuipulvinus*, *Polypus*, Sasaki, 1920:182, pl 24 (fig 5). Holotype: USNM 332977, 1♀, 22 mm, *Albatross* Sta 5092, Pacific Ocean, 35°04'50"N, 139°38'18"E, 9 ft Albatross-Blake trawl, 70 fms (128 m), 26 Oct 1906. (Holotype was unique specimen.)
- tortugaensis*, *Rossia* (*Allorossia*), Voss, 1956:103–105, fig 2e–h. Holotype: USNM 575144, 1♂, 41 mm, W. L. Schmitt Sta 52–32, Gulf of Mexico, off Dry Tortugas, 372–375 fms (680–686 m), 18 Jul 1932. Paratype: USNM 575145, 1♀, 34 mm, W. L. Schmitt Sta 20–31, Gulf of Mexico, off Dry Tortugas, 283 fms (517 m), 7 Jul 1931.
- trigonura*, *Abralia*, Berry, 1913b:565–566. Holotype: USNM 214387, 1, 28 mm, *Albatross* Sta 4087, Pacific Ocean, Hawaiian Islands, Pailolo Channel, 10 ft Blake trawl, 308–306 fms (563–559 m), 21 Jul 1902. (Holotype was unique specimen. Specimen is no longer extant.)
- trirostrata*, *Sepiolo*, Voss, 1962:172–173. Holotype: USNM 575329, 1♂, 12 mm, *Albatross* Sta 5126, Pacific Ocean, Philippine Islands, Panay, Naso Point (locality is Naso Point, Panay not Nogas Point as published), dip net and submerged electric light, surface, 3 Feb. 1908. Paratypes: USNM 575330, 2♂ 2♀, 10–12 mm, same station as holotype.
- tsugarensis*, *Polypus*, Sasaki, 1920:175, pl 23 (fig 4). Holotype: USNM 332972, 1♂, 36 mm, *Albatross* Sta 4810, Pacific Ocean, 41°17'20"N, 140°07'E, 12 ft Tanner trawl, 195 fms (356 m), 16 Jul 1906. (Holotype was unique specimen.)

validus, *Polypus*, Sasaki, 1920:183–184, pl 24 (fig 3).

Holotype: USNM 332971, 1 ♂, 45 mm, *Albatross* Sta 4915, East China Sea, 31°31'N, 129°25'30"E, 9 ft Agassiz trawl, 427 fms (781 m), 12 Aug 1906. (Holotype was unique specimen.)

verrucosa, *Eledone*, Verrill, 1881b:105–106, pls 5–6.

Syntypes: USNM 577583, 1 ♀, 100 mm, *Blake* Sta 312, Atlantic Ocean, 39°50'30"N, 70°11'00"W, 466 fms (852 m), 1 Jul 1880. USNM 729732, 1 ♂, 58 mm, *Blake* Sta 305, Atlantic Ocean, 41°33'15"N, 65°51'25"W, 810 fms (1480 m), 28 Jun 1880.

yendoii, *Polypus*, Sasaki, 1920:179–180, pl 24 (fig 2).

Holotype: USNM 332987, 1 ♂, 43 mm (VML), *Albatross* Sta 4855, Sea of Japan, 36°01'30"N, 129°42'E, 9 ft Agassiz trawl, 70–89 fms (128–163 m), 30 Jul 1906. Paratypes: USNM 577268, 5 ♂ 5 ♀, [22–48 mm] (VML), same station as holotype. USNM 332988, 1 ♀, *Albatross* Sta 4858, Sea

of Japan, 36°17'N, 129°40'E, 12 ft Tanner trawl, 67 fms (122 m), 31 Jul 1906. (Specimen is no longer extant.) USNM 332989, 1 ♀, [22 mm] (VML), *Albatross* Sta 4868, Sea of Japan, 36°32'N, 129°45'E, 9 ft Agassiz trawl, 150 fms (274 m), 1 Aug 1906. USNM 332990, 1 ♂ 1 ♀, [24–26 mm] (VML), *Albatross* Sta 4844, Sea of Japan, 36°34'N, 132°50'20"E, 12 ft Tanner trawl, 116 fms (212 m), 26 Jul 1906. USNM 332991, 1 ♂ 1 ♀, [18–25 mm] (VML), *Albatross* Sta 5048 (station number incorrectly listed as 5804), Pacific Ocean, 38°09'24"N, 141°52'30"E, 9 ft Albatross-Blake trawl, 129 fms (236 m), 10 Oct 1906.

zonatus, *Octopus*, Voss, 1968:647–654, figs 1–4.

Holotype: USNM 576513, 1 ♂, 19 mm, *Pillsbury* Sta 402, Caribbean Sea, 8°51'12"N, 77°01'36"W, 10 ft otter trawl, 73 m, 17 Jul 1966. Paratypes are at RSMAS (1 ♂ 3 ♀).

Appendix

List of Species Arranged by Genera

Abralia	megaptera	onyx
astroicta	plena	pyros
lucens (Stenabralia)	Cirroteuthis	Graneledone
megalops	macrope	antarctica
trigonura	Cranchia	macrotyla
Abraliopsis	globula (Liocranchia)	HelioCranchia
falco	Crystalloteuthis	fisheri
felis (Watasenia)	beringiana	Histioteuthis
Alloposus	Desmoteuthis	berryi, corona
mollis	tenera	eltaninae
Ancistrocheirus	Discoteuthis	macrohista
megaptera	discus	Illex
Argonauta	laciniosa	oxygonius
expansa	Doryteuthis	Laetmoteuthis
Bathyteuthis	reesi	lugubris
bacidifera	Eledone	Leachia
berryi	verrucosa	dislocata
Batoteuthis	Eledonella	Leptoteuthis
skolops	heathi	diaphana
Benthoteuthis	pygmaea	Loligo
megalops	Enoploteuthis	diomedea
Brachioteuthis	anapsis	ocula
beanii	spinicauda	opalescens
Calliteuthis	Euaxoctopus	roperi
celateria, pacifica	panamensis	Loliolus
corona	pillsburyae	rhomboidalis
elongata	Euprymna	Lolliguncula
heteropsis (Meleagroteuthis)	albatrossae	panamensis
miranda	phenax	Mastigoteuthis
reversa	scolopes	agassizii
Cheloteuthis	Froekenia	dentata
rapax	clara	pyrodes
Chiroteuthis	Galiteuthis	Nectoteuthis
calyx	phyllura	pourtalesii
famelica	Gonatopsis	Nototodarus
lacertosa	octopedatus	nipponicus
Chiroteuthoides	Gonatus	philippinensis, sloani
hastula	anonychus	Octopoteuthis
Cirrhoteuthis	californiensis	deletron

Octopus
 bairdii
 balboi
 bimaculatus
 bimaculoides
 burryi (Octopus)
 carolinensis
 gracilis
 lentus
 maya
 obesus
 piscatorum
 roosevelti
 selene
 stictochrus
 zonatus
 Ommastrephes
 hawaiiensis
 robustus
 Oregoniateuthis
 springeri
 Phasmatopsis
 lucifer
 Pholidoteuthis
 adami
 Pickfordiateuthis
 pulchella
 Polypus
 abruptus
 alatus
 apollyon
 californicus

gilbertianus
 glaber
 hokkaidensis
 hoylei
 leioderma
 minor, macropus
 madokai
 ochotensis
 pricei
 pustulosus
 salebrosus
 scorpio
 spinosus
 tenuipulvinus
 tsugarensis
 validus
 yendoi
 Pterygioteuthis
 microlampas
 Pyrgopsis
 lemur
 Rossia
 bipapillata
 bullisi (Allorossia)
 equalis (Semirossia)
 mollicella
 pacifica
 diegensis, pacifica
 sublaevis
 tortugaensis (Allorossia)
 Sandalops
 ecthambus

pathopsis
 Sepia
 carinata
 kubiensis, albatrossi
 prionata
 Scaevurgus
 patagiatus
 Sepiadarium
 gracilis
 Sepiola
 leucoptera
 trirostrata
 Stauroteuthis
 albatrossi
 hippocrepium
 syrtensis
 Stephanoteuthis
 hawaiiensis
 Stoloteuthis
 iris
 Teleoteuthis
 agilis (Onychia)
 compacta
 Teuthowenia
 corona (Ascoteuthis)
 Tremoctopus
 gelatus
 Uroteuthis
 bartschi
 Watasella
 nigra

List of Authors of Taxa

Berry, S. S.
 apollyon, Polypus
 astrosticta, Abralia
 californicus, Polypus
 compacta, Teleoteuthis
 corona, Teuthowenia (Ascoteuthis)
 diegensis, Rossia pacifica
 ecthambus, Sandalops
 famelica, Chiroteuthis
 fisheri, Helicocranchia
 gilbertianus, Polypus
 globula, Cranchia (Liocranchia)
 hastula, Chiroteuthoides
 hawaiiensis, Ommastrephes
 hawaiiensis, Stephanoteuthis
 heathi, Eledonella
 heteropsis, Calliteuthis
 (Meleagroteuthis)
 hokkaidensis, Polypus
 hoylei, Polypus
 iris, Stoloteuthis
 leioderma, Polypus
 lemur, Pyrgopsis
 lugubris, Laetmoteuthis

macrope, Cirroteuthis
 madokai, Polypus
 microlampas, Pterygioteuthis
 miranda, Calliteuthis
 opalescens, Loligo
 pacifica, Rossia
 panamensis, Lolliguncula
 patagiatus, Scaevurgus
 pathopsis, Sandalops
 phyllura, Galiteuthis
 pricei, Polypus
 scolopes, Euprymna
 scorpio, Polypus
 spinicauda, Enoptroteuthis
 trigonura, Abralia
 Burgess, L. A.
 rhomboidalis, Loliolus
 Dall, W. H.
 expansa, Argonauta
 Hoyle, W. E.
 clara, Froekenina
 dentata, Mastigoteuthis
 diomedea, Loligo
 hippocrepium, Stauroteuthis

McGowan, J. A., and T. Okutani
 felis, Abraliopsis (Watasenia)
 Okutani, T., and K. Uemura
 nipponicus, Nototodarus
 Percy, W. G., and G. L. Voss
 anonychus, Gonatus
 Pickford, G. E., and B. H.
 McConnaughey
 bimaculoides, Octopus
 Rehder, H. A.
 bartschi, Uroteuthis
 Roper, C. F. E.
 anapsis, Enoplateuthis
 bacidifera, Bathyteuthis
 berryi, Bathyteuthis
 Roper, C. F. E., C. C. Lu, and
 K. Mangold
 oxygenius, Illex
 Sasaki, M.
 abruptus, Polypus
 alatus, Polypus
 albatrossi, Sepia kubiensis
 albatrossi, Stauroteuthis
 beringiana, Crystalloteuthis

- bipapillata, *Rossia*
 carinata, *Sepia*
 glaber, *Polypus*
 minor, *Polypus macropus*
 mollicella, *Rossia*
 nigra, *Watasella*
 ochotensis, *Polypus*
 octopedatus, *Gonatopsis*
 pustulosus, *Polypus*
 salebrosus, *Polypus*
 spinosus, *Polypus*
 tenuipulvinus, *Polypus*
 tsugarensis, *Polypus*
 validus, *Polypus*
 yendoi, *Polypus*
 Stuart, H. G.
 roosevelti, *Octopus*
 Thomas, R. F.
 gelatus, *Tremoctopus*
 Verrill, A. E.
 agassizii, *Mastigoteuthis*
 agilis, *Teleoteuthis (Onychia)*
 bairdii, *Octopus*
 beanii, *Brachioeuthis*
 bimaculatus, *Octopus*
 carolinensis, *Octopus*
 diaphana, *Leptoteuthis*
 gracilis, *Octopus*
 lacerata, *Chiroeuthis*
 lentus, *Octopus*
 leucoptera, *Sepiola*
 megalops, *Abralia*
 megalops, *Benthoteuthis*
 megaptera, *Ancistrocheirus*
 megaptera, *Cirrhoteuthis*
 mollis, *Alloposus*
 obesus, *Octopus*
 piscatorum, *Octopus*
 plena, *Cirrhoteuthis*
 pourtalesii, *Nectoteuthis*
 pygmaea, *Eledonella*
 rapax, *Cheloteuthis*
 reversa, *Calliteuthis*
 robustus, *Ommastrephes*
 sublaevis, *Rossia*
 syrtensis, *Stauroteuthis*
 tenera, *Desmoteuthis*
 verrucosa, *Eledone*
 Voss, G. L.
 adami, *Pholidoteuthis*
 albatrossae, *Euprymna*
 antarctica, *Graneledone*
 balboi, *Octopus*
 bullisi, *Rossia (Allorossia)*
 burryi, *Octopus (Octopus)*
 equalis, *Rossia (Semirossia)*
 gracilis, *Sepiadarium*
 lucens, *Abralia (Stenabralia)*
 lucifer, *Phasmatopsis*
 macrotyla, *Graneledone*
 pacificus, *Calliteuthis celetaria*
 panamensis, *Euaxoctopus*
 phenax, *Euprymna*
 philippinensis, *Nototodarus sloani*
 pillsburyae, *Euaxoctopus*
 prionata, *Sepia*
 pulchella, *Pickfordiateuthis*
 reesi, *Doryteuthis*
 selene, *Octopus*
 springeri, *Oregoniateuthis*
 stictochrus, *Octopus*
 tortugaensis, *Rossia (Allorossia)*
 trirostrata, *Sepiola*
 zonatus, *Octopus*
 Voss, G. L., and M. Soliz Ramirez
 maya, *Octopus*
 Voss, N. A.
 berryi, *Histioteuthis corona*
 eltaninae, *Histioteuthis*
 macrohista, *Histioteuthis*
 Voss, N. A., and G. L. Voss
 corona, *Calliteuthis*
 elongata, *Callietuthis*
 Young, R. E.
 californiensis, *Gonatus*
 calyx, *Chiroeuthis*
 deletron, *Octopoteuthis*
 dislocata, *Leachia*
 falco, *Abraliopsis*
 onyx, *Gonatus*
 pyrodes, *Mastigoteuthis*
 pyros, *Gonatus*
 Young, R. E., and C.F.E. Roper
 discus, *Discoteuthis*
 laciniosa, *Discoteuthis*
 skolops, *Batoteuthis*

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