

A CATALOG OF THE TYPE SPECIMENS OF RECENT CEPHALOPODA  
DESCRIBED BY S. STILLMAN BERRY

Michael J. Sweeney<sup>1</sup>, Clyde F. E. Roper<sup>1</sup> & F. G. Hochberg<sup>2</sup>

ABSTRACT

The primary type specimens of Recent cephalopods described by S. Stillman Berry (1887-1984) have been traced and the museums in which they are deposited verified. Specimen data, collection data and museum catalog numbers are given for all specimens. Specimens known to be no longer extant and those types that could not be located are noted. A bibliography of Berry's cephalopod publications is included.

Key words: cephalopods, type specimens, museum(s), collections.

INTRODUCTION

S. Stillman Berry's contributions to cephalopod systematics rank as the most important of any of the past American teuthologists. Berry studied cephalopods and other mollusks for over 75 years. While publishing 47 papers on cephalopods, he introduced 105 new names, 70 of which were new species. This is a significant contribution to cephalopod systematics for someone never employed for research at an academic institution! Brookshire (1984), Coan (1984) and Roper (1984) provided biographies of S. Stillman Berry, and Sweeney & Roper (1984) listed all zoological taxa described by Berry.

The cephalopod types described by Berry were deposited in several museums as well as his own home, a virtual museum itself. The extent and physical condition of many of the type specimens kept in his home were unknown prior to his death, because during his lifetime he accumulated a huge collection of specimens that eventually occupied nearly every available space in his 17-room house, from cellar to attic and even in his garden shed. While a few types were kept in a small, alligator leather satchel next to the front door ("in case of fire"), most were scattered among the general collection. Curatorial attention to the collections became inconsistent and infrequent as the collections grew and with Berry's generally fragile health. With the bequest of

the Berry cephalopod collection to the National Museum of Natural History, a thorough search for type material produced a number of specimens for which Berry had designated no museum depository.

This paper summarizes the status of Berry's Recent cephalopod type material from his collection as well as from all known museum repositories. The literature was reviewed to determine the number and location of type specimens designated by Berry. The museums that he published as recipients for his types were contacted to verify deposition.

While examining the literature, several problems arose concerning the type status and designation of specimens from Berry's collection. In several cases, paratypes were not listed in the original publication but were in subsequent papers. In other cases, no paratypes were listed in print but specimens were found labeled as such in Berry's handwriting. We were fortunate to have Berry's card catalog that listed specimen data, collecting data, type status and the date of examination for all specimens. Inconsistencies in type status from published vs. specimen information were resolved on an individual basis. Questions concerning interpretations of the International Code of Zoological Nomenclature (ICZN, 1985) were taken to Dr. F. M. Bayer, National Museum of Natural History, who is a U.S. member of the International Commission on Zoological Nomenclature.

<sup>1</sup>Department of Invertebrate Zoology, National Museum of Natural History, Smithsonian Institution, Washington, D.C. 20560, U.S.A.

<sup>2</sup>Department of Invertebrate Zoology, Santa Barbara Museum of Natural History, 2559 Puesta del Sol Road, Santa Barbara, CA 93105, U.S.A.

TABLE 1. Location of extant S.S. Berry cephalopod type material. Abbreviations: H = holotype; P = paratype; S = syntype.

Species, genus	Catalog no.	Type	Not illustrated
<i>A. National Museum of Natural History (NMNH).</i>			
<i>alecto, Octopus</i>	815707	H	*
<i>alecto, Octopus</i>	815708	P	
<i>alecto, Octopus</i>	816381	P	
<i>astrolineata, Abralia</i>	816428	H	
<i>astrosticta, Abralia</i>	214313	H	
<i>australis, Rossia</i>	815719	P	
<i>austrinum, Sepiadarium</i>	816456	P	
<i>californiana, Opisthoteuthis</i>	816426	P	
<i>chiroctes, Lolilopsis</i>	815722	H	
<i>chiroctes, Lolilopsis</i>	815723	P	
<i>compacta, Teleoteuthis</i>	214381	H	
<i>corona, Teuthowenia</i>	338695	H	
<i>driegensis, Rossia pacifica</i>	214376	S	
<i>ecthambus, Sandalops</i>	338697	H	
<i>etheridgei, Loligo</i>	816590	P	
<i>fisheri, Helicocranchia</i>	214316	H	
<i>fitchi, Octopus</i>	815713	H	*
<i>fitchi, Octopus</i>	815715	P	
<i>fitchi, Octopus</i>	816591	P	
<i>fitchi, Octopus</i>	815714	P	
<i>galaxias, Enoplateuthis</i>	816352	P	
<i>galaxias, Enoplateuthis</i>	816355	P	
<i>gilbertianus, Polypus</i>	214320	H	
<i>globula, Cranchia</i>	214315	H	
<i>harrissoni, Moschites</i>	815724	P	
<i>hastula, Chroteuthoides</i>	338693	H	*
<i>hawaiiensis, Ommastrephes</i>	214382	H	
<i>hawaiiensis, Stephanoteuthis</i>	214311	H	
<i>heathi, Eledonella</i>	214318	H	
<i>hedleyi, Sepia</i>	815720	P	
<i>hoylei, Polypus</i>	214310	H	*
<i>hubbsorum, Octopus</i>	816360	H	
<i>hubbsorum, Octopus</i>	816480	P	
<i>hubbsorum, Octopus</i>	816400	P	
<i>kermadecensis, Polypus</i>	816461	H	
<i>lemur, Pyrgopsis</i>	338698	H	
<i>lugubris, Laetmoteuthis</i>	214385	H	
<i>macrope, Cirroteuthis</i>	214317	H	
<i>micropyrsus, Octopus</i>	815704	H	*
<i>micropyrsus, Octopus</i>	815706	P	
<i>micropyrsus, Octopus</i>	815705	P	
<i>nipponianum, Sepiadarium</i>	816462	H	
<i>nipponianum, Sepiadarium</i>	816359	P	
<i>oliveri, Polypus</i>	816455	H	
<i>opalescens, Loligo</i>	214388	P	
<i>opalescens, Loligo</i>	816384	P	
<i>pardus, Megalocranchia</i>	816465	H	
<i>pathopsis, Sandalops</i>	338696	H	
<i>pathopsis, Sandalops</i>	729182	P	
<i>penicillifer, Octopus</i>	815717	H	*
<i>persephone, Opisthoteuthis</i>	816361	P	
<i>phyllura, Galiteuthis</i>	214325	H	
<i>pluto, Opisthoteuthis</i>	815718	P	
<i>pricei, Polypus</i>	214680	P	
<i>regalis, Nematolampas</i>	815721	H	
<i>regalis, Nematolampas</i>	816592	P	
<i>rubescens, Octopus</i>	815709	H	*

TABLE 1 (Continued).

Species, genus	Catalog no.	Type	Not illustrated
A. National Museum of Natural History (NMNH) (Continued).			
<i>rubescens</i> , <i>Octopus</i>	815710	P	
<i>rubescens</i> , <i>Octopus</i>	815711	P	
<i>rubescens</i> , <i>Octopus</i>	815712	P	
<i>scintillans</i> , <i>Abraliopsis</i>	816498	P	
<i>scolopes</i> , <i>Euprymna</i>	214380	H	
<i>scolopes</i> , <i>Euprymna</i>	727393	P	
<i>scorpio</i> , <i>Polypus</i>	338699	H	
<i>spinicauda</i> , <i>Enoproteuthis</i>	338694	H	
<i>veligero</i> , <i>Octopus</i>	815716	H	*
<i>veligero</i> , <i>Octopus</i>	816432	P	
B. California Academy of Sciences (CASIZ).			
<i>apollyon</i> , <i>Polypus</i>	021808	P	
<i>californiana</i> , <i>Opisthoteuthis</i>	021666	H	
<i>californicus</i> , <i>Polypus</i>	017971	P	*
<i>diegensis</i> , <i>Rossia pacifica</i>	021807	S	
<i>formosana</i> , <i>Sepia</i>	021668	H	
<i>gilbertianus</i> , <i>Polypus</i>	021806	P	
<i>globula</i> , <i>Cranchia</i>	017978	P	
<i>heteropsis</i> , <i>Calliteuthis</i>	029130	P	
<i>magister</i> , <i>Gonatus</i>	017965	H	
<i>nipponensis</i> , <i>Stoloteuthis</i>	017976	H	
<i>oliveri</i> , <i>Polypus</i>	021805	P	
<i>opalescens</i> , <i>Loligo</i>	017970	H	
<i>pacifica</i> , <i>Rossia</i>	018796	P	
<i>panamensis</i> , <i>Lolliguncula</i>	017968	H	
<i>panamensis</i> , <i>Lolliguncula</i>	017969	P	
<i>pricei</i> , <i>Polypus</i>	017966	H	
<i>pricei</i> , <i>Polypus</i>	017967	P	
<i>scintillans</i> , <i>Abraliopsis</i>	021667	H	
<i>scolopes</i> , <i>Euprymna</i>	017975	P	
C. Australian Museum Sydney (AMS).			
<i>adelieana</i> , <i>Moschites</i>	C40889	H	
<i>albida</i> , <i>Moschites</i>	C40888	H	
<i>aurorae</i> , <i>Moschites</i>	C40891	H	
<i>australis</i> , <i>Rossia</i>	C148246	H	
<i>dannevigii</i> , <i>Sepia</i>	C148249	H	
<i>etheridgei</i> , <i>Loligo</i>	C148250	H	
<i>galaxias</i> , <i>Enoplateuthis</i>	C148251	H	
<i>harrissoni</i> , <i>Moschites</i>	C40892	H	
<i>harrissoni</i> , <i>Moschites</i>	C40893	P	
<i>hedleyi</i> , <i>Sepia</i>	C148252	H	
<i>mawsoni</i> , <i>Stauroteuthis</i>	C40886	H	
<i>persephone</i> , <i>Opisthoteuthis</i>	C148253	H	
D. South Australian Museum (SAM).			
<i>austrinum</i> , <i>Sepiadarium</i>	D17493	H	*
<i>austrinum</i> , <i>Sepiadarium</i>	D17494	P	
<i>nipponianum</i> , <i>Sepiadarium</i>	D17496	P	
<i>notoides</i> , <i>Idiosepius</i>	D17495	H	
E. San Diego Natural History Museum (SDNHM).			
<i>chiroctes</i> , <i>Loliolopsis</i>	49460	P	

The key portion of the Code required to resolve the paratype question was Art. 74(b)(i) pertaining to the type series. In a situation where Berry published a new species and listed several specimens, one of which he designated type (holotype), the fact that he gave the remaining specimens no type status excludes them from the type series and therefore they cannot be listed as paratypes, even though they may have been examined along with the original material at the time of description. In most species descriptions both holotype and paratype (often listed as type and cotype) were designated clearly. An exception to this is where Berry listed a paratype in a subsequent, but not in the original, publication. The fact that a specimen bears a label in Berry's handwriting identifying it as a paratype *and* that his card catalog shows that the specimen was used in the species description (examination date, illustration notes, etc.) meets the requirements for the Code's definition of type series (Art. 72(a)(i)&(v)). A specimen (not designated in print at any time as a type specimen) found labeled as a paratype *and* shown to be used in the original description (supported by his card catalog) is justified in the Code in the same manner. This interpretation of the new code has changed the status of several Berry specimens published previously as types in Smith (1974), Roper & Sweeney (1978) and Zeidler (1983). These changes are noted under the pertinent species.

The format for the presentation of data for type-specimens is similar to that used in Roper & Sweeney (1978) as follows: Species, genus, author, year of publication. Publication citation for that species. Category(ies) of type(s), number and sex of specimens, dorsal mantle length in mm, reference to original illustration(s) of type(s), S. Stillman Berry catalog number (e.g., SSB 438), depository catalog number, collector (ship or person) and station number, locality (latitude and longitude or descriptive location, occasionally with compass bearing and distance in nautical miles (')), sampling gear, depth collected (in original unit and converted to m), date collected. Comments.

Berry's published mantle lengths for octopods were measured as "length of body to base of dorsal arms." Therefore, his measurements are not equivalent to the currently defined octopod mantle length as given in Roper & Voss (1983). Where mantle length or sex of specimens were not indicated in print by Berry,

we have determined sex and measured the specimen as defined by Roper & Voss (1983). Specimens that are too immature to distinguish sex are listed as juveniles (juv.). These recently determined, additional elements of data are designated by an asterisk (\*).

Several phrases are used repeatedly throughout this catalog and require definition:

A. "Specimen is no longer extant." Where type specimens originally deposited at the NMNH are known to have been lost through desiccation or have not been located. Unfortunately, some of Berry's "Albatross" types were among material lost during the long period (early 20th century until 1962) when the molluscan collections preserved in alcohol were housed apart from the shelled (dry) molluscs. Also tragically, approximately 30% of the cephalopod type specimens retained at home by Berry were found to have dried out. An attempt has been made to reconstitute these specimens using a commercial wetting/penetrating agent, and in general some softening of the specimens has been achieved.

B. "Specimen was unique." Only one specimen was available at the time of the species description.

C. "No paratypes designated." No paratypes were designated from material on hand at the time of the species description in the original publication. In several instances, e.g. *Polypus californicus* and *Loligo opalescens*, Berry did not list a paratype in the original publication but did so in a subsequent paper. Specimen and collecting information given in the subsequent publication *plus* data from his specimen card catalog verifies that he had the specimen in question at hand and used it in the description of the species. Prior to approximately 1915 Berry used the designation "cotype" to indicate what we now term a paratype.

D. "Location of specimens unknown." In several cases, the museum that Berry selected for deposition of a type specimen is known, but the museum representative we contacted has been unable to locate and verify the specimen. In these instances we have used this phrase followed by the name of the author who cited the collection involved.

E. "Deposition of specimen unknown." Several type specimens were published with no museum deposition, nor were they located in any of the museums that contain Berry cephalopod type material.

Table 1 lists all of Berry's extant cepha-

lopod types that we were able to locate and the museums in which they are deposited. Those species that have not been illustrated are noted. A number of the octopod species described by Berry in his journal, *Leaflets in Malacology*, were not illustrated. These are being illustrated in a review of the octopods of the eastern North Pacific by F. G. Hochberg.

The California Academy of Sciences recently changed to a 6-digit catalog numbering system for all its holdings (Dunn, 1981). Berry's types deposited at CAS were listed by Smith (1974) under the original 3-digit catalog numbers; these are indicated here in brackets for ease of tracing specimens.

Abbreviations used for institutions that are depositories of Berry's cephalopod types are as follows:

AMS—Department of Malacology, Australian Museum, 6-8 College Street, Sydney, N.S.W., Australia 2000. CASIZ—Department of Invertebrate Zoology, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118, U.S.A. SAM—Department of Marine Invertebrates, South Australian Museum, Adelaide, S.A., Australia 5000. SDNHM—Department of Marine Invertebrates, San Diego Natural History Museum, Balboa Park, San Diego, CA 92112, U.S.A. USNM—Division of Mollusks, National Museum of Natural History, Smithsonian Institution, Washington, DC 20560, U.S.A.

#### ACKNOWLEDGMENTS

We are most grateful to the following for their assistance: Paul Scott, Santa Barbara Museum of Natural History; Carole Hertz, San Diego Natural History Museum; Terry Gosliner, Daphne Fautin and Robert Van Syoc, California Academy of Sciences; William Rudman and Ian Loch, Australian Museum, Sydney; Wolfgang Zeidler, South Australian Museum; C. C. Lu, Museum of Victoria, Melbourne. Special thanks go to F. M. Bayer, National Museum of Natural History, for the several, lengthy discussions on nomenclature and interpretation of the Code.

#### LITERATURE CITED

BROOKSHIRE, J. W., 1984, Dr. S. Stillman Berry, 1887–1984. *Shells and Seaside*, 16(5): 58–59.  
COAN, E., 1984, S. Stillman Berry, 1887–1984. *Veliger*, 27(1): 99.

DUNN, D. F., 1981, Recent changes in the Department of Invertebrate Zoology, California Academy of Sciences. *Veliger*, 23(4): 373–374.  
HERTZ, C. M., 1984, Illustrations of the types named by S. Stillman Berry in his "Leaflets in Malacology." *Festivus*, 15 (Supplement): 1–42.  
ICZN, 1985, *International Code of Zoological Nomenclature*. Ed. 3. Adopted by the 20th General Assembly of the International Union of Biological Sciences. University of California Press, Berkeley, CA, 338 p.  
ROPER, C. F. E., 1984, S. Stillman Berry (1887–1984): a tribute through glimpses and reflections. *American Malacological Bulletin*, 3(1): 55–61.  
ROPER, C. F. E. & SWEENEY, M. J., 1978, A catalog of the type-specimens of Recent Cephalopoda in the National Museum of Natural History. *Smithsonian Contributions to Zoology*, 278: 1–19.  
ROPER, C. F. E. & VOSS, G. L., 1983, Guidelines for taxonomic descriptions of cephalopod species. *Memoirs of the National Museum of Victoria*, 44: 48–63.  
RUDMAN, W. B., 1983, The cephalopod collections of the Australian Museum. *Memoirs of the National Museum of Victoria*, 44: 67–70.  
SMITH, A. G., 1974, Type and other cephalopods in the collection of the Department of Invertebrate Zoology, California Academy of Sciences. *Veliger*, 16(3): 319–333.  
SWEENEY, M. J. & ROPER, C. F. E., 1984, The zoological taxa and bibliography of S. Stillman Berry. *American Malacological Bulletin*, 3(1): 63–82.  
VOSS, N. A., 1969, A monograph of the Cephalopoda of the North Atlantic. The family Histioteuthidae. *Bulletin of Marine Science*, 19(4): 713–867.  
ZEIDLER, W., 1983, The cephalopod collection in the South Australian Museum. *Memoirs of the National Museum of Victoria*, 44: 77–79.

#### CEPHALOPOD TYPE SPECIMENS OF S. S. BERRY

*adelieana*, *Moschites* Berry, 1917. *Sci. Rep. Australasian Ant. Exped.*, C4(2): 17–20. HOLOTYPE: 1♀, 38 mm, text figs. 10–13, pl. 11 fig. 5, pl. 12 figs. 6 and 7, SSB 438, AMS C40889, "Aurora" sta. 2, Antarctic Ocean, Adelie Land, off Mertz Glacier, 66°55'S 145°21'E, trawl, 288–300 fm (526–548 m), 28 December 1913. No paratypes designated.  
*albida*, *Moschites* Berry, 1917. *Sci. Rep. Australasian Ant. Exped.*, C4(2): 15–17. HOLOTYPE: 1♀, 45 mm, text figs. 6–9, pl. 10 figs. 2 and 3, pl. 11 fig. 4, SSB 436, AMS C40888, "Aurora" sta. 5, Antarctic Ocean, off Wilkes' Land, 64°34'S 127°17'E, trawl, 1700 fm (3107 m), 14 January 1914. Specimen was unique.

- alecto*, *Octopus* Berry, 1953. *Leaf. Malac.*, 1(10): 56–57. HOLOTYPE: 1♂, 14 mm, SSB 896, USNM 815707, B. W. Walker *et al.* sta. W52-12, Pacific Ocean, Mexico, Sonora, S of Estero Soldado, 27 January 1952. PARATYPE: 1♀, 22\* mm, SSB 922, USNM 815708, from same lot as holotype. PARATYPE: 1♂, 9\* mm, SSB 924, USNM 816381, B. W. Walker *et al.* sta. W52-14, from same locality as holotype, 28 January 1952. Specimen has dried and is in very poor condition. This species has not been figured.
- apollyon*, *Polypus* Berry, 1912. *Bull. Bur. Fish.*, 30(1910): 284. HOLOTYPE: 1♂, 81 mm, pl. 35 fig. 3, pl. 36 fig. 1, pl. 39 fig. 4, SSB 142, USNM 214319, "Albatross", Pacific Ocean, Alaska, Kadiak Island (misspelling of Kodiak), Uyak Bay, seine, 14 August 1903. Specimen is no longer extant. PARATYPE: 1♀, 76 mm, SSB 145, CASIZ 021808 [461], from same lot as holotype. Specimen was designated as a "cotype" by Berry both in his card catalog and on the specimen label at the time of the species description.
- astrolineata*, *Abralia* Berry, 1914. *Trans. N.Z. Inst.*, 46: 145–148. HOLOTYPE: 1♀, 34 mm, pl. 10, SSB 408, USNM 816428, R. S. Bell, Pacific Ocean, Kermadec Islands, Sunday Island, on beach. Specimen has dried and is in poor condition. Specimen was unique.
- astrosticta*, *Abralia* Berry, 1909. *Proc. U.S. Natl. Mus.*, 37(1713): 412–414. HOLOTYPE: 1♀, 34 mm, figs. 4–7, SSB 171, USNM 214313, "Albatross" sta. 4122, Pacific Ocean, Hawaii, off Oahu Island, 8 ft Blake trawl, 192–352 fm (350–643 m), 26 July 1902. Unique specimen has dried and is in very poor condition.
- aurorae*, *Moschites* Berry, 1917. *Sci. Rep. Australasian Ant. Exped.*, C4(2): 20–24. HOLOTYPE: 1♂, 36 mm, text figs. 14–20, pl. 12 fig. 9, pl. 13 figs. 1 and 2, SSB 437, AMS C40891, "Aurora" sta. 8, Antarctic Ocean, 66°08'S 94°17'E, dredge, 120 fm (219 m), 27 January 1914. No paratypes designated.
- australis*, *Rossia* (*Austrorossia*) Berry, 1918. *Biol. Res. Fish. Exp. "Endeavour"*, 4(5): 253–258. HOLOTYPE: 1♂, 32 mm, text fig. 43, pl. 69 figs. 3 and 4, pl. 70 figs. 2 and 5. SSB 538, AMS C148246, "Endeavour" E3636, Indian Ocean, Western Australia, Great Australian Bight, south of Eucla, —°S 130°50'E, 250–300 fm (457–548 m), 6 May 1913 (date from AMS Register Book). PARATYPE: 1♀, 50 mm, SSB 537, USNM 815719, "Endeavour" E3635, from same lot as holotype. PARATYPE: 1♀, 50 mm, text figs. 44–46, pl. 70 fig. 1, SSB 539, "Endeavour" E3637, from same lot as holotype. Location of specimen unknown; not listed by Rudman (1983) in AMS collections.
- austrinum*, *Sepiadarium* Berry, 1921. *Rec. S. Aust. Mus.*, 1(4): 354–355. HOLOTYPE: 1♂, 12 mm, SSB 716, SAM D17493, A. Zietz, South Australia, St. Vincent's Gulf, dredge, September 1885. PARATYPE: 1♂, 133 mm, SSB 717, USNM 816456, from same lot as holotype. PARATYPE: 1♀, 17 mm, SSB 718, SAM D17494, from same lot as holotype. SAM type material not located by Zeidler (1983); recently found in Berry collection and returned to SAM. Specimen was designated as a paratype by Berry both in his card catalog and on the specimen label at the time of the species description. This species has not been figured.
- californiana*, *Opisthoteuthis* Berry, 1949. *Leaf. Malac.*, 1(6): 23–26. HOLOTYPE: 1♀, 295 mm (total length), SSB 858, CASIZ 021666 [548], "M/V Andrew Jackson" (Capt. N. Franklin), Pacific Ocean, California, Humboldt County, NW by E of Eureka Bar, trawl, 188 fm (343 m), 25 April 1948. Illustrated in Berry, 1952, figs. 1–4. PARATYPE: 1♀, 340 mm (total length), SSB 859, USNM 816426, from same lot as holotype. Photograph in Berry, 1952, fig. 5.
- californicus*, *Polypus* Berry, 1911. *Proc. U.S. Natl. Mus.*, 40(1838): 590. HOLOTYPE: 1♂, 89 mm, SSB 131, USNM 214321a, "Albatross" sta. 4325, Pacific Ocean, California, San Diego County, Point La Jolla, off Soledad Hill, SE, 4.4 mi, 9 ft Tanner trawl, 275–292 fm (502–533 m), 8 March 1904. Specimen is no longer extant. PARATYPE: 1♂, SSB 131, USNM 214321b, from same lot as holotype. Specimen is no longer extant. PARATYPE: 1♂, 77\* mm, SSB 131, CASIZ 017971 [460], from same lot as holotype. Paratypes designated by Berry, 1912c: 287. Original label on CASIZ lot and Berry's card catalog list this specimen as a "cotype." This species has not been figured.
- chiroctes*, *Loliolopsis* Berry, 1929. *Trans. S.D. Soc. Nat. Hist.*, 5(18): 267–278. HOLOTYPE: 1♂, 50 mm, pl. 32 fig. 1, SSB 851, USNM 815722, T. Craig, Pacific Ocean, Mexico, Baja California Sur, Puerto Escondido, entrance to inner bay, dipnet and night light, surface, 4 March 1928. PARATYPES: 3♂, 2♀, 45–61 mm, text figs. 1–9, pl. 32 fig. 2, pl. 33 figs. 3, 5 and 6, SSB 852, USNM 815723, from same lot as holotype. PARATYPES: 1♂, 1♀, 46 and 55 mm, pl. 33 figs. 1, 2, and 4, SSB 853, SDNHM 49460, from same lot as holotype.
- chirotrema*, *Sepia* Berry, 1918. *Biol. Res. Fish. Exp. "Endeavour"*, 4(5): 268–276. HOLOTYPE: 1♂, 183 mm, pl. 74 figs. 6–9, pls. 75 and 76, SSB 522, "Endeavour" E2459, Indian Ocean, South Australia, S of Kangaroo Island, January/February 1912. Specimen is no longer extant in AMS collections according to Rudman (1983). PARATYPE: 1♀, 150 mm, text figs. 60 and 61, SSB 523, "Endeavour" E2460, from same lot as holotype. Specimen is no longer extant in AMS collections according to Rudman (1983). Additional specimens (E2454, E3621, E3622) listed in Rudman (1983) as paratypes are actually "additional material."
- compacta*, *Teleoteuthis* Berry, 1913. *Proc. U.S. Natl. Mus.*, 45(1996): 565. HOLOTYPE: 1♀?, 21 mm, SSB 238, USNM 214381, "Albatross" sta. 3989, Pacific Ocean, Hawaii, off Kauai Island,

- Hanamaula warehouse, S 33°, W 9.5', 8 ft Tanner trawl, 385–500 fm (703–914 m), 11 June 1902. Specimen is unique, has dried and is in very poor condition, with only a portion remaining. Illustrated in Berry, 1914c, text fig. 32, pl. 52 figs. 4 and 5. No paratypes designated.
- corona*, *Teuthowenia (Ascoteuthis)* Berry, 1920. *Proc. U.S. Natl. Mus.*, 58(2335): 296. HOLOTYPE: 1 juv., 27 mm, pl. 16 fig. 7, SSB 618, USNM 338695, "Bache" sta. 10173, Atlantic Ocean, W of Bermuda, 32°27'N 68°22'W, plankton net, 0–100 m, 4 February 1914. Specimen has dried and is in poor condition. No paratypes designated.
- dannevigi*, *Sepia* Berry, 1918. *Biol. Res. Fish. Exp. "Endeavour"*, 4(5): 264–268. HOLOTYPE: 1 ♀, 82 mm, text figs. 51, 52, 54 and 55, pl. 73, pl. 74 figs. 1 and 2, SSB 493, AMS C148249, "Endeavour" E2466, Indian Ocean, South Australia, S of Kangaroo Island, area S of Investigator Strait, January/February 1912. PARATYPE: 1 ♀, 74 mm, SSB 492, AMS C148248, "Endeavour" E2465, same locality as holotype, date unknown. Location of specimen is unknown; not listed by Rudman (1983) in AMS collections.
- diegensis*, *Rossia pacifica* Berry, 1912. *Bull. Bur. Fish.*, 30(1910): 293. SYNTYPES: 1 ♂, 6 ♀, 12–31 mm, pl. 42 figs. 2–5, SSB 19, USNM 214376, "Albatross" sta. 4356, Pacific Ocean, California, San Diego County, Point Loma lighthouse, N 82°30' E, 5.9 mi, 8 ft Tanner trawl, 120–131 fm (219–239 m), 15 March 1904. SYNTYPES: 1 ♂, 1 ♀, 24 and 29 mm, pl. 42, SSB 19, CASIZ 021807 [457 & 458], from same lot as other syntypes. In Berry's card catalog 2 specimens from the type series (SSB 19) are identified as "cotypes" (1 ♂, 1 ♀, 23 and 32.5 mm). These would normally be designated as paratypes. However, in light of errors of record and the failure to designate a holotype we are applying a syntype designation to the entire lot.
- ecthambus*, *Sandalops* Berry, 1920. *Proc. U.S. Natl. Mus.*, 58(2335): 297–298. HOLOTYPE: 1 juv., 22 mm, pl. 16 fig. 2, SSB 627, USNM 338697, "Bache" sta. 10208, Atlantic Ocean, off Florida, 27°46'N 78°46'W, plankton net, 0–100 m, 21 March 1914. Specimen was unique.
- etheridgei*, *Loligo* Berry, 1918. *Biol. Res. Fish. Exp. "Endeavour"*, 4(5): 243–249. HOLOTYPE: 1 ♂, 132 mm, text figs. 29, 30, 33, 34 and 38, pls. 67 and 68, pl. 69 figs. 1 and 2, SSB 489, AMS C148250, "Endeavour" E6068, "Australian Seas (?S.E.)," date unknown. PARATYPE: 1 ♂, 143 mm, text-figs. 28, 31, 32, 35–37, SSB 490, USNM 816590, from same lot as holotype.
- famelica*, *Chiroteuthis* Berry, 1909. *Proc. U.S. Natl. Mus.*, 37(1713): 414–415. HOLOTYPE: 1 sex undetermined, 39 mm, fig. 8, SSB 260, USNM 214314, "Albatross" sta. 3989, Pacific Ocean, Hawaii, off Kauai Island, Hanamaula warehouse, S33°, W 9.5', 8 ft Tanner trawl, 385–500 fm (703–914 m), 11 June 1902. Unique specimen is no longer extant.
- fisheri*, *Helicocranchia* Berry, 1909. *Proc. U.S. Natl. Mus.*, 37(1713): 417. HOLOTYPE: 1 sex undetermined, 47 mm, SSB 106, USNM 214316, "Albatross" sta. 3883, Pacific Ocean, Hawaii, off Maui Island, Mokuhooniki Islet, S 80°30', W 7.8', 9 ft Tanner trawl, 277–284 fm (506–519 m), 16 April 1902. Illustrated in Berry, 1914c, pl. 53 figs. 5 and 6, pl. 55 fig. 2. Specimen was unique.
- fitchi*, *Octopus* Berry, 1953. *Leaf Malac.*, 1(10): 54–55. HOLOTYPE: 1 ♂, 22 mm, SSB 887, USNM 815713, J. E. Fitch, Pacific Ocean, Mexico, Gulf of California, Baja California Norte, Punta San Felipe, under cobbles, intertidal, 12 December 1951. Specimen has dried and is in poor condition. PARATYPES: 5 ♂, 2 ♀, 21–30 mm, SSB 888, USNM 815715, from same lot as holotype. PARATYPES: 6 ♂, 15 ♀, ML measurements not possible, SSB 889, USNM 816591, from same lot as holotype. Listed as uncataloged in Hertz (1984). Specimens are macerated, dried, and in very poor condition. PARATYPES: 1 ♂, 1 ♀, 9 and 14 mm, SSB 895, USNM 815714, S. S. Berry & J. E. Fitch, from same locality as holotype, 2 April 1953. Specimens have dried and are in poor condition. Female with eggs on substrate. PARATYPE: 1 ♂, SSB 999, from same lot as holotype. Deposition of specimen is unknown; not found in Berry collection. This species has not been figured.
- formosana*, *Sepia* Berry, 1912. *Proc. Acad. Nat. Sci. Phila.*, 64: 420–422. HOLOTYPE: 1 ♂, 72 mm, pl. 9, SSB 361, CASIZ 021668 [465], H. Sauter, Pacific Ocean, Formosa (Taiwan), Takao fishmarket, 12 January 1907. Specimen was unique.
- galaxias*, *Enoploteuthis* Berry, 1918. *Biol. Res. Fish. Exp. "Endeavour"*, 4(5): 211–221. HOLOTYPE: 1 ♀, 72 mm, text fig. 2, pl. 59, pl. 60 figs. 1 and 3, SSB 543, AMS C148251, "Endeavour" E5723, Australia, Tasman Sea, Victoria, Gabo Island to Everard Grounds, 200–250 fm (365–457 m), October 1914. PARATYPE: 1 ♂, 73 mm, pl. 60 figs. 2, 4 and 5, SSB 544, USNM 816352, from same lot as holotype. PARATYPE: 1 ♀, 78 mm, text-figs. 1–4, pl. 60 figs. 6 and 7, SSB 462, USNM 816355, from same lot as holotype. Specimen dissected completely by Berry.
- gilbertianus*, *Polypus* Berry, 1912. *Bull. Bur. Fish.*, 30(1910): 284–286. HOLOTYPE: 1 ♂, 65 mm, pl. 35 figs. 4 and 5, pl. 36 fig. 2, pl. 37, SSB 139, USNM 214320, "Albatross" sta. 4228, Pacific Ocean, Alaska, vicinity of Naha Bay, Behm Canal, Indian Point, N 18°E, 0.9 mi, 8 ft Tanner trawl, 41–134 fm (74–244 m), 7 July 1903. PARATYPE: 1 ♂, 79 mm, SSB 140, CASIZ 021806 [510], "Albatross" sta. 4253, Pacific Ocean, Alaska, Alexander Archipelago, Stephens Passage, Thistle Ledge, N 53°E, 1.7 mi, 8 ft Tanner trawl, 131–188 fm (239–343 m), 14 July 1903.

- globula*, *Cranchia* (*Liocranchia*) Berry, 1909. *Proc. U.S. Natl. Mus.*, 37(1713): 415–416. HOLOTYPE: 1 juv., 20 mm, fig. 9, SSB 262, USNM 214315, "Albatross" sta. 3878, Pacific Ocean, Hawaii, S of Lanai Island, Molokini Islet, N 81°, E 51.2', plankton net, surface, 14 April 1902. Specimen has dried and is in poor condition. PARATYPE: 1 juv., 11 mm, SSB 282, CASIZ 017978 [520], from same lot as holotype. Cited as only paratype by Berry, 1914c: 347. A specimen (USNM 214608) was listed incorrectly as a paratype in Roper & Sweeney (1978).
- harrissonia*, *Moschites* Berry, 1917. *Sci. Rep. Australasian Exped.*, C4(2): 24–27. HOLOTYPE: 1 ♀, 70 mm, text figs. 21, 22 and 24, pl. 14 fig. 15, SSB 440 AMS C40892, "Aurora" sta. 10, Antarctic Ocean, off Shackleton Ice Shelf, 65°06'S 96°13'E, trawl, 325 fm (594 m), 29 January 1914 (published date), December 1913 (label date). PARATYPE: 1 ♀, 54 mm, pl. 13 figs. 13 and 14, SSB 442, USNM 815724, "Aurora" sta. 11, Antarctic Ocean, off Shackleton Ice Shelf, 66°44'S 97°28'E, trawl, 358 fm (654 m), 31 January 1914. PARATYPE: 1 ♀, 65\* mm, text-figs. 23 and 25, SSB 441, AMS C40893, C. T. Harrison, Antarctic Ocean, off Shackleton Glacier, "Western Base" Queen Mary Land, trapped, 270 fm (491 m), January 1913. Specimen was designated as a paratype by Berry both in his card catalog and on the specimen label at the time of the species description.
- hastula*, *Chiroteuthoides* Berry, 1920. *Proc. U.S. Natl. Mus.*, 58(2335): 293–294. HOLOTYPE: 1 juv., 10 mm, SSB 637, USNM 338693, "Bache" sta. 10187, Atlantic Ocean, Sargasso Sea, 28°59'N 69°22'W, plankton net, 0–200 m, 23 February 1914. Specimen was unique. This species has not been figured.
- hawaiiensis*, *Ommastrephes* Berry, 1912. *Proc. Acad. Nat. Sci. Phila.*, 64: 434. HOLOTYPE: 1 ♀, 138 mm, SSB 243, USNM 214382, "Albatross" sta. 4117, Pacific Ocean, Hawaii, off Oahu Island, Kahuku Point, S 69°30', E 9.0', 10 ft Blake trawl, 253–282 fm (462–515 m), 25 July 1902. Holotype designated and illustrated in Berry, 1914c: 340, text fig. 38, pl. 54 fig. 2. No paratypes designated.
- hawaiiensis*, *Stephanoteuthis* Berry, 1909. *Proc. U.S. Natl. Mus.*, 37(1713): 409–410. HOLOTYPE: 1 ♀, 22 mm, fig. 2, SSB 30, USNM 214311, "Albatross" sta. 3989, Pacific Ocean, Hawaii, off Kauai Island, Hanamaula warehouse, S 33°, W 9.5', 8 ft Tanner trawl, 385–500 fm (703–914 m), 11 June 1902. Holotype has been found in Berry collection; listed in Roper & Sweeney (1978) as no longer extant. Unique specimen is dried, in pieces, and in very poor condition.
- heathi*, *Eledonella* Berry, 1911. *Proc. U.S. Natl. Mus.*, 40(1838): 589–590. HOLOTYPE: 1 ♀, 50 mm, SSB 118, USNM 214318, "Albatross" sta. 4396, Pacific Ocean, California, off San Diego, 33°01'35"N 121°32'W, 8 ft Tanner trawl, 2228 fm (4072 m), 31 March 1904. Illustrated in Berry, 1912c, pl. 32 fig. 4, pl. 33 figs. 3 and 4. Unique specimen has dried and is in poor condition.
- hedleyi*, *Sepia* Berry, 1918. *Biol. Res. Fish. Exp. "Endeavour"*, 4(5): 258–264. HOLOTYPE: 1 ♂, 81 mm, text figs. 48 and 49, pl. 71, pl. 72 figs. 1, 3 and 6, SSB 499, AMS C148252, "Endeavour" E2464, Indian Ocean, South Australia, S of Kangaroo Island, area S of Investigator Strait, January/February 1912. PARATYPE: 1 ♂, 83 mm, SSB 497, USNM 815720, "Endeavour" E2461, from same locality as holotype, date unknown. PARATYPE: 1 ♂, 79 mm, SSB 502, "Endeavour" E2463, from same locality as holotype, date unknown. PARATYPE: 1 ♂, 74 mm, SSB 503, "Endeavour" E2462, from same locality as holotype, date unknown. Location of SSB 502 and 503 is unknown; not listed by Rudman (1983) in AMS collections.
- heteropsis*, *Calliteuthis* (*Meleagroteuthis*) Berry, 1913. *Proc. Acad. Nat. Sci. Phila.*, 65: 75–76. HOLOTYPE: 1 ♀, 59 mm, SSB 108, USNM 214620, "Albatross" sta. 4416, Pacific Ocean, California, off Santa Barbara Island, SW rock, N 49° W, 4.7 mi, 9 ft Tanner trawl, 323–448 fm (590–818 m), 12 April 1904. Illustrated in Berry, 1912c, pl. 50 figs. 1–3, pl. 51 figs. 2 and 3. Specimen is no longer extant. PARATYPE: 1 ♀, 48 mm, SSB 110, CASIZ 029130, "Albatross" sta. 4538, Pacific Ocean, California, Monterey Bay, Point Pinos lighthouse, S 85° E, 6.5 mi, 8 ft Albatross-Blake trawl, 795–871 fm (1453–1592 m), 31 May 1904. This specimen is designated as the "cotype" on the original label and in Berry's card catalog. Illustrated in Berry, 1912c, pl. 51 fig. 1.
- hoylei*, *Polypus* Berry, 1909. *Proc. U.S. Natl. Mus.*, 37(1713): 407–408. HOLOTYPE: 1 ♂, 65 mm, text fig. 1, SSB 166, USNM 214310, "Albatross" sta. unknown, Pacific Ocean, vicinity of Hawaiian Islands, no date. Illustrated in Berry, 1914c, pl. 47 fig. 1, pl. 48 figs. 2 and 3, pl. 55 fig. 2. No paratypes designated. Paratypes listed incorrectly in Roper & Sweeney (1978).
- hubbsorum*, *Octopus* Berry, 1953. *Leaf. Malac.*, 1(10): 53–54. HOLOTYPE: 1 ♂, 48 mm, SSB 943, USNM 816360, A. O. Flechsig & K. S. Norris sta. W50-50, Pacific Ocean, Mexico, Gulf of California, Sonora, Bahia San Carlos, S side of Punta San Guillermo, 1 February 1950. PARATYPE: 1 ♀, 18\* mm, SSB 926, USNM 816480, A. Allanson et al. sta. H51-387, Pacific Ocean, Mexico, Gulf of California, Sonora, Puerto San Carlos, midway between Punta Paredones and Punta de las Cuernas, 17 October 1951. Specimen has dried and is in very poor condition. PARATYPE: 1 ♀, 55\* mm, SSB 941, USNM 816400, A. O. Flechsig sta. W50-35, Pacific Ocean, Mexico, Gulf of California, Sonora, Bahia San Carlos, W side of Punta de las Cuernas, 27–29 January 1950. This species has not been figured.
- iris*, *Stoloteuthis* Berry, 1909. *Proc. U.S. Natl. Mus.*,



- 37(1713): 410–412. HOLOTYPE: 1 sex undetermined, 7 mm, fig. 3, SSB 31, USNM 214312, "Albatross" sta. 3832, Pacific Ocean, Hawaii, off Molokai Island, Lae-o Ka Laau light, N 69°30', W 14.5', 8 ft Tanner trawl, 142–153 fm (259–279 m), 2 April 1902. Unique specimen is no longer extant.
- kermadecensis*, *Polypus* (*Pinnoctopus*?) Berry, 1914. *Trans. N.Z. Inst.*, 46: 138–139. HOLOTYPE: 1 ♀, 50 mm, pls. 7 and 8, SSB 399, USNM 816461, collector undetermined (Iredale, Oliver or Bell), Pacific Ocean, Kermadec Islands, Sunday Island, stranded on beach, no date. Specimen was unique.
- leioderma*, *Polypus* Berry, 1911. *Proc. U.S. Natl. Mus.*, 40(1838): 590–591. HOLOTYPE: 1 ♀, 45 mm, SSB 137, USNM 214322, "Albatross" sta. 4293, Pacific Ocean, Alaska, Shelikof Strait, Cape Uyak, S 10°W, 5.8 mi, 8 ft Tanner trawl, 106–112 fm (193–204 m), 15 August 1903. Illustrated in Berry, 1912c, pl. 35 fig. 1, pl. 40 fig. 4. Specimen is no longer extant. No paratypes designated.
- lemur*, *Pyrgopsis* Berry, 1920. *Proc. U.S. Natl. Mus.*, 58(2335): 298–299. HOLOTYPE: 1 juv., 33 mm, pl. 16 fig. 5, SSB 582, USNM 338698, "Bache" sta. 10161, Atlantic Ocean, off North Carolina, 35°27'N 73°14'W, plankton net, surface, 28 January 1914. No paratypes designated.
- lugubris*, *Laetmoteuthis* Berry, 1913. *Proc. U.S. Natl. Mus.*, 45(1996): 563. HOLOTYPE: 1 sex undetermined, ML undetermined, SSB 211, USNM 214385, "Albatross" sta. 3904, Pacific Ocean, Hawaii, off Molokai Island, Mokuapu Islet, S 76°, W 13', dipnet, surface, 30 April 1902. Illustrated in Berry, 1914c, text-figs. 1 and 2. Partially decomposed when collected. No paratypes designated. Paratype listed incorrectly in Roper & Sweeney (1978).
- macrope*, *Cirroteuthis* Berry, 1911. *Proc. U.S. Natl. Mus.*, 40(1838): 589. HOLOTYPE: 1 juv., 99 mm (total length), SSB 120, USNM 214317, "Albatross" sta. 4393, Pacific Ocean, California, off San Diego, 32°54'20"N 121°11'15"W, 8 ft Tanner trawl, 2113–2259 fm (3862–4129 m), 30 March 1904. Illustrated in Berry, 1912c, text-fig. 1, pl. 32 figs. 1–3. No paratypes designated.
- magister*, *Gonatus* Berry, 1913. *Proc. Acad. Nat. Sci. Phila.*, 65: 76–77. HOLOTYPE: 1 ♀, 153 mm, SSB 88, CASIZ 017965 [463], shrimp fishermen, Pacific Ocean, Washington, Puget Sound, 1909. Illustrated in Berry, 1912c, pl. 52 figs. 1 and 2, pl. 53 fig. 1, pl. 54 figs. 1–3, pl. 55 figs. 1, 3, 4 and 7. No paratypes designated.
- mawsoni*, *Stauroteuthis* (?) Berry, 1917. *Sci. Rep. Australasian Ant. Exped.*, C4(2): 8–11. HOLOTYPE: 1 juv., 15 mm, text figs. 1–4, pl. 10 fig. 1, SSB 447, AMS C40886, "Aurora" sta. 2, Antarctic Ocean, Adeline Land, off Mertz Glacier, 66°55'S 145°21'E, trawl, 288–300 fm (526–548 m), 28 December 1913. Specimen was unique.
- megaleia*, *Lampadioteuthis* Berry, 1916. *Proc. Acad. Nat. Sci. Phila.*, 68: 52–58. HOLOTYPE: 1 sex undetermined, 30 mm, SSB 416, R. S. Bell, Pacific Ocean, Kermadec Islands, Sunday Island, stranded on beach, 1910. Deposition of specimen unknown; unique specimen not found in Berry collection.
- microlampas*, *Pterygioteuthis* Berry, 1913. *Proc. U.S. Natl. Mus.*, 45(1996): 566. HOLOTYPE: 1 ♀, 18 mm, SSB 277, USNM 214386, "Albatross" sta. 4105, Pacific Ocean, Hawaii, Kaiwi Channel, Molokai Island, Lae-o Ka Laau light, S 45°30', E 10.6', 8 ft Tanner trawl, 314–335 fm (573–612 m), 24 July 1902. Illustrated in Berry, 1914c, text fig. 36, pl. 52 figs. 1 and 3. Specimen is no longer extant. No paratypes designated.
- micropyrsus*, *Octopus* Berry, 1953. *Leaf. Malac.*, 1(10): 52–53. HOLOTYPE: 1 ♂, 10 mm, SSB 995, USNM 815704, C. Limbaugh, Pacific Ocean, California, San Diego County, La Jolla Cove, by hand from kelp holdfast, 6 fm (10 m), 27 October 1950. PARATYPE: 1 ♂, 14 mm, SSB 900, USNM 815706, B. M. McConnaughey sta. 1-60, Pacific Ocean, California, San Diego County, La Jolla, Devil's Slide, intertidal, 3 March 1947. PARATYPE: 1 ♂, 10 mm, SSB 996, USNM 815705, same lot as holotype. This species has not been figured.
- miranda*, *Calliteuthis* Berry, 1918. *Biol. Res. Fish. Exp. "Endeavour"*, 4(5): 221–228. HOLOTYPE: 1 ♀, 140 mm, text-figs. 5–9, pls. 61 and 62, SSB 545, "Endeavour" E5605, Australia, Tasman Sea, Victoria, SSE of Gabo Island, 270 fm (493 m), 15 September 1914. Specimen is no longer extant in AMS according to Rudman (1983). No paratypes designated. Neotype designated by Voss (1969: p. 801).
- nipponensis*, *Stoloteuthis* Berry, 1911. *Zool. Anz.*, 37(2): 39–41. HOLOTYPE: 1 ♂, 17 mm, 1 fig., SSB 32, CASIZ 017976 [459], "Albatross" (J. O. Snyder?), Pacific Ocean, Japan, Honshu Island, Suruga Bay, 1900. Specimen was unique.
- nipponianum*, *Sepiadarum* Berry, 1932. *Philipp. J. Sci.*, 47(1): 42–46. HOLOTYPE: 1 ♂, 11 mm, pl. 1 figs. 2 and 3, SSB 724, USNM 816462, M. Sasaki, Pacific Ocean, Japan, Honshu Island, "Prov. Sagami", 10 April 1918. PARATYPES: 1 ♂, 1 ♀, 16.2 and 16 mm, pl. 1 figs. 4 and 5, SSB 725, USNM 816359, from same lot as holotype. PARATYPE: 1 ♀, 15 mm, SSB 725, SAM D17496, from same lot as holotype. Not located in SAM by Zeidler (1983); recently was found in Berry collection and returned to SAM. Seven specimens (SSB 725) are listed as paratypes by Berry in his card catalog and the lot was labeled as such at the time of the species description. However, only three of these specimens were designated by Berry, 1931: 44 as paratypes.
- notoides*, *Idiosepius* Berry, 1921. *Rec. S. Aust. Mus.*, 1(4): 361–362. HOLOTYPE: 1 ♂, 16 mm, fig. 67, SSB 719, SAM D17495, A. Zietz, South Australia, Goolwa, no date. Not located in SAM by Zeidler (1983); recently was found in Berry collection and returned to SAM. PARATYPE:

- 1 ♀, 21 mm, SSB 720, USNM 816458, from same lot as holotype.
- oliveri*, *Polypus* Berry, 1914. *Trans. N.Z. Inst.*, 46: 136–137. HOLOTYPE: 1 ♀, 45 mm, SSB 405, USNM 816455, W. R. B. Oliver, Pacific Ocean, Kermadec Islands, Sunday Island, intertidal, 1908. Illustrated in Berry, 1916b, pl. 6, fig. 2. PARATYPE: 1 ♀, 40 mm, SSB 405, CASIZ 021805 [464], from same lot as holotype.
- opalescens*, *Loligo* Berry, 1911. *Proc. U.S. Natl. Mus.*, 40(1838): 591–592. HOLOTYPE: 1 ♂, 132 mm, SSB 101, CASIZ 017970 [547], shrimp fishermen, Pacific Ocean, Washington, Puget Sound, 1908. PARATYPE: 1 ♀, 146 mm, SSB 101, USNM 214388, from same lot as holotype. PARATYPE: 1 ♂, 126 mm, SSB 101, USNM 816384, from same lot as holotype. Paratypes designated and species illustrated in Berry, 1912c.
- pacifica*, *Rossia* Berry, 1911. *Proc. U.S. Natl. Mus.*, 40(1838): 591. HOLOTYPE: 1 sex undetermined, SSB 21, USNM 214323, "Albatross" sta. 4233, Pacific Ocean, Alaska, Alexander Archipelago, Yes Bay, Behm Canal, Cannery Point, N 55°W, 1 mi, 8 ft Tanner trawl, 39–45 fm (71–82 m) 8 July 1903. Specimen is no longer extant. PARATYPES: 8 sex undetermined, SSB 21, USNM 214323, from same lot as holotype. Specimens are no longer extant. PARATYPES: 1 ♂\*, 1 ♀\*, both 30\* mm, SSB 21, CASIZ 018796 [495 and 496], from same lot as other types. Original label reads "cotypes." Species illustrated by Berry, 1912c, pl. 41 figs. 1–4, pl. 43 figs. 2–4, with unspecified specimens from SSB 21.
- panamensis*, *Lolliguncula* (?) Berry, 1911. *Proc. Acad. Nat. Sci. Phila.*, 63: 100–105. HOLOTYPE: 1 ♀, 102\* mm, text figs. 1, 2 and 7 (not 5 as listed), pl. 6, SSB 58, CASIZ 017968 [538], Hopkins Expedition, R. E. Snodgrass & E. Heller, Pacific Ocean, Panama, 1898–1899? PARATYPE: 1 ♀, 103\* mm, SSB 58, CASIZ 017969 [537], from same lot as holotype. PARATYPE: 1 ♀, ML undetermined, text figs. 1, 2 and 7 (not 5 as listed), pl. 6, SSB 58, USNM 214324, from same lot as holotype. Specimen is no longer extant.
- pardus*, *Megalocranchia* Berry, 1916. *Proc. Acad. Nat. Sci. Phila.*, 68: 61–64. HOLOTYPE: 1 juv.\*, 50 mm, text figs. 19–22, pl. 9 fig. 2, SSB 415, USNM 816465, R. S. Bell, Pacific Ocean, Kermadec Islands, Sunday Island, stranded on beach, 1910. Specimen was unique.
- patagiatus*, *Scaevurgus* Berry, 1913. *Proc. U.S. Natl. Mus.*, 45(1996): 564. HOLOTYPE: 1 ♂, 46 mm, SSB 204, USNM 214379, "Albatross" sta. 4079, Pacific Ocean, Hawaii, off Maui Island, Puniawa Point, S 31°30', E 6', 10 ft Blake Trawl, 143–178 fm (261–325 m), 21 July 1902. Illustrated in Berry, 1914c, pl. 47 figs. 2 and 3, pl. 48 fig. 1. Specimen is no longer extant. No paratypes designated.
- pathopsis*, *Sandalops* Berry, 1920. *Proc. U.S. Natl. Mus.*, 58(2335): 297. HOLOTYPE: 1 juv.\*, 8 mm, pl. 16 fig. 1. SSB 624, USNM 338696, "Bache" sta. 10166, Atlantic Ocean, Sargasso Sea, 32°33'N 72°14'W, plankton net, 0–1100 m, 30 January 1914. PARATYPE: 1 sex undetermined, ML undetermined, SSB 625, USNM 729182, from same lot as holotype. One of six specimens (mentioned in remarks on p. 297) that was designated in Berry's card catalog and on the specimen label as a paratype at the time of the species description. The specimen recently has been found in the Berry collection.
- penicillifer*, *Octopus* Berry, 1954. *Leaf. Malac.*, 1(11): 66. HOLOTYPE: 1 ♂, 15 mm, SSB 1014, USNM 815717, "Stranger" (M. W. Williams), Pacific Ocean, Mexico, Gulf of California, Baja California Sur, off Punta Arena, trawl, 17 fm (31 m), 23 April 1937. Specimen has dried and is in poor condition. No paratypes designated. This species has not been figured.
- persephone*, *Opisthoteuthis* Berry, 1918. *Biol. Res. Fish. Exp. "Endeavour"*, 4(5): 290–294. HOLOTYPE: 1 sex undetermined, 330 mm (tip of right dorsal arm to tip of left ventral arm), pl. 81 fig. 7, pl. 82 fig. 9, pls. 85 and 86, SSB 480, AMS C148253, "Endeavour" E5718, Australia, Bass Strait, Victoria, 42 mi SE of Genoa Peak, 260 fm (475 m), 24 October 1914. PARATYPE: 1 sex undetermined, 225 mm (tip of right dorsal arm to tip of left ventral arm), text-fig. 66, pl. 87 fig. 2, pl. 88 fig. 2, SSB 481, "Endeavour" E5719, from same lot as holotype. Location of specimen unknown; not listed by Rudman (1983) in AMS collections. PARATYPE: 1 juv.\*, 150\* mm (tip of right dorsal arm to tip of left ventral arm), SSB 482, USNM 816361, "Endeavour" E5720, from same lot as holotype.
- phyllura*, *Galiteuthis* Berry, 1911. *Proc. U.S. Natl. Mus.*, 40(1838): 592. HOLOTYPE: 1 sex undetermined, 230 mm, SSB 113, USNM 214325, "Albatross" sta. 4529, Pacific Ocean, California, Monterey Bay, Point Pinos lighthouse, S 61°E, 10.9 mi, 9 ft Tanner Trawl, 780–799 fm (1425–1460 m), 27 May 1904. Illustrated in Berry, 1912c, text figs. 17 and 18, pl. 46 figs. 1–3, pl. 56 figs. 1 and 2. Unique specimen has dried and is in poor condition.
- pluto*, *Opisthoteuthis* (*Teuthidiscus*) Berry, 1918. *Biol. Res. Fish. Exp. "Endeavour"*, 4(5): 284–290. HOLOTYPE: 1 sex undetermined, 540 mm (tip of right dorsal arm to tip of left ventral arm), pl. 82 fig. 5, pls. 83 and 84, SSB 464, "Endeavour" E3628, Indian Ocean, Great Australian Bight, —°—'S 129°28'E, 350–450 fm (632–822 m), 14 May 1913. Specimen is no longer extant in AMS collections according to Rudman (1983). PARATYPE: 1 sex undetermined, 265 mm (tip of right dorsal arm to tip of left ventral arm), SSB 465, USNM 815718, "Endeavour" E3629, Indian Ocean, Great Australian Bight, S of Eucla, —°—'S 126°10'E, 200 fm (365 m), 13 May 1913.
- pricei*, *Polypus* Berry, 1913. *Proc. Acad. Nat. Sci.*

- Phila.*, 65: 73–75. HOLOTYPE: 1♀, 18 mm, fig. 2, SSB 189, CASIZ 017966 [454], C. H. Gilbert, Pacific Ocean, California, Monterey Bay, off Point Pinos, salmon stomach, 23 June 1911. Specimen has dried and is in poor condition. PARATYPES: 2♀, both 20\* mm, fig. 2, SSB 189, CASIZ 017967 [455 & 456], from same lot as holotype. PARATYPE: 1♀, 7\* mm, fig. 2, SSB 189, USNM 814680, from same lot as holotype. Specimen has dried and is in very poor condition.
- regalis*, *Nematolampas* Berry, 1913. *Biol. Bull.*, 25(3): 208–211. HOLOTYPE: 1♂\*, 32 mm, SSB 409, USNM 815721, R. S. Bell, Pacific Ocean, Kermadec Islands, Sunday Island, stranded on beach, 1910. Illustrated in Berry, 1914b, text figs. 2 and 3, pl. 9. PARATYPE: 1♂\*, 26 mm, SSB 410, USNM 816592, from same lot as holotype. Paratype designated and illustrated in Berry, 1914b, text fig. 1. Specimen dissected completely by Berry.
- rubescens*, *Octopus* Berry, 1953. *Leaf. Malac.*, 1(10): 51–52. HOLOTYPE: 1♂, 32 mm, SSB 969, USNM 815709, "Orca" (C. L. Hubbs *et al.*) sta. H49-167, Pacific Ocean, Mexico, Baja California Norte, off S end of South Coronado Island, trawl, 15–17 fm (27–31 m), 27 November 1949. PARATYPE: 1♀, 14\* mm, SSB 968, USNM 815710, "E. W. Scripps" (C. L. Hubbs *et al.*) sta. H48-222, from same locality as holotype, trawl, 15 fm (27 m), 11 August 1948. Specimen has dried and is in poor condition. PARATYPES: 3♂, 5♀, 5 juv., 11–29\* mm, SSB 970, USNM 815711, from same lot as holotype. PARATYPES: 1♂, 1♀, ML undetermined, SSB 972, "Orca" (C. L. Hubbs *et al.*), from same locality as holotype, trawl, 12 fm (21 m), 18 October 1949. Deposition of specimens is unknown, not found in Berry collection. PARATYPES: 2♀, 12 and 23\* mm, SSB 976, USNM 815712, "Orca" (C. L. Hubbs *et al.*) sta. H49-36, from same locality as holotype, trawl, 7–13 fm, 23 April 1949. This species has not been figured.
- scintillans*, *Abraliopsis* Berry, 1911. *Nautilus*, 25(8): 93–94. HOLOTYPE: 1♀, 59 mm, SSB 147, CASIZ 021667 [453], Alan Owston?, "Japan, probably off Misaki" "Label lost." Illustrated in Berry, 1912d, pl. 7 figs. 3 and 4, pl. 9 figs. 2 and 3. PARATYPES: 2♀, 52 and 55 mm, SSB 147, USNM 816498, from same lot as holotype. Paratypes designated by Berry, 1912d: 430 (specimens 2 and 3). Specimens have dried and are in very poor condition. One specimen (52 mm) dissected completely by Berry. Illustrated in Berry, 1912d, text figs. 2 and 3, pl. 7 figs. 1 and 2, pl. 9 figs. 1, 4–6.
- scolopes*, *Euprymna* Berry, 1913. *Proc. U.S. Natl. Mus.*, 45(1996): 564–565. HOLOTYPE: 1♂, 25 mm, SSB 320, USNM 214380, "Albatross" sta. 3905, Pacific Ocean, Hawaii, Molokai Island, off Kalanpapa leper settlement 0.75 mi, dipnet and night light, surface, 30 April 1902. Illustrated in Berry, 1914c, text figs. 23 and 24, pl. 49 fig. 5.
- PARATYPES: 6♂, 3♀, 7–13\* mm, SSB 323, USNM 727393, from same lot as holotype. PARATYPES: 2♂, 1♀, 18–25\* mm, SSB 323, CASIZ 017975 [497, 498 and 499], from same lot as holotype. Paratypes designated by Berry, 1914c: 314.
- scorpio*, *Polypus* Berry, 1920. *Proc. U.S. Natl. Mus.*, 58(2335): 299–300. HOLOTYPE: 1 juv., 4 mm, pl. 16 fig. 4, SSB 682, USNM 338699, "Bache" sta. 10204, Atlantic Ocean, off Florida, 25°33'N 80°03'W, plankton net, 0–75 m, 20 March 1914. No paratypes designated.
- spinicauda*, *Enoproteuthis* Berry, 1920. *Proc. U.S. Natl. Mus.*, 58(2335): 295. HOLOTYPE: 1 juv., 17 mm, pl. 16 fig. 6, SSB 638, USNM 338694, "Bache" sta. 10188, Atlantic Ocean, Sargasso Sea, 28°51'N 70°08'W, plankton net, 0–75 m, 24 February 1914. Unique specimen has dried and is in poor condition.
- trigonura*, *Abralia* Berry, 1913. *Proc. U.S. Natl. Mus.*, 45(1996): 565–566. HOLOTYPE: 1♀, 34 mm, SSB 275, USNM 214387, "Albatross" sta. 4087, Pacific Ocean, Hawaii, Pailolo Channel (Between Molokai and Maui Islands), Mokuhooniki Islet, S 85°45', W 21.2', 10 ft Blake trawl, 306–308 fm (559–563 m), 21 July 1902. Illustrated in Berry, 1914c, text fig. 33. Unique specimen is no longer extant.
- veligero*, *Octopus* Berry, 1953. *Leaf. Malac.*, 1(10): 57. HOLOTYPE: 1♂, 37 mm, SSB 1000, USNM 815716, B. Fukuzaki, Pacific Ocean, Mexico, Baja California Sur, off San Juanico, 50 fm (91 m), August 1952. PARATYPES: 2♀, 24 and 25\* mm, SSB 947, USNM 816432, from same lot as holotype. Specimens have dried and are in poor condition. This species has not been figured.

#### CEPHALOPOD PUBLICATIONS OF S. STILLMAN BERRY

- BERRY, S. S., 1909, Diagnoses of new cephalopods from the Hawaiian Islands. *Proceedings of the United States National Museum*, 37(1713): 407–419, 9 text figs.
- BERRY, S. S. & MARK, E. L., 1910, Luminous organs in a cephalopod. [Title only; Eighth International Congress Graz, Austria.] *Science*, (N.S.), 32(824): 503.
- BERRY, S. S., 1911a, A new sepiolid from Japan. *Zoologischer Anzeiger*, 37(2): 39–41, 1 text fig.
- BERRY, S. S., 1911b, A note on the genus *Lolliguncula*. *Proceedings of the Academy of Natural Sciences of Philadelphia*, 63 [Feb.]: 100–105, 7 text figs., pl. 6.
- BERRY, S. S., 1911c, Preliminary notices of some new Pacific cephalopods. *Proceedings of the United States National Museum*, 40(1838): 589–592.
- BERRY, S. S., 1911d, Notes on some cephalopods in the collection of the University of California.

- University of California Publications in Zoology*, 8(7): 301–310, 4 text figs., pls. 20–21.
- BERRY, S. S., 1911e, Note on a new *Abraliopsis* from Japan. *Nautilus*, 25(8): 93–94.
- BERRY, S. S., 1912a, Note on the occurrence of a giant squid off the California coast. *Nautilus*, 25(10): 117–118.
- BERRY, S. S., 1912b, On a cephalopod new to California with a note on another species. *First Annual Report of Laguna Marine Laboratory*, pp. 83–87, 5 text figs.
- BERRY, S. S., 1912c, A review of the cephalopods of western North America. *Bulletin of the Bureau of Fisheries*, 30(1910): 267–336, 18 text figs., pls. 32–66.
- BERRY, S. S., 1912d, A catalogue of Japanese Cephalopoda. *Proceedings of the Academy of Natural Sciences of Philadelphia*, 64 [Jul.]: 380–444, 4 text figs., pls. 5–9.
- BERRY, S. S., 1912e, Some necessary changes in cephalopod nomenclature. *Science*, (N.S.), 36(932): 643–646.
- BERRY, S. S., 1913a, Notes on some West American cephalopods. *Proceedings of the Academy of Natural Sciences of Philadelphia*, 65 [Feb.]: 72–77, 2 text figs.
- BERRY, S. S., 1913b, Some new Hawaiian cephalopods. *Proceedings of the United States National Museum*, 45(1996): 563–566.
- BERRY, S. S., 1913c, *Nematolampas*, a remarkable new cephalopod from the South Pacific. *Biological Bulletin*, 25(3): 208–212, 1 text fig.
- BERRY, S. S., 1913d, Teuthological Miscellany No. 1. *Zoologischer Anzeiger*, 42(13): 590–592.
- BERRY, S. S., 1914a, Another giant squid in Monterey Bay. *Nautilus*, 28(2): 22–23.
- BERRY, S. S., 1914b, Notes on a collection of cephalopods from the Kermadec Islands. *Transactions of the New Zealand Institute*, 46: 134–149, 4 text figs., pls. 7–10.
- BERRY, S. S., 1914c, The Cephalopoda of the Hawaiian Islands. *Bulletin of the Bureau of Fisheries*, 32(1912): 255–362, 40 text figs., pls. 45–55.
- BERRY, S. S., 1916a, The octopod *Ocythoe* in California. *Journal of Entomology and Zoology*, 8(1): 1–4, pl. 1.
- BERRY, S. S., 1916b, Cephalopoda of the Kermadec Islands. *Proceedings of the Academy of Natural Sciences of Philadelphia*, 68: 45–66, 22 text figs., pls. 6–9.
- BERRY, S. S., 1917a, Cephalopoda. *Scientific Reports of the Australasian Antarctic Expedition 1911–1914*. Series C, 4(2): 1–39, 30 text figs., pls. 10–14.
- BERRY, S. S., 1917b, On *Moschites verrucosa* (Verrill) and its allies. *Proceedings of the Academy of Natural Sciences of Philadelphia*, 69 [Jan.]: 2–6, 2 text figs., pls. 1–2.
- BERRY, S. S., 1918, Report on the Cephalopoda obtained by the F.I.S. "Endeavour" in the Great Australian Bight and other southern Australian localities. *Biological Results of the Fishing Experiments carried on by the F.I.S. "Endeavour," 1909–14*, 4(5): 201–298, 67 text figs., pls. 59–88.
- BERRY, S. S., 1920a, Light production in cephalopods, I. An introductory survey. *Biological Bulletin*, 38(3): 141–169.
- BERRY, S. S., 1920b, Light production in cephalopods, II. An introductory survey. *Biological Bulletin*, 38(4): 171–195.
- BERRY, S. S., 1920c, Note on a preoccupied generic name in cephalopods. *Nautilus*, 34(2): 66–67.
- BERRY, S. S., 1920d, Preliminary diagnoses of new cephalopods from the western Atlantic. *Proceedings of the United States National Museum*, 58(2335): 293–300, pl. 16.
- BERRY, S. S., 1921a, A review of the cephalopod genera *Sepioloidea*, *Sepiadarium*, and *Idiosepius*. *Records of the South Australian Museum*, 1(4): 347–364, 4 text figs.
- BERRY, S. S., 1921b, Notes on some Japanese cephalopods.—A review of Sasaki's 'Albatross' report. *Annals and Magazine of Natural History*, (9)8: 351–353.
- BERRY, S. S., 1925, The Cephalopoda collected by the Canadian Arctic Expedition, 1913–18. *Report of the Canadian Arctic Expedition*, 1913–18, 8(B): 1–8, 3 text figs.
- BERRY, S. S., 1926, A note on the occurrence and habits of a luminous squid (*Abralia veranyi*) at Madeira. *Biological Bulletin*, 51(4): 257–268, 2 text figs.
- BERRY, S. S., 1929, *Loliolopsis chiroctes*, a new genus and species of squid from the Gulf of California. *Transactions of the San Diego Society of Natural History*, 5(18): 263–282, 9 text figs., pls. 32–33.
- BERRY, S. S., 1932, Cephalopods of the genera *Sepioloidea*, *Sepiadarium*, and *Idiosepius*. *Philippine Journal of Science*, 47(1): 39–55, pl. 1.
- BERRY, S. S., 1934, Class Cephalopoda, pp. 160–165. In: Johnson, C. W., List of marine Mollusca of the Atlantic coast from Labrador to Texas. *Proceedings of the Boston Society of Natural History*, 40(1): 1–203.
- BERRY, S. S., 1949a, A new *Opisthoteuthis* from the eastern Pacific. *Leaflets in Malacology*, 1(6): 23–26.
- BERRY, S. S., 1949b, A survey and natural history of *Argonauta*. [Title only of presented paper.] *American Malacological Union News Bulletin and Annual Report*, 1948 [Bull. No. 15]: 22.
- BERRY, S. S., 1950, A new spectacular find—a new cephalopod found in California. [Title only of presented paper.] *American Malacological Union News Bulletin and Annual Report*, 1949 [Bull. No. 16]: 19.
- BERRY, S. S., 1952, The flapjack devilfish, *Opisthoteuthis*, in California. *California Fish and Game*, 38(2): 183–188, 5 text figs.
- BERRY, S. S., 1953a, Preliminary diagnoses of six west American species of *Octopus*. *Leaflets in Malacology*, 1(10): 51–58.
- BERRY, S. S., 1953b, The male flapjack devilfish.

- (Abstract.) *Annual Report of the American Malacological Union*, 1953 [Bull. No. 20]: 29.
- BERRY, S. S. & HALSTEAD, B. W., 1954a, *Octopus* bites—a second report. *Leaflets in Malacology*, 1(11): 59–65, 1 text fig.
- BERRY, S. S., 1954b, *Octopus penicillifer*, new species. *Leaflets in Malacology*, 1(11): 66.
- BERRY, S. S., 1955a, On recent Californian occurrences of the rare octopod *Ocythoe*. *California Fish and Game*, 41(2): 177–181, 1 text fig.
- BERRY, S. S., 1955b, The male flapjack devilfish. *California Fish and Game*, 41(3): 219–224, 4 text figs.
- BERRY, S. S., 1963, A "*Doratopsis*" larva of the squid family Chiroteuthidae in Californian waters. *California Fish and Game*, 49(3): 128–139, 6 text figs.
- BERRY, S. S., 1975, Remarks on *Ocythoe*. [Title only of presented paper.] *Western Society of Malacologists Annual Report*, 8: 10.