



Catalog of the Type Specimens  
of Seastars (Echinodermata: Asteroidea)  
in the National Museum of Natural  
History, Smithsonian Institution

CYNTHIA GUST AHEARN

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Smithsonian Institution

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*Cynthia Gust Ahearn*



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## ABSTRACT

Ahearn, Cynthia Gust. Catalog of the Type Specimens of Seastars (Echinodermata: Asteroidea) in the National Museum of Natural History, Smithsonian Institution. *Smithsonian Contributions to Zoology*, number 572, 59 pages, 1995.—The asteroid type specimens deposited in the National Museum of Natural History comprise 1183 lots representing 552 nominal species, subspecies, and varieties in 179 nominal genera. A taxonomic list of types reflects their current taxonomic status; an annotated alphabetic list is also provided. The format includes the original bibliographic citation for each species, catalog number, number of specimens, preservation, locality and collector data, synonymies, and remarks concerning status. An appendix of locality information is presented alphabetically by research vessel. A bibliography of relevant publications is provided. Problems concerning the status of W.K. Fisher's type specimens are summarized in the introduction and specifically resolved in the text.

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# Catalog of the Type Specimens of Seastars (Echinodermata: Asteroidea) in the National Museum of Natural History, Smithsonian Institution

*Cynthia Gust Ahearn*

## Introduction

The asteroid type specimens in the United States National Museum (USNM), now the National Museum of Natural History (NMNH), comprise 1183 type lots representing 552 nominal species, subspecies, and varieties in 179 nominal genera. The author has examined and verified every type specimen listed. This is the first comprehensive published report of asteroid types in the NMNH, although species described by W.K. Fisher and deposited in both the California Academy of Sciences (CAS) and the USNM have been reported (Chaffee and Weitbrecht, 1984).

FORMAT.—The catalog is arranged as two lists, an annotated list and a taxonomic list. The taxonomic list is arranged by family in the classification outline proposed by Clark and Downey (1992:1–2); within the families, taxa are arranged alphabetically by genus, and then by species. Currently accepted generic combinations are used, and in some instances, it was necessary to create unpublished (junior synonyms) combinations in order to include the original species name in this listing.

In the annotated list of type specimens, the arrangement is alphabetical according to the specific names used in the original descriptions, and the information provided has been structured for consistency as follows: *Species*, or *subspecies*, *Genus*, (*Subgenus*), Author, year:page(s), plate(s), figure(s).

Type status, USNM catalog number, number of specimen(s), preservation, collecting vessel, station number, modifying locality, exact locality, depth, collector(s), expedition, date collected, condition of specimen(s) (where applicable), original depository and catalog number.

Remarks include any necessary verification and discussion of type status and correction of erroneous published information concerning the type(s) or type locality.

Synonymy, where applicable, includes first reference to the taxonomic change.

In 1920, A.H. Clark, curator of Echinoderms at the USNM, began the system of assigning catalog numbers prefixed with the letter E. Prior to this date, echinoderms shared a single series of catalog numbers with the coelenterate collections and no letter prefix was assigned. Both numbering systems are reflected in the asteroid type collection. Occasionally, a type specimen was incorrectly cataloged twice, and I used whichever catalog number was published—even if that was the more recent number, rather than the original catalog number.

An appendix of locality descriptions is provided for type specimens collected by a research vessel and assigned a station number. The appendix is arranged alphabetically by vessel. Collection information for specimens with descriptive locality or specimens from other sources, such as individual collectors, is provided in the text.

The bibliographic information includes both publications in which at least one species was described and the type(s) deposited in the USNM and publications cited in the text for species in which some taxonomic change has occurred, in generic placement, in documentation of synonyms, or in designations of lectotypes and neotypes.

SPECIAL PROBLEMS.—Nearly half of the asteroid types in the USNM were described and deposited by W.K. Fisher between 1905 and 1940. Fisher described many starfish species in preliminary reports and then expanded his descriptions with more specimens in his larger monographs (1911a, 1919a, 1928a, 1930). Due to this practice, the USNM asteroid type collection held hundreds of specimens that were examined by Fisher for inclusion in his monographs but can not be

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considered type material. Unfortunately, the California Academy of Sciences published an asteroid type catalog (Chaffee and Weitbrecht, 1984) based on incorrect information contained within the USNM collections. The original description of a species, no matter how brief it may be in Fisher's preliminary reports, must be the original citation. Only the specimens properly documented in the original citation can have type status, and the specimens examined by Fisher in subsequent monographs are simply voucher specimens or hypotypes and are not now included in the asteroid type collection.

In several of his preliminary reports, Fisher designated the type by a USNM catalog number, and in these instances, the status of the type material is unequivocal. However, he did not always clearly designate types, nor did he always publish catalog numbers in his reports. A list of type specimens labeled by Fisher but not referred to by USNM catalog number in the original publication precedes the taxonomic and annotated alphabetic listing of types herein.

Usually, Fisher described a single specimen and provided precise measurements for that specimen; sometimes he mentioned an *Albatross* station number or an *Albatross* locality that can be matched to a station number. In these cases, although the USNM catalog number is not published in the original description, the USNM holds the specimen with W.K. Fisher's handwritten type label. According to Article 73(a)(ii) of the International Code of Zoological Nomenclature (ICZN, 1985), this is evidence of Fisher's intent to name the holotype, and the specimen is the holotype by monotypy.

In many of his preliminary reports, W.K. Fisher recorded *Albatross* locality information without stating the associated *Albatross* station number. The annotated type list records just the station number. Some *Albatross* station localities were recorded without providing latitudes and longitudes and these will have the descriptive localities provided in the text rather than the appendix.

Due to the large number of Fisher's preliminary reports with brief descriptions, complete references to his monographic reports are provided following the original citation for each new species in the annotated list.

In Parts 2 and 3 of his *Asteroidea of the North Pacific and Adjacent Waters* (1928a; 1930), W.K. Fisher described both new subspecies and new forms of various taxa, which indicates that he clearly intended to use both ranks for his new taxa. According to Article 45(g)1 of the ICZN, the rule of interpretation can be applied to Fisher's intent to maintain his infrasubspecific ranks and therefore these are excluded from the asteroid type collection.

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Committee of the 1985 edition of the ICZN, who confirmed our interpretations of the Code. I wish also to thank Daniel B. Blake (University of Illinois, Urbana, Illinois) and Philip Lambert (Royal British Columbia Museum, Victoria, British Columbia) who kindly reviewed the manuscript and offered useful suggestions for improvement.

**Type Specimens Labeled by W.K. Fisher  
but not Referred to by USNM Catalog Number  
in Original Publication**

*acanthonotus*, *Benthopecten* Fisher, 1905  
*aciculosus*, *Acantharchaster* Fisher, 1910c  
*actinocles*, *Zoroaster* Fisher, 1919b  
*actinodetus*, *Astrocles* Fisher, 1917d  
*alascensis*, *Pseudarchaster* Fisher, 1905  
*annectens*, subsp., *Henricia leviuscula* Fisher, 1910d  
*anoplus*, *Dipsacaster* Fisher, 1910c  
*asthenactis*, *Henricia* Fisher, 1910d  
*borealis*, *Dipsacaster* Fisher, 1910c  
*californica*, *Hippasteria* Fisher, 1905  
*clarki*, *Ceramaster* Fisher, 1910c  
*clarki*, *Cladaster* Fisher, 1910d  
*claviger*, *Benthopecten* Fisher, 1910c  
*coscinactis*, *Anteliaster* Fisher, 1923a  
*coscinopeplus*, *Pteraster* Fisher, 1910a  
*crassus*, *Odontaster* Fisher, 1905  
*dissonus*, *Pseudarchaster* Fisher, 1910c  
*ectenes*, subsp., *Myxoderma sacculatum* Fisher, 1919b  
*evermanni*, *Zoroaster (Myxoderma)* Fisher, 1905  
*evoplus*, subsp., *Cheiraster agassizi* Fisher, 1910c  
*exiguus*, *Solaster* Fisher, 1910d  
*exilis*, *Brisinga* Fisher, 1905  
*eximius*, *Dipsacaster* Fisher, 1905  
*fecunda*, *Freyella* Fisher, 1905  
*flexilis*, subsp., *Poraniopsis inflata* Fisher, 1910d  
*furcilliger*, *Lophaster* Fisher, 1905  
*gilberti*, *Dytaster* Fisher, 1905  
*heathi*, *Hippasteria* Fisher, 1905  
*intermedius*, *Acantharchaster* Fisher, 1910c  
*jordani*, *Pteraster* Fisher, 1905  
*koehleri*, *Hymenaster* Fisher, 1910a  
*laetmophilus*, *Dipsacaster* Fisher, 1910c  
*leiopelta*, *Hippasteria* Fisher, 1910c  
*lepidonotus*, *Cryptopeltaster* Fisher, 1905  
*leptocerama*, *Tosia* Fisher, 1905  
*longispina*, *Henricia* Fisher, 1910d  
*magister*, *Pedicellaster* Fisher, 1923a  
*marsippus*, *Pteraster* Fisher, 1910a  
*microplax*, *Freyellidea* Fisher, 1917d  
*mordax*, subsp., *Zoroaster evermanni* Fisher, 1919b  
*multispina*, subsp., *Henricia leviuscula* Fisher, 1910d  
*mutabilis*, *Benthopecten* Fisher, 1910c  
*ophiurus*, *Zoroaster* Fisher, 1905



*pectinatus*, *Bathybiaster* Fisher, 1905  
*pedicellaris*, subsp., *Acantharchaster variabilis* Fisher, 1910c  
*penichra*, *Lithosoma* Fisher, 1917b  
*penicillatus*, *Persephonaster* Fisher, 1905  
*perissonotus*, *Hymenaster* Fisher, 1910a  
*propinquus*, *Leptychaster* Fisher, 1910c  
*pusilla*, *Brisingella* Fisher, 1917d  
*pusillus*, *Pseudarchaster* Fisher, 1905  
*pyncnopodia*, *Aphanasterias* Fisher, 1923b  
*quadrispinosus*, *Hymenaster* Fisher, 1905  
*rhomaleum*, subsp., *Myxoderma platyacanthum* Fisher, 1919b  
*sacculatus*, *Zoroaster (Myxoderma)* Fisher, 1905  
*stereosomus*, *Echinaster* Fisher, 1913b  
*swifti*, *Mimaster* Fisher, 1905  
*synaptoma*, *Craterobrisinga* Fisher, 1917d  
*temnochiton*, *Pteraster* Fisher, 1910a  
*tenebrarius*, *Porcellanaster (Eremicaster)* Fisher, 1905  
*tenellus*, *Mediaster* Fisher, 1905  
*trigonodon*, *Pteraster* Fisher, 1910a  
*validus*, *Cladaster* Fisher, 1910c  
*variabilis*, *Acantharchaster* Fisher, 1910c  
*vexator*, subsp., *Lophaster furcilliger* Fisher, 1910d

**Taxonomic List of Asteroid Types Deposited  
in the National Museum of Natural History**

Class ASTEROIDEA

Order PAXILLOSIDA

Family LUIDIIDAE

*Luidia armata* Ludwig, 1905  
*Luidia asthenosoma* Fisher, 1906a  
*Luidia avicularia* Fisher, 1913c  
*Luidia bernasconiae* A.H. Clark, 1945  
*Luidia ferruginea* Ludwig, 1905  
*Luidia gymnochora* Fisher, 1913c  
*Luidia heterozona* Fisher, 1940  
*Luidia hystrix* Fisher, 1906b  
*Luidia ludwigi* Fisher, 1906a  
*Luidia magnifica* Fisher, 1906b  
*Luidia orientalis* Fisher, 1913c  
*Luidia porteri* A.H. Clark, 1917c  
*Luidia prionota* Fisher, 1913c  
*Luidia sarsi africana* Sladen, 1889  
*Luidia superba* A.H. Clark, 1917d

Family ASTROPECTINIDAE

*Astromesites compactus* Fisher, 1913a  
*Astropecten acanthifer phragmorus* Fisher, 1913a  
*Astropecten americanus* (Verrill, 1880b)  
*Astropecten americanus* var. *subgracilis* Verrill, 1915  
*Astropecten articulatus* (Say, 1825)  
*Astropecten benthophilus* Ludwig, 1905  
*Astropecten brasiliensis* Müller and Troschel, 1842  
*Astropecten callistus* Fisher, 1906b  
*Astropecten comptus* Verrill, 1915

*Astropecten ctenophorus* Fisher, 1906b  
*Astropecten eremicus* Fisher, 1913a  
*Astropecten eucnemis* Fisher, 1919a  
*Astropecten exiguus* Ludwig, 1905  
*Astropecten hawaiiensis* Döderlein, 1917  
*Astropecten irregularis pontoporeus* (Sladen, 1883)  
*Astropecten luzonicus* Fisher, 1913a  
*Astropecten nitidus* Verrill, 1915  
*Astropecten nitidus* var. *forcipatus* Verrill, 1915  
*Astropecten nuttingi* Verrill, 1915  
*Astropecten ornatissimus* Fisher, 1906a  
*Astropecten pectinatus* Sladen, 1883  
*Astropecten pedicellaris* Fisher, 1913a  
*Astropecten productus* Fisher, 1906b  
*Astropecten pusillulus* Fisher, 1906b  
*Astropecten sulcatus* Ludwig, 1905  
*Astropecten tenellus* Fisher, 1913a  
*Astropecten vappa inaequalis* Fisher, 1919a  
*Bathybiaster robustus* (Verrill, 1884)  
*Ctenophoraster diploctenus* Fisher, 1913a  
*Ctenophoraster hawaiiensis* Fisher, 1906b  
*Ctenophoraster marquesensis* Marsh, 1974  
*Ctenopleura astropectinides* Fisher, 1913a  
*Dipsacaster anoplus* Fisher, 1910c  
*Dipsacaster antillensis* Halpern, 1968  
*Dipsacaster borealis* Fisher, 1910c  
*Dipsacaster diaphorus* Fisher, 1913a  
*Dipsacaster eximius* Fisher, 1905  
*Dipsacaster imperialis* Fisher, 1917b  
*Dipsacaster laetmophilus* Fisher, 1910c  
*Dipsacaster nesiotis* Fisher, 1906b  
*Dytaster demonstrans* Ludwig, 1905  
*Dytaster gilberti* Fisher, 1905  
*Dytaster grandis grandis* (Verrill, 1884)  
*Koremaster evaulus* (Fisher, 1913a)  
*Koremaster evaulus spiculatus* Fisher, 1919a  
*Leptychaster anomalus* Fisher, 1906a  
*Leptychaster inermis* (Ludwig, 1905)  
*Leptychaster pacificus* Fisher, 1906a  
*Leptychaster propinquus* Fisher, 1910c  
*Patagiaster nuttingi* Fisher, 1906b  
*Patagiaster sphaerioplax* Fisher, 1913a  
*Persephonaster anchistus* Fisher, 1913a  
*Persephonaster cingulatus* (Fisher, 1906b)  
*Persephonaster euryactis* Fisher, 1913a  
*Persephonaster euryactis brevispinus* Fisher, 1919a  
*Persephonaster habrogenys* Fisher, 1913a  
*Persephonaster luzonicus* Fisher, 1913a  
*Persephonaster monostoechus* Fisher, 1913a  
*Persephonaster multicinctus* Fisher, 1913a  
*Persephonaster oedioplax* Fisher, 1913a  
*Persephonaster suluensis* Fisher, 1913a  
*Persephonaster tenuis* Fisher, 1913a  
*Plutonaster agassizi* (Verrill, 1880b)

*Plutonaster sirius* A.H. Clark, 1917c  
*Psilaster abyssicola* (Ludwig, 1905)  
*Psilaster andromeda florum* (Verrill, 1878)  
*Psilaster armatus* Ludwig, 1905  
*Psilaster attenuatus* Fisher, 1906b  
*Psilaster gotoi* Fisher, 1913a  
*Psilaster pectinatus* (Fisher, 1905)  
*Psilaster robustus* Fisher, 1913a  
*Psilaster sladeni* Ludwig, 1905  
*Tethyaster aulophora* (Fisher, 1911d)  
*Tethyaster canaliculatus* (A.H. Clark, 1916c)  
*Tethyaster grandis* (Verrill, 1899)  
*Thrissacanthias penicillatus* (Fisher, 1905)  
*Tritonaster craspedotus* Fisher, 1906b  
*Tritonaster evorus* Fisher, 1913a  
*Trophodiscus almus* Fisher, 1917c

## Family RADIASTERIDAE

*Gephyreaster swifti* (Fisher, 1905)  
*Radiaster notabilis* (Fisher, 1913a)

## Family PORCELLANASTERIDAE

*Benthogenia cribellosa* Fisher, 1911d  
*Eremicaster pacificus* (Ludwig, 1905)  
*Eremicaster tenebrarius* (Fisher, 1905)  
*Eremicaster vicinus* (Ludwig, 1907)  
*Eremicaster vicinus* var. *inermis* (Ludwig, 1907)  
*Eremicaster waltherii* (Ludwig, 1905)  
*Hyphalaster moseri* Ludwig, 1905  
*Porcellanaster nudus* (Ludwig, 1907)  
*Porcellanaster semimarginalis* (Ludwig, 1905)  
*Sidonaster psilonotus* Fisher, 1913a  
*Styracaster monacanthus* Ludwig, 1907  
*Styracaster paucispinus* Ludwig, 1907  
*Thoracaster magnus* Ludwig, 1907

## Family GONIOPECTINIDAE

*Ctenodiscus orientalis* Fisher, 1913a  
*Goniopecten asiaticus* Fisher, 1913a  
*Prionaster analogus* Fisher, 1913a  
*Prionaster elegans* Verrill, 1899  
*Prionaster gracilis* Fisher, 1913a  
*Prionaster megaloplax* Fisher, 1913a

## Order NOTOMYOTIDA

## Family BENTHOPECTINIDAE

*Benthopecten acanthonotus* Fisher, 1905  
*Benthopecten claviger* Fisher, 1910c  
*Benthopecten cognatus* (Ludwig, 1905)  
*Benthopecten moluccanus* Fisher, 1913c  
*Benthopecten mutabilis* Fisher, 1910c  
*Benthopecten pectinifer* (Ludwig, 1905)  
*Benthopecten polyctenius* Fisher, 1913c  
*Benthopecten spinosus* Verrill, 1884  
*Benthopecten spinuliger* (Ludwig, 1905)  
*Benthopecten styracius* Fisher, 1913c  
*Cheiraster (Christopheraster) blakei* A.M. Clark, 1981  
*Cheiraster (Cheiraster) diomedea* Fisher, 1917b

*Cheiraster dispar* (Verrill, 1915)  
*Cheiraster enoplus* Verrill, 1915  
*Cheiraster gracilis* (Verrill, 1915)  
*Cheiraster (Christopheraster) horridus* Fisher, 1906b  
*Cheiraster (Cheiraster) inops* Fisher, 1906b  
*Cheiraster (Cheiraster) ludwigi* Fisher, 1913c  
*Cheiraster mixtus* (Verrill, 1915)  
*Cheiraster (Cheiraster) planus* Verrill, 1915  
*Cheiraster (Luidiaster) robustus* (A.H. Clark, 1917c)  
*Cheiraster (Cheiraster) sepius* (Verrill, 1885)  
*Cheiraster (Cheiraster) snyderi* Fisher, 1906b  
*Cheiraster (Cheiraster) triplacanthus* Fisher, 1913c  
*Myonotus intermedius* (Fisher, 1910c)  
*Nearchaster aciculosus* (Fisher, 1910c)  
*Nearchaster insignis* (A.H. Clark, 1916c)  
*Nearchaster pedicellaris* (Fisher, 1910c)  
*Nearchaster variabilis* (Fisher, 1910c)  
*Pectinaster agassizi* (Ludwig, 1905)  
*Pectinaster agassizi evoplus* (Fisher, 1910c)  
*Pectinaster mimicus hylacanthus* (Fisher, 1913c)  
*Pectinaster mimicus palawanensis* Fisher, 1919a

## Order VALVATIDA

## Family ODONTASTERIDAE

*Acodontaster propinquus* (A.H. Clark, 1917a)  
*Odontaster crassus* Fisher, 1905  
*Odontaster hispidus* Verrill, 1880b  
*Odontaster robustus* Verrill, 1899  
*Odontaster setosus* Verrill, 1899

## Family GANERIIDAE

*Aleutiaster schefferi* A.H. Clark, 1939b  
*Hyalinothrix millespina* Fisher, 1911b  
*Perknaster sladeni georgianus* Fisher, 1940  
*Tarachaster tenuis* Fisher, 1913c

## Family ASTERINIDAE

*Anseropoda antarctica* Fisher, 1940  
*Anseropoda insignis* Fisher, 1906b  
*Anseropoda macropora* Fisher, 1913c  
*Asterina corallicola* Marsh, 1977  
*Asterina coronata euerces* (Fisher, 1917b)  
*Asterina orthodon* Fisher, 1922b  
*Asterinopsis pedicellaris* (Fisher, 1913c)  
*Mirastrella biradialis* Fisher, 1940  
*Nepanthia variabilis* H.L. Clark, 1938  
*Paranepanthia platydisca* (Fisher, 1913c)  
*Paxillasterina pompom* A.M. Clark, 1983  
*Pseudonepanthia gotoi* A.H. Clark, 1916a  
*Tremaster mirabilis* Verrill, 1879a

## Family PORANIIDAE

*Chondraster grandis* (Verrill, 1878)  
*Porania pulvillus insignis* Verrill, 1895  
*Poraniomorpha abyssicola* (Verrill, 1895)  
*Poraniomorpha spinulosa* (Verrill, 1879a)  
*Poraniopsis inflata flexilis* Fisher, 1910d  
*Poraniopsis japonica* Fisher, 1939

*Poraniopsis mira* (Ludwig, 1905) (junior homonym of  
*Poraniopsis mira* (de Loriol, 1904))

Family GONIASTERIDAE

*Anthenoides epixanthus* (Fisher, 1906b)  
*Anthenoides granulatus* Fisher, 1913a  
*Anthenoides lithosorus* Fisher, 1913a  
*Anthenoides rugulosus* Fisher, 1913a  
*Apollonaster yucatanensis* Halpern, 1970b  
*Astroceramus callimorphus* Fisher, 1906b  
*Astroceramus lionotus* Fisher, 1913a  
*Astroceramus sphaerostictus* Fisher, 1913a  
*Astrothauma euphyllacteam* Fisher, 1913a  
*Atelorias anacanthus* Fisher, 1911b  
*Calliaster corynetes* Fisher, 1913a  
*Calliaster pedicellaris* Fisher, 1906b  
*Calliderma spectabilis* Fisher, 1906b  
*Ceramaster arcticus* (Verrill, 1909a)  
*Ceramaster clarki* Fisher, 1910c  
*Ceramaster leptoceramus* (Fisher, 1905)  
*Ceramaster simplex* (Verrill, 1895)  
*Ceramaster smithi* Fisher, 1913a  
*Circeaster americanus* (A.H. Clark, 1916b)  
*Cladaster analogus* Fisher, 1940  
*Cladaster rudis* Verrill, 1899  
*Cladaster validus* Fisher, 1910c  
*Cryptopeltaster lepidonotus* Fisher, 1905  
*Diplasiaster productus* (A.H. Clark, 1917b)  
*Evoplosoma forcipifera* Fisher, 1906b  
*Evoplosoma virgo* Downey, 1982  
*Fisheraster microceramus* (Fisher, 1913a)  
*Floriaster maya* Downey, 1980  
*Gilbertaster anacanthus* Fisher, 1906b  
*Hippasteria californica* Fisher, 1905  
*Hippasteria caribaea* Verrill, 1899  
*Hippasteria heathi* Fisher, 1905  
*Hippasteria leiopelta* Fisher, 1910c  
*Hippasteria leiopelta armata* Fisher, 1911a  
*Hippasteria kurilensis* Fisher, 1911a  
*Iconaster perierctus* Fisher, 1913a  
*Lithosoma actinometra* Fisher, 1911d  
*Lithosoma penichra* Fisher, 1917b  
*Litonotaster africanus* Halpern, 1969  
*Litonotaster rotundigranulum* Halpern, 1969  
*Litonotaster tumidus* H.L. Clark, 1920  
*Mediaster aequalis* Stimpson, 1857  
*Mediaster bairdi* (Verrill, 1882)  
*Mediaster elegans* Ludwig, 1905  
*Mediaster ornatus* Fisher, 1906b  
*Mediaster tenellus* Fisher, 1905  
*Mediaster transfuga* Ludwig, 1905  
*Nereidaster bowersi* Fisher, 1906b  
*Nymphaster arthrocnemis* Fisher, 1913a  
*Nymphaster atopus* Fisher, 1913a  
*Nymphaster diomedea* Ludwig, 1905

*Nymphaster dyscritus* Fisher, 1913a  
*Nymphaster euryplax* Fisher, 1913a  
*Nymphaster habrotatus* Fisher, 1913a  
*Nymphaster leptodomus* Fisher, 1913a  
*Nymphaster meseres* Fisher, 1913a  
*Nymphaster moluccanus* Fisher, 1913a  
*Nymphaster mucronatus* Fisher, 1913a  
*Paragonaster ctenipes hypacanthus* Fisher, 1913a  
*Paragonaster formosus* (Verrill, 1884)  
*Paragonaster stenostichus* Fisher, 1913a  
*Peltaster cycloplax* Fisher, 1913a  
*Peltaster hebes* Verrill, 1899  
*Peltaster planus* (Verrill, 1895)  
*Pergamaster synaptorus* Fisher, 1940  
*Perissogonaster insignis* Fisher, 1913a  
*Pillsburiaster ernesti* (Ludwig, 1905)  
*Pillsburiaster geographicus* Halpern, 1970b  
*Plinthaster ceramoideus* Fisher, 1906b  
*Plinthaster comptus* (Verrill, 1899)  
*Plinthaster nitidus* (Verrill, 1899)  
*Pontioceramus grandis* Fisher, 1911d  
*Pseudarchaster concinnus* Verrill, 1894  
*Pseudarchaster dissonus* Fisher, 1910c  
*Pseudarchaster granuliferus* Verrill, 1899  
*Pseudarchaster intermedius* var. *insignis* Verrill, 1895  
*Pseudarchaster jordani* Fisher, 1906b  
*Pseudarchaster myobrachiis* Fisher, 1906b  
*Pseudarchaster oligoporus* Fisher, 1913a  
*Pseudarchaster ordinatus* Verrill, 1899  
*Pseudarchaster parelii alascensis* Fisher, 1905  
*Pseudarchaster pusillus* Fisher, 1905  
*Pseudarchaster verrilli* Ludwig, 1905  
*Rosaster cassidatus* Macan, 1938  
*Rosaster mamillatus* Fisher, 1913a  
*Rosaster mimicus* Fisher, 1913a  
*Rosaster nannus* Fisher, 1913a  
*Sphaeriodiscus ammophilus* (Fisher, 1906b)  
*Sphaeriodiscus scotocryptus* Fisher, 1913a  
*Tosia* (*Ceramaster*) *micropelta* Fisher, 1906b

Family OPHIDIASTERIDAE

*Andora* (*Andora*) *bruuni* Rowe, 1977b  
*Copidaster lymani* A.H. Clark, 1948b  
*Dactylosaster cylindricus pacificus* Fisher, 1925  
*Dissogenes styracia* Fisher, 1913c  
*Ferdina glyptodisca* Fisher, 1913c  
*Ferdina sadhensis* Marsh and Campbell, 1991  
*Fromia eusticha* Fisher, 1913c  
*Fromia hemioplax* Fisher, 1913c  
*Heteronardoa diamantinae* Rowe, 1976  
*Leiaster analogus* Fisher, 1913c  
*Leiaster callipeplus* Fisher, 1906b  
*Linckia bullisi* Moore, 1960  
*Linckia perplexus* (A.H. Clark, 1954)  
*Narcissia gracilis* A.H. Clark, 1916c



- Narcissia gracilis malpeloensis* Downey, 1975  
*Nardoa tumulosa* Fisher, 1917b  
*Ophidiaster alexandri* Verrill, 1915  
*Ophidiaster bayeri* A.H. Clark, 1948b  
*Ophidiaster bullisi* (Downey, 1970a)  
*Ophidiaster lorioli* Fisher, 1906b  
*Ophidiaster rhabdotus* Fisher, 1906b  
*Ophidiaster squameus* Fisher, 1906b  
*Ophidiaster tenellus* Fisher, 1906b  
*Ophidiaster triseriatus* Fisher, 1906b  
*Ophidiaster trychnus* Fisher, 1913c  
*Paraferdina sohariae* Marsh and Price, 1991  
*Tamaria halperni* Downey, 1971b  
*Tamaria passiflora* Downey, 1971b  
*Tamaria scleroderma* (Fisher, 1906b)  
*Tamaria stria* Downey, 1975
- Family ASTEROPSEIDAE  
*Marginaster lepidus* (Verrill, 1914b)  
*Marginaster paucispinus* Fisher, 1913c  
*Poraniella regularis* Verrill, 1914b
- Family ASTERODISCIDIDAE  
*Asterodiscides helonotus* (Fisher, 1913c)  
*Asterodiscides lacrimulus* Rowe, 1977a  
*Asterodiscides tuberculosus* (Fisher, 1906b)  
*Paulia aenigma* (Ludwig, 1905)  
*Paulia horrida* var. *galapagensis* Ludwig, 1905
- Family OREASTERIDAE  
*Anthenea mexicana* A.H. Clark, 1916c  
*Halityle regularis* Fisher, 1913c  
*Pentaceropsis tyloderma* Fisher, 1913c  
*Pentaceros hawaiiensis* Fisher, 1906b
- Family ACANTHASTERIDAE  
*Acanthaster brevispinus* Fisher, 1917b
- Order VELATIDA
- Family SOLASTERIDAE  
*Crossaster helianthus* Verrill, 1894  
*Crossaster scotophilus* (Fisher, 1913c)  
*Heterozonias alternatus* (Fisher, 1906a)  
*Lophaster densus* Fisher, 1940  
*Lophaster furcilliger* Fisher, 1905  
*Lophaster furcilliger vexator* Fisher, 1910d  
*Lophaster suluensis* Fisher, 1913c  
*Lophaster validus* (Ludwig, 1905)  
*Lophaster verrilli* A.H. Clark, 1938  
*Solaster abyssicola* Verrill, 1885  
*Solaster benedicti* Verrill, 1894  
*Solaster borealis* (Fisher, 1906a)  
*Solaster caribbaeus* Verrill, 1915  
*Solaster exiguus* Fisher, 1910d  
*Solaster hypothrissus* Fisher, 1910d  
*Solaster japonicus* Fisher, 1911a  
*Solaster notophrynus* Downey, 1971a  
*Solaster syrtensis* Verrill, 1894  
*Solaster tropicus* Fisher, 1913c
- Xenorias polyctenius* (Fisher, 1913c)
- Family PTERASTERIDAE  
*Benthaster eritimus* Fisher, 1906b  
*Diplopteraster multipes patagiatus* Fisher, 1916b  
*Hymenaster bartschi* Fisher, 1916b  
*Hymenaster blegyadi* Madsen, 1956  
*Hymenaster cremnodes* H.L. Clark, 1920  
*Hymenaster gracilis* Ludwig, 1905  
*Hymenaster kieri* Downey, 1979b  
*Hymenaster koehleri* Fisher, 1910a  
*Hymenaster pentagonalis* Fisher, 1906b  
*Hymenaster perissonotus* Fisher, 1910a  
*Hymenaster platyacanthus* Ludwig, 1905  
*Hymenaster purpureus* Ludwig, 1905  
*Hymenaster quadrispinosus* Fisher, 1905  
*Hymenaster regalis* Verrill, 1895  
*Hymenaster reticulatus* Sibuet, 1976  
*Hymenaster rhodopeplus* Fisher, 1916b  
*Hymenaster trias* H.L. Clark, 1920  
*Hymenaster violaceus* Ludwig, 1905  
*Hymenasterides zenognathus* Fisher, 1911d  
*Pteraster abyssorum* (Verrill, 1895)  
*Pteraster acicula* (Downey, 1970c)  
*Pteraster corynetes* Fisher, 1916b  
*Pteraster coscinopeplus* Fisher, 1910a  
*Pteraster (Retaster) diaphanus* Ludwig, 1905  
*Pteraster hexactis* Verrill, 1894  
*Pteraster jordani* Fisher, 1905  
*Pteraster marsippus* Fisher, 1910a  
*Pteraster obesus myonotus* Fisher, 1916b  
*Pteraster reticulatus* Fisher, 1906b  
*Pteraster temnochiton* Fisher, 1910a  
*Pteraster tesselatus arcuatus* Fisher, 1911a  
*Pteraster trigonodon* Fisher, 1910a
- Family MYXASTERIDAE  
*Asthenactis fisheri* Alton, 1966  
*Asthenactis papyraceus* Fisher, 1906b  
*Myxaster medusa* (Fisher, 1913c)  
*Pythonaster atlantidis* A.H. Clark, 1948a  
*Pythonaster pacificus* Downey, 1979a
- Family KORETHRASTERIDAE  
*Peribolaster biserialis* Fisher, 1905
- Order SPINULOSIDA
- Family ECHINASTERIDAE  
*Echinaster graminicola* Campbell and Turner, 1984  
*Echinaster guyanensis* A.M. Clark, 1987  
*Echinaster parvispinus* A.H. Clark, 1916c  
*Echinaster paucispinus* A.M. Clark, 1987  
*Echinaster sepositus madseni* Clark and Tortonese, 1986  
*Echinaster stereosomus* Fisher, 1913b  
*Henricia arctica* Verrill, 1914a  
*Henricia arcystata* Fisher, 1917b  
*Henricia aspera* Fisher, 1906a  
*Henricia asthenactis* Fisher, 1910d

*Henricia clarki* Fisher, 1910d  
*Henricia downeyae* A.M. Clark, 1987  
*Henricia gracilis* (Ludwig, 1905)  
*Henricia leviuscula* (Stimpson, 1857)  
*Henricia leviuscula annectens* Fisher, 1910d  
*Henricia leviuscula dyscrita* Fisher, 1911a  
*Henricia leviuscula multispina* Fisher, 1910d  
*Henricia lisa* A.H. Clark, 1949  
*Henricia longispina* Fisher, 1910d  
*Henricia longispina aleutica* Fisher, 1911a  
*Henricia microplax* Fisher, 1917b  
*Henricia microspina* Verrill, 1915  
*Henricia nana* (Ludwig, 1905)  
*Henricia pauperrima* Fisher, 1906b  
*Henricia polyacantha* Fisher, 1906a  
*Henricia robusta* Fisher, 1906b  
*Henricia seminuda* (A.H. Clark, 1916c)  
*Odontohenricia fisheri* Rowe and Albertson, 1988  
*Odontohenricia hayashii* Rowe and Albertson, 1988  
*Rhopiella koehleri* Fisher, 1940

## Order FORCIPULATIDA

## Family ZOROASTERIDAE

*Bythiolophus acanthinus* Fisher, 1916b  
*Cnemidaster nudus* (Ludwig, 1905)  
*Doraster constellatus* Downey, 1970b  
*Doraster qawashqari* Moyano and Larrain, 1976  
*Myxoderma platyacanthum* (H.L. Clark, 1913)  
*Myxoderma platyacanthum rhomaleum* Fisher, 1919b  
*Myxoderma sacculatum* (Fisher, 1905)  
*Myxoderma sacculatum ectenes* Fisher, 1919b  
*Zoroaster actinocles* Fisher, 1919b  
*Zoroaster carinatus philippinensis* Fisher, 1916b  
*Zoroaster diomedaeae* Verrill, 1884  
*Zoroaster evermanni* (Fisher, 1905)  
*Zoroaster evermanni mordax* Fisher, 1919b  
*Zoroaster hirsutus* Ludwig, 1905  
*Zoroaster longispinus* Ludwig, 1905  
*Zoroaster magnificus* Ludwig, 1905  
*Zoroaster microporus* Fisher, 1916b  
*Zoroaster ophiactis* Fisher, 1916b  
*Zoroaster ophiurus* Fisher, 1905  
*Zoroaster perarmatus* H.L. Clark, 1920  
*Zoroaster spinulosus* Fisher, 1906b

## Family NEOMORPHASTERIDAE

*Neomorphaster forcipatus* Verrill, 1894

## Family ASTERIIDAE

*Allostichaster hartii* (Rathbun, 1879)  
*Allostichaster hebes* (Verrill, 1915)  
*Anasterias rugispina* (Stimpson, 1862)  
*Anasterias rupicola* (Verrill, 1876)  
*Aphanasterias pycnopodia* Fisher, 1923b  
*Asterias amurensis* forma *anomala* (Verrill, 1909a)  
*Asterias arenicola* Stimpson, 1862  
*Asterias rathbuni* var. *nortonensis* (Verrill, 1909a)

*Astrometis sertulifera* (Xantus, 1861)  
*Coscinasterias acutispina* (Stimpson, 1862)  
*Diplasterias octoradiata* (Koehler, 1914) (junior homonym of *Diplasterias octoradiata* (Studer, 1885))  
*Distolasterias elegans* Djakonov, 1931  
*Distolasterias hypacantha* Fisher, 1917b  
*Distolasterias robusta* (Ludwig, 1905)  
*Evasterias echinosoma* Fisher, 1926b  
*Evasterias troscheli* (Stimpson, 1862)  
*Leptasterias acervata* (Stimpson, 1862)  
*Leptasterias aequalis* (Stimpson, 1862)  
*Leptasterias alaskensis asiatica* Fisher, 1930  
*Leptasterias alaskensis multispina* Fisher, 1930  
*Leptasterias aleutica* Fisher, 1930  
*Leptasterias arctica* Murdoch, 1885  
*Leptasterias asteira* Fisher, 1930  
*Leptasterias austera* (Verrill, 1895)  
*Leptasterias bartletti* A.H. Clark, 1940  
*Leptasterias coei truculenta* Fisher, 1930  
*Leptasterias compta* (Stimpson, 1862)  
*Leptasterias groenlandica* forma *cribraria* (Stimpson, 1862)  
*Leptasterias hexactis* (Stimpson, 1862)  
*Leptasterias hispidella* Verrill, 1895  
*Leptasterias hylodes* Fisher, 1930  
*Leptasterias leptodoma* Fisher, 1930  
*Leptasterias littoralis* (Stimpson, 1853)  
*Leptasterias ochotensis* (Brandt, 1851)  
*Leptasterias polaris acervata* forma *polythela* (Verrill, 1909a)  
*Leptasterias polaris katherinae* (Gray, 1840)  
*Leptasterias pusilla* Fisher, 1930  
*Leptasterias stolacantha* Fisher, 1930  
*Leptasterias tenera* (Stimpson, 1862)  
*Lysastrosoma anthosticta* Fisher, 1922a  
*Marthasterias madeirensis* (Stimpson, 1862)  
*Pisaster brevispinus* (Stimpson, 1857)  
*Pisaster brevispinus* forma *paucispinus* (Stimpson, 1862)  
*Pisaster fissispina* (Stimpson, 1862)  
*Pisaster giganteus* (Stimpson, 1857)  
*Pisaster giganteus capitatus* (Stimpson, 1862)  
*Pisaster lutkeni* (Stimpson, 1862)  
*Pisaster ochraceus* forma *confertus* (Stimpson, 1862)  
*Pisaster ochraceus segnis* Fisher, 1926a  
*Psalidaster mordax* Fisher, 1940  
*Sclerasterias alexandri* (Ludwig, 1905)  
*Sclerasterias euplecta* (Fisher, 1906b)  
*Sclerasterias heteropaes* Fisher, 1924a  
*Sclerasterias tanneri* (Verrill, 1880b)  
*Smilasterias triremis* (Sladen, 1889)  
*Stephanasterias albus* (Stimpson, 1853)  
*Stylasterias paschae* H.L. Clark, 1920



*Tarsastrocles verrilli* (Fisher, 1906b)  
*Uniophora globifera* Gray, 1840  
*Urasterias enopla* (Verrill, 1895)

Family PEDICELLASTERIDAE  
*Ampheraster alaminos* Downey, 1971c  
*Ampheraster atactus* Fisher, 1928a  
*Ampheraster chiropilus* Fisher, 1928a  
*Ampheraster distichopus* (Fisher, 1917b)  
*Ampheraster hyperoncus* (H.L. Clark, 1913)  
*Ampheraster marianus* (Ludwig, 1905)  
*Anteliaster australis* Fisher, 1940  
*Anteliaster coscinactis* Fisher, 1923a  
*Anteliaster coscinactis megatretus* Fisher, 1928a  
*Anteliaster microgenys* Fisher, 1928a  
*Anteliaster microgenys nannodes* Fisher, 1928a  
*Hydrasterias diomedea* Ludwig, 1905  
*Hydrasterias improvisa* (Ludwig, 1905)  
*Pedicellaster magister* Fisher, 1923a  
*Pedicellaster magister megalabis* Fisher, 1928a  
*Pedicellaster magister orientalis* Fisher, 1928a  
*Peranaster chirophorus* (Fisher, 1917b)  
*Tarsaster alaskanus* Fisher, 1928a  
*Tarsaster cocosanus* (Ludwig, 1905)  
*Tarsaster galapagensis* (Ludwig, 1905)

Family LABIDIASTERIDAE  
*Coronaster briareus* (Verrill, 1882)  
*Coronaster eclipses* Fisher, 1925  
*Coronaster halicepus* Fisher, 1917a  
*Coronaster marchenus* Ziesenhenné, 1942  
*Rathbunaster californicus* Fisher, 1906a

Family HELIASTERIDAE  
*Heliaster kubiniji* Xantus, 1861  
*Heliaster microbrachia* Xantus, 1861  
*Heliaster morrisoni* A.H. Clark, 1946

Order BRISINGIDA  
 Family BRISINGIDAE  
*Astrolirus panamensis* (Ludwig, 1905)  
*Astrostephane acanthogenys* (Fisher, 1916b)  
*Astrostephane moluccana* (Fisher, 1916b)  
*Brisinga alberti* Fisher, 1906b  
*Brisinga analoga* (Fisher, 1919a)  
*Brisinga costata* Verrill, 1884  
*Brisinga eucoryne* Fisher, 1916b  
*Brisinga evermanni* Fisher, 1906b  
*Brisinga panopla* Fisher, 1906b  
*Brisinga synaptoma* (Fisher, 1917d)  
*Brisinga trachydisca* Fisher, 1916b  
*Brisinga variispina* Ludwig, 1905  
*Brisingella exilis* (Fisher, 1905)  
*Brisingella fragilis* (Fisher, 1906b)  
*Brisingella monacantha* H.L. Clark, 1920  
*Brisingella pannychia* Fisher, 1928a  
*Brisingella pusilla* Fisher, 1917d  
*Brisingella tenella* (Ludwig, 1905)

*Brisingenes anchista* Fisher, 1919a  
*Brisingenes mimica* (Fisher, 1916b)  
*Brisingenes multicostata* (Verrill, 1894)  
*Midgardia xandaros* Downey, 1972  
*Novodinia americana* (Verrill, 1880a)  
*Novodinia antillensis* (A.H. Clark, 1934)  
*Novodinia magister* (Fisher, 1917b)  
*Novodinia pacifica* (Fisher, 1906b)  
*Novodinia penichra* (Fisher, 1916b)  
*Odinella nutrix* Fisher, 1940  
*Stegnobrisinga placoderma* (Fisher, 1916b)

Family FREYELLIDAE  
*Freyastera mexicana* (A.H. Clark, 1939a)  
*Freyella actinodetus* (Fisher, 1917d)  
*Freyella aspera* Verrill, 1894  
*Freyella brevispina* (H.L. Clark, 1920)  
*Freyella elegans* (Verrill, 1884)  
*Freyella insignis* Ludwig, 1905  
*Freyella microplax* (Fisher, 1917d)  
*Freyella microspina* Verrill, 1894  
*Freyella octoradiata* (H.L. Clark, 1920)  
*Freyella oligobrachia* (H.L. Clark, 1920)  
*Freyella pacifica* Ludwig, 1905  
*Freyella propinqua* Ludwig, 1905  
*Freyellaster fecundus* (Fisher, 1905)  
*Freyellaster scalaris* (A.H. Clark, 1916d)  
*Freyellaster spatulifer* (Fisher, 1916b)

**Annotated Alphabetic List of Asteroid Types  
 Deposited in the National Museum of Natural History**

*abyssicola*, *Plutonaster* Ludwig, 1905:30–35, pl. 3: figs. 13, 14; pl. 19: figs. 102–106.  
 Syntypes: USNM 34420 (1 alcohol), *Albatross* 3360.  
 USNM 34421 (1 alcohol), *Albatross* 3393.  
 USNM 34422 (1 alcohol), *Albatross* 3392.  
 = *Psilaster pectinatus* (Fisher, 1905). See Fisher (1911a:72–78).

*abyssicola*, *Rhegaster* Verrill, 1895:140.  
 Holotype: USNM 8140 (1 dry), *Albatross* 2226.  
 = *Poraniomorpha abyssicola* (Verrill, 1895). See Grieg (1907:42).

*abyssicola*, *Solaster* Verrill, 1885:152.  
 Syntypes: USNM E1592 (1 dry), *Albatross* 2222.  
 USNM E1595 (1 dry), *Albatross* 2222.  
 USNM E1561 (1 dry), *Albatross* station not recorded, Massachusetts, Martha's Vineyard; 1884.  
 USNM 38069 (2 alcohol), *Albatross* 2115.  
 USNM E38827 (1 dry), *Albatross* 2222.

*abyssorum*, *Lophopteraster* Verrill, 1895:203.  
 Syntype: USNM 8141 (1 alcohol), *Albatross* 2226.  
 Remarks: Although Verrill described two specimens from this station, only one could be found.  
 = *Pteraster abyssorum* (Verrill, 1895). See Fisher

- (1911a:344).  
*acanthinus*, *Bythiolophus* Fisher, 1916b:31. (Fisher, 1919a:485–487, pl. 135: figs. 1, 1a–c; pl. 139: figs. 1, 2.)  
 Holotype: USNM 37011 (1 alcohol), *Albatross* 5648.
- acanthogenys*, *Brisinga* Fisher, 1916b:33. (Fisher, 1919a:528–530, pl. 148: figs. 1–3; pl. 153: figs. 1, 1a–d.)  
 Holotype: USNM 37023 (1 alcohol), *Albatross* 5440.  
 = *Astrostephane acanthogenys* (Fisher, 1916). See Fisher (1917b:421).
- acanthonotus*, *Benthopecten* Fisher, 1905:299–300. (Fisher, 1911a:144–147, pl. 22: fig. 2; pl. 23: fig. 1.)  
 Holotype: USNM 22330 (1 alcohol), *Albatross* 4387.
- acervata*, *Asterias* Stimpson, 1862:271–272.  
 Syntypes: USNM 1365 (1 alcohol), Alaska, Bering Strait; 5–15 fm (9–27 m); North Pacific Exploring Expedition, W. Stimpson. Specimen deteriorated, reduced to ossicles, in poor condition.  
 USNM 1366 (1 dry), Alaska, Bering Strait; 5–15 fm (9–27 m); North Pacific Exploring Expedition, W. Stimpson.  
 USNM 1367 (1 dry), Alaska, Bering Strait; 5–15 fm (9–27 m); North Pacific Exploring Expedition, W. Stimpson.  
 = *Leptasterias polaris* (Müller and Troschel, 1842). See Clark and Downey (1992:441–442).
- acicula*, *Marsipaster* Downey, 1970c:309–311, fig. 1, A, B.  
 Holotype: USNM 18416 (1 dry), *Albatross* 2642.  
 Paratypes: USNM 10447 (2 dry), *Albatross* 2401.  
 = *Pteraster acicula* (Downey, 1970). See Downey (1973:79).
- aciculosus*, *Acantharchaster* Fisher, 1910c:550. (Fisher, 1911a:133–136, pl. 24: fig. 1; pl. 55: fig. 1.)  
 Holotype: USNM 27799 (1 alcohol), *Albatross* 4402, California, San Clemente Island, east point Northwest Harbor; 542–599 fm (991–1096 m); 8 April 1904.  
 Paratype: USNM 32149 (1 alcohol), *Albatross* 4381, California, vicinity of San Diego, south point North Coronado Island; 618–667 fm (1130–1220 m); 18 March 1904.  
 = *Nearchaster aciculosus* (Fisher, 1910). See Fisher (1911c:91).
- actinocles*, *Zoroaster* Fisher, 1919b:390–391. (Fisher, 1928a:37–40, pl. 13: figs. 2, 2a–c; pl. 18: fig. 1; pl. 20: fig. 1.)  
 Holotype: USNM 37039 (1 alcohol), *Albatross* 4765.
- actinodetus*, *Astrocles* Fisher, 1917d:430–431. (Fisher, 1928a:29–31, pl. 11: fig. 2.)  
 Holotype: USNM E1416 (1 alcohol), *Albatross* 2859.  
 = *Freyella actinodetus* (Fisher, 1917). See Downey (1986:43).
- actinometra*, *Lithosoma* Fisher, 1911d:422–424. (Fisher, 1919a:298–301, pl. 76: figs. 1, 3; pl. 84: fig. 2; pl. 85: fig. 2; pl. 93: figs. 3, 3a.)  
 Holotype: USNM 28658 (1 dry), *Albatross* 5272.
- acutispina*, *Asterias* Stimpson, 1862:262–263.  
 Syntypes: USNM 1231 (1 dry), Japan, Ousima; North Pacific Exploring Expedition, W. Stimpson.  
 USNM 1234 (1 alcohol), Japan, Ousima; North Pacific Exploring Expedition, W. Stimpson.
- Remarks: Stimpson reported four specimens in the USNM collections, but two cannot be found.  
 = *Coscinasterias acutispina* (Stimpson, 1862). See Fisher (1925:82–83).
- aenigma*, *Pauliella* Ludwig, 1905:151–156, pl. 12: figs. 58–60; pl. 23: fig. 133; pl. 24: fig. 138; pl. 25: fig. 144; pl. 26: fig. 145.  
 Syntype: USNM 34431 (1 alcohol), *Albatross* 3368. Specimen in fair condition, abactinal wall missing, some fragments.  
 = *Paulia horrida* Gray, 1840. See Döderlein (1936:318) and Rowe (1977a:210–211).
- aequalis*, *Asterias* Stimpson, 1862:273.  
 Holotype: USNM 1372 (1 dry), California, Monterey; A.S. Taylor.  
 Paratypes: USNM E43002 (2 dry), California, Monterey; A.S. Taylor.  
 = *Leptasterias aequalis* (Stimpson, 1862). See Verrill (1914a:128–130).
- aequalis*, *Mediaster* Stimpson, 1857:530–531, pl. 23: figs. 7–11.  
 Syntype: USNM 1977 (1 dry), California, near San Francisco; W. Stimpson.
- africana*, *Luidia* Sladen, 1889:256–258, pl. 44: figs. 1, 2; pl. 45: figs. 1, 2.  
 Syntype: USNM E15977 (1 alcohol), *Challenger*, station not recorded, South Africa, Simon's Bay, Cape of Good Hope; 1873–1876. Specimen received in an exchange from the British Museum (ex BMNH 90.5.7.271–290).  
 = *Luidia sarsi africana* Sladen, 1889. See Clark and Downey (1992:20).
- africanus*, *Litonotaster* Halpern, 1969:134–139, figs. 4, 5.  
 Holotype: USNM E10863 (1 alcohol), *Pillsbury* 266.
- agassizii*, *Archaster* Verrill, 1880b:403.  
 Syntypes: USNM 9746 (1 dry), *Fish Hawk* 879.  
 USNM 9434 (5 alcohol), *Fish Hawk* 880.  
 USNM 9435 (7 dry), *Fish Hawk* 881.  
 USNM 13012 (17 alcohol and 13 dry), *Fish Hawk* 891, 892, 893, and 894.  
 USNM 9436 (1 alcohol), *Fish Hawk* 892.  
 USNM 9437 (2 alcohol and 1 dry), *Fish Hawk* 894.  
 USNM 33309 (1 dry), *Fish Hawk* (station not recorded), Rhode Island, off Newport; USFC; 1880.  
 USNM 33314 (1 dry), *Fish Hawk* (station not recorded), Rhode Island, off Newport; USFC; 1880.  
 = *Plutonaster agassizii* (Verrill, 1880). See Verrill (1894:248–249).
- agassizii*, *Cheiraster* Ludwig, 1905:1–10, pl. 1: figs. 3, 4; pl. 2: figs. 5–12; pl. 16: figs. 81–84.  
 Syntypes: USNM 34311 (168 alcohol), *Albatross* 3392 and 3393. Ludwig reported a combined total of 340 specimens from sta. 3392 and 3393.  
 USNM 34316 (4 alcohol), *Albatross* 3392. Specimens in

- poor condition, deteriorated and reduced to ossicles.  
 USNM 34312 (168 alcohol), *Albatross* 3363. Ludwig reported only 5 specimens from this station.  
 USNM 34319 (2 alcohol), *Albatross* 3366. Specimens fragmented.  
 USNM 34315 (2 alcohol), *Albatross* 3353. Specimens in poor condition, reduced to ossicles.  
 USNM 34329 (6 alcohol), *Albatross* 3376.  
 USNM 34318 (1 alcohol), *Albatross* 3435.  
 USNM 34310 (124 alcohol), *Albatross* 3407.  
 USNM 34317 (2 alcohol), *Albatross* 3407.  
 USNM 34313 (4 alcohol), *Albatross* 3431. Specimens in poor condition, deteriorated, reduced to ossicles, some fragments.  
 USNM 34314 (5 alcohol), *Albatross* 3431. Ludwig reported 120 specimens from this station.  
 = *Pectinaster agassizi* (Ludwig, 1905). See Ludwig (1910:448-449).
- alaminos*, *Ampheraster* Downey, 1971c:52-53, fig. 1.  
 Holotype: USNM E11397 (1 dry), *Alaminos* 68-A-7, sta. 3C.  
 Paratypes: USNM E12426 (44 arms, 1 disc, dry), *Alaminos* 68-A-7, sta. 4E. The author cited an incorrect longitude, latitude, and depth for this station (1971c:52).  
 USNM E12427 (1 dry), *Alaminos* 68-A-7, sta. 4E. Same explanation as E12426.  
 USNM E12428 (9 dry), *Alaminos* 68-A-7, sta. 4A.  
 USNM E12430 (1 dry), *Oregon* 2574.
- alascensis*, *Pseudarchaster* Fisher, 1905:303. (Fisher, 1911a:185-187, pl. 31: figs. 3-5; pl. 57: fig. 6.)  
 Holotype: USNM 22334 (1 alcohol), *Albatross* 4236, Alaska, vicinity of Yes Bay, Behm Canal, Spacious Bay, Square Bay, East End; 147-205 fm (269-375 m); 8 July 1903.  
 = *Pseudarchaster parelii alascensis* Fisher, 1905. See Fisher (1911a:185-187).
- alaskanus*, *Tarsaster* Fisher, 1928a:78, pl. 30: figs. 4, 4a-d; pl. 36: fig. 3; pl. 37: fig. 4.  
 Holotype: USNM E1424 (1 alcohol), *Albatross* 4230, Alaska, vicinity of Naha Bay, Behm Canal, Indian Point; 108-240 fm (198-439 m); 7 July 1903.
- alberti*, *Brisinga* Fisher, 1906b:1111-1113, pl. 45: figs. 1, 2; pl. 46: figs. 2, 3; pl. 47: figs. 4, 4a; pl. 48: figs. 1, 1a-c.  
 Holotype: USNM 21192 (1 alcohol), *Albatross* 4177, Hawaii, vicinity of Niihau Island, Kawahioa Point; 319-451 fm (533-825 m); 12 August 1902.  
 Paratypes: USNM 31877 (1 alcohol), *Albatross* 4177, Hawaii, vicinity of Niihau Island, Kawahioa Point; 319-451 fm (533-825 m); 12 August 1902.  
 USNM E4528 (1 alcohol), *Albatross* 4177, Hawaii, vicinity of Niihau Island, Kawahioa Point; 319-451 fm (533-825 m); 12 August 1902.  
 USNM 31872 (1 alcohol), *Albatross* 3992.
- albulus*, *Asteracanthion* Stimpson, 1853:14, pl. 1: fig. 5.  
 Syntype: USNM 3377 (1 dry), New Brunswick, Grand Manan; W. Stimpson; summer 1852. Specimen is missing from the USNM collections.  
 = *Stephanasterias albulus* (Stimpson, 1853). See Verrill (1871:5).
- aleutica*, subsp., *Henricia longispina* Fisher, 1911a:300-301, pl. 77: fig. 2.  
 Holotype: USNM 27784 (1 alcohol), *Albatross* 4784.  
*aleutica*, *Leptasterias* Fisher, 1930:101-103, pl. 43: figs. 1, 1a-c; pl. 50: figs. 2, 3.  
 Holotype: USNM E1495 (1 dry), *Albatross* station not recorded; Alaska, Aleutian Islands, Adak Island; 2 July 1893.  
 Paratypes: USNM E42525 (9 dry), *Albatross* station not recorded; Alaska, Aleutian Islands, Adak Island; 2 July 1893.  
 USNM E42523 (2 dry), *Albatross* station not recorded; Alaska, Aleutian Islands, Agattu Island; 8 June 1906.  
 USNM E42524 (5 dry), *Albatross* station not recorded; Alaska, Aleutian Islands, Unalaska Island; 16 June 1890.  
 USNM E42526 (5 dry), *Albatross* station not recorded; Alaska, Aleutian Islands, Atka Island; June 1894.  
 USNM E43031 (15 dry), *Albatross* station not recorded; Alaska, Aleutian Islands, Atka Island; June 1894.  
 USNM E3989 (8 dry), Alaska, Aleutian Islands, Kiska Island, Kiska Harbor; W.H. Dall; 1873.  
 USNM E42527 (1 dry), Alaska, Aleutian Islands, Amchitka Island, Constantine Harbor; W.H. Dall; 1873.  
 USNM E42528 (2 dry), Alaska, Aleutian Islands, Amchitka Island, Constantine Harbor; W.H. Dall; 1873.
- Remarks: The number of specimens from some localities in the USNM collections differs from Fisher's published account. Fisher recorded 42 specimens, but there are 47 specimens boxed as paratypes. It is impossible to determine which specimens should be excluded from the type series.
- alexandri*, *Ophiaster* Verrill, 1915:91-92, pl. 13: figs. 3, 3a,b; pl. 25: fig. 2.  
 Paratypes: USNM 18511 (2 alcohol), *Albatross* 2416.  
 USNM E4306 (1 alcohol), Bahama (Florida Keys and West Indies) Expedition, sta. 57.  
 USNM E41469 (1 alcohol), Bahama (Florida Keys and West Indies) Expedition, sta. 56.  
 Remarks: Verrill photographed the type specimen (pl. 25: fig. 2) and provided radii measurements of 11 mm and 60 mm. All of the above mentioned specimens are significantly smaller than Verrill's holotype.
- alexandri*, *Stolasterias* Ludwig, 1905:221-228, pl. 32: figs. 190-193.  
 Syntypes: USNM 34331 (7 alcohol), *Albatross* 3389.  
 USNM E16055 (1 alcohol), *Albatross* 3389.  
 USNM 34325 (6 alcohol), *Albatross* 3391.  
 USNM 34332 (3 alcohol), *Albatross* 3397.  
 USNM 34412 (1 alcohol), *Albatross* 3379.  
 = *Sclerasterias alexandri* (Ludwig, 1905). See Fisher (1924a:3).



- almus*, *Trophodiscus* Fisher, 1917c:368–371, pls. 28–30.  
 Holotype: USNM 37029 (1 alcohol), *Albatross* 3644. The holotype is female and had 28 juveniles attached when Fisher described the species.  
 Paratype: USNM E42490 (1 alcohol), *Albatross* 3644. The paratype is male.  
 Remarks: In his published account, Fisher recorded the correct *Albatross* station, but an incorrect latitude and longitude. The correct locality is provided in the appendix.
- alternatus*, *Crossaster* Fisher, 1906a:131–134.  
 Holotype: USNM 21932 (1 dry), *Albatross* 2839.  
 Paratype: USNM 32054 (1 alcohol), *Albatross* 4400.  
 = *Heterozonias alternatus* (Fisher, 1906). See Fisher (1910b:172–173).
- americana*, *Brisinga* Verrill, 1880a:139–140.  
 Holotype: USNM 33038 (1 alcohol), Schooner *Addison Center*, sta. 553, Nova Scotia, off western part of Banquereau; 175 fm (320 m); Captain S. Peeples, Gloucester Fisheries; 1879. The type was described from 15 detached arms only, no disc.  
 = *Novodinia americana* (Verrill, 1880). See Dartnall et al. (1969:211).
- americanus*, *Archaster* Verrill, 1880b:402.  
 Syntypes: USNM 5242 (10 dry), *Fish Hawk* 865–868, 871, and 873–876.  
 USNM 9392 (3 juveniles in alcohol and 10 dry), *Fish Hawk* 871.  
 USNM 9393 (9 alcohol and 7 dry), *Fish Hawk* 873.  
 USNM 9394 (1 dry), *Fish Hawk* 877.  
 USNM 24518 (100+ dry), *Fish Hawk* 865, 866, 869, 872.  
 USNM 25149 (2 dry), *Fish Hawk* 865.  
 USNM 32200 (400+ alcohol), *Fish Hawk* 865, 866, 873.  
 USNM 33317 (1 dry), *Fish Hawk* (station not recorded), Rhode Island, off Newport; 1880.  
 USNM 33474 (2 dry), *Fish Hawk* 865–868, 871, and 873–876.  
 = *Astropecten americanus* (Verrill, 1880). See Verrill (1894:255).
- americanus*, *Lydiaster* A.H. Clark, 1916b:141–144.  
 Holotype: USNM 10872 (1 alcohol), *Albatross* 2395.  
 = *Circeaster americanus* (A.H. Clark, 1916). See Halpern (1970a:265–270).
- ammophilus*, *Pentagonaster* Fisher, 1906b:1051–1052, pl. 16: figs. 5, 5a; pl. 22: figs. 1, 2.  
 Holotype: USNM 21162 (1 alcohol), *Albatross* 3919, Hawaii, south coast of Oahu Island, Diamond Head Light; 220–257 fm (402–470 m); 6 May 1902.  
 Paratypes: USNM 31305 (1 alcohol), *Albatross* 4081.  
 USNM 31414 (2 alcohol), *Albatross* 4082.  
 USNM E4456 (1 dry), *Albatross* 4082.  
 USNM E9671 (1 alcohol), *Albatross* 4083.  
 = *Sphaeriodiscus ammophilus* (Fisher, 1906). See Fisher (1910b:171–172).
- anacanthus*, *Atelorias* Fisher, 1911d:424–425. (Fisher, 1919a:343–346, pl. 73: fig. 2; pl. 74: fig. 3; pl. 85: fig. 3; pl. 94: figs. 3, 3a,b.)  
 Holotype: USNM 28659 (1 alcohol), *Albatross* 5655.
- anacanthus*, *Gilbertaster* Fisher, 1906b:1063–1065, pl. 27: figs. 2, 2a–c.  
 Holotype: USNM 21168 (1 alcohol), *Albatross* 4041.
- analoga*, *Craterobrisinga* Fisher, 1919a:516–517, pl. 148: figs. 7, 8; pl. 149: fig. 1.  
 Holotype: USNM 37034 (1 alcohol), *Albatross* 5348.  
 = *Brisinga analoga* (Fisher, 1919). See Downey (1986:4–5).
- analogus*, *Cladaster* Fisher, 1940:123–125, fig. D, 2, pl. 4: figs. 1–3.  
 Holotype: USNM E9623 (2 partial arm fragments, alcohol), *William Scoresby* 86.
- analogus*, *Leiaster* Fisher, 1913c:215–216. (Fisher, 1919a:396–398, pl. 112: fig. 1.)  
 Holotype: USNM 32640 (1 alcohol), *Albatross* 5165.
- analogus*, *Prionaster* Fisher, 1913a:602–603. (Fisher, 1919a:50–54, pl. 3: fig. 1; pl. 6: fig. 2.)  
 Holotype: USNM 30507 (1 alcohol), *Albatross* 5123.
- anchista*, *Brisingenes* Fisher, 1919a:521–523, pl. 146; pl. 153: figs. 3, 3a–d; pl. 154: fig. 4.  
 Holotype: USNM 37033 (1 alcohol), *Albatross* 5648.
- anchistus*, *Persephonaster* Fisher, 1913a:614. (Fisher, 1919a:117–118, pl. 26: fig. 3; pl. 27: fig. 2; pl. 36: figs. 4, 4a–d.)  
 Holotype: USNM 30521 (1 alcohol), *Albatross* 5301.
- annectens*, subsp., *Henricia leviuscula* Fisher, 1910d:572. (Fisher, 1911a:291–293.)  
 Holotype: USNM 27781 (1 dry), *Albatross* 3095.
- anomala*, var., *Allasterias rathbuni* Verrill, 1909a:66, fig. 6.  
 Syntypes: USNM 3821 (2 dry), Alaska, Norton Sound, St. Michael; L.M. Turner; summer 1975.  
 = *Asterias amurensis* forma *anomala* (Verrill, 1909). See Fisher (1930:6–23).
- anomalous*, *Leptychaster* Fisher, 1906a:115–118.  
 Holotype: USNM 21926 (1 alcohol), *Albatross* 3310.
- anoplus*, *Dipsacaster* Fisher, 1910c:546–547. (Fisher, 1911a:97–100, pl. 16: figs. 1, 2.)  
 Holotype: USNM 24675 (1 alcohol), *Albatross* 3347.
- antarctica*, *Anseropoda* Fisher, 1940:149–150.  
 Paratype: USNM E10104 (1 alcohol), *Discovery* 170.
- anthosticta*, *Lysastrosoma* Fisher, 1922a:591–592, text-figs. 1, 2. (Fisher, 1924b:2–6, 6 text-figs., pls. 1, 2.)  
 Holotype: USNM E1429 (1 alcohol), Japan, Hokkaido, Mororan; J.O. Snyder; 1899.
- antillensis*, *Dipsacaster* Halpern, 1968:233–237, figs. 1–3.  
 Holotype: USNM E10854 (1 alcohol), *Gerda* 182.
- antillensis*, *Odinia* A.H. Clark, 1934:1–3, pl. 1.  
 Holotype: USNM E3266 (1 dry), *Caroline* 47, First Johnson-Smithsonian Deep-Sea Expedition.  
 = *Novodinia antillensis* (A.H. Clark, 1934). See Dartnall et al. (1969:211).
- arctica*, *Henricia* Verrill, 1914a:239–240, pl. 87: figs. 3–3c,

- text-fig. 13.  
 Holotype: USNM 12818 (1 dry), Alaska, Cape Lisburne; Henry D. Woolfe.  
 = *Henricia sanguinolenta* forma *tumida* Verrill, 1909b. See Fisher (1930:194–195).
- arctica*, *Leptasterias* Murdoch, 1885:159.  
 Syntypes: USNM 7625 (1 alcohol and 24 dry), Alaska, 10 miles west of Point Franklin; 13.5 fm (25 m); International Polar Expedition to Point Barrow, Alaska; 31 August 1883.  
 USNM E1920 (22 dry), Alaska, 10 miles west of Point Franklin; 13.5 fm (25 m); International Polar Expedition to Point Barrow, Alaska; 31 August 1883.  
 USNM 1356 (1 dry), Alaska, Bering Strait; J. Rodgers, North Pacific Exploring Expedition. This specimen was labeled as the type of *Asterias arctica* by Wm. Stimpson; however, he did not publish a description of the species. Murdoch examined and compared Stimpson's *arctica* to the Point Franklin specimens, determined all the specimens to be the same species, and used the name provided by Stimpson. In his report, Murdoch incorrectly gave Stimpson credit for authorship of the species.
- arctica*, *Tosia* Verrill, 1909a:63, text-figs. 8, 8a.  
 Holotype: USNM 33332 (1 dry), Russia, Commander Islands, Bering Island; N. Grebnitsky; 1889.  
 = *Ceramaster arcticus* (Verrill, 1909). See Fisher (1911a:219–221).
- arcuatus*, subsp., *Pteraster tessellatus* Fisher, 1911a:363, pl. 103: fig. 1.  
 Holotype: USNM 27794 (1 alcohol), *Albatross* 4551, California, Monterey Bay, Point Pinos Light House; 46–56 fm (84–102 m); 7 June 1904. Specimen in poor condition, deteriorated, reduced to ossicles.
- arcystata*, *Henricia* Fisher, 1917b:91. (Fisher, 1919a:439–440, pl. 119: fig. 4; pl. 120: fig. 2; pl. 132: fig. 4.)  
 Holotype: USNM 37007 (1 alcohol), *Albatross* 5536.
- arenicola*, *Asterias* Stimpson, 1862:268–269.  
 Holotype: USNM 1335 (1 dry), South Carolina and Georgia, on sandy shores.  
 = *Asterias forbesi* (Desor, 1848). See Verrill (1895:206–207).
- armata*, subsp., *Hippasteria leiopelta* Fisher, 1911a:230–231, pl. 121: fig. 2; pl. 122: figs. 1, 2.  
 Holotype: USNM 27887 (1 alcohol), *Albatross* 4804.  
 Paratypes: USNM 32108 (2 alcohol), *Albatross* 4803.  
 USNM 32109 (1 alcohol), *Albatross* 4804.  
 = *Hippasteria spinosa* forma *armata* Fisher, 1911. See Djakonov (1950:43–45).
- armata*, *Luidia* Ludwig, 1905:85.  
 Syntype: USNM 34446 (1 alcohol), *Albatross* 3369.
- armatus*, *Psilaster* Ludwig, 1905:59–63, pl. 21: figs. 118, 119; pl. 22: fig. 120.  
 Holotype: USNM 34409 (1 alcohol), *Albatross* 3424.
- arthrocnemis*, *Nymphaster* Fisher, 1913a:638–639. (Fisher, 1919a:277–280, pl. 64: fig. 1; pl. 65: fig. 4; pl. 68: fig. 1; pl. 69: fig. 1; pl. 92: figs. 9, 9a,b.)  
 Holotype: USNM 30547 (1 alcohol), *Albatross* 5648.
- articulata*, *Asterias* Say, 1825:141–142.  
 Neotype: USNM E12852 (1 dry), *Oregon* 5894. Neotype designated by Clark and Downey (1992:31–32).  
 = *Astropecten articulatus* (Say, 1825). See Müller and Troschel (1842:72).
- asiatica*, subsp., *Leptasterias alaskensis* Fisher, 1930:131–133, pl. 48: figs. 1, 1a–d; pl. 57: figs. 3, 4, 5.  
 Holotype: USNM E1502 (1 dry), *Albatross* shore station, Russia, Commander Islands, Bering Island, Nikolski; 15 June 1906.  
 Paratypes: USNM E3852 (26 dry), *Albatross* shore station, Russia, Commander Islands, Bering Island, Nikolski; 15 June 1906.  
 USNM E3854 (2 dry), *Albatross* shore station, Russia, Commander Islands, Bering Island, Nikolski; 15 June 1906.  
 USNM E3853 (5 dry), *Albatross* shore station, Russia, Commander Islands, Medny Island; 13 June 1906.  
 USNM E3855 (1 dry), *Albatross* shore station, Russia, Commander Islands, Medny Island; 13 June 1906.  
 USNM E16287 (28 alcohol), *Albatross* shore station, Russia, Commander Islands, Medny Island; 13 June 1906.  
 USNM E3856 (4 dry), *Albatross* shore station, Russia, Kuril Islands, Simushir Island, Milne Bay; 23 June 1906.  
 Remarks: In addition to the holotype, Fisher examined a total of 66 specimens. Although there are 66 paratypes in the USNM collections, the number of specimens per locality is not always in agreement with Fisher's published account.
- asiaticus*, *Goniopecten* Fisher, 1913a:601–602. (Fisher, 1919a:47–50, pl. 4: fig. 1; pl. 5: fig. 2; pl. 7: figs. 3, 3a–c; pl. 8: figs. 1, 1a.)  
 Holotype: USNM 30506 (1 alcohol), *Albatross* 5121.
- aspera*, *Freyella* Verrill, 1894:285–286.  
 Holotype: USNM 6301 (1 dry), *Albatross* 2097. Only the disc remains.  
 = *Freyella elegans* (Verrill, 1884). See Downey (1986:43–46).
- aspera*, *Henricia* Fisher, 1906a:127–129. (Fisher, 1911a:293–295, pl. 75: figs. 2, 5.)  
 Holotype: USNM 21930 (1 dry), *Albatross* 3052.
- asteira*, *Leptasterias* Fisher, 1930:103–105, pl. 43: figs. 3, 3a–e; pl. 50: figs. 4, 5.  
 Holotype: USNM E1496 (1 dry), Alaska, Aleutian Islands, Adak Island; shore.  
 Paratypes: USNM 23646 (1 dry), Alaska, Pribilof Islands, St. Paul Island; shore; W. Palmer.  
 USNM E10162 (3 alcohol), Alaska, Pribilof Islands, St. George Island; shore; G.D. Hanna; 1913.  
 USNM E18166 (19 dry), Alaska, Aleutian Islands, Adak Island; shore.



- USNM E42529 (11 dry), Alaska, Aleutian Islands, Adak Island; shore.
- USNM 6006 (4 dry), sta. 188–189 (1014–1015), Alaska, Aleutian Islands, Rat Islands, Kiska Island; 9–14 fm (16–26 m); W.H. Dall; 7 July 1873.
- USNM E3991 (1 dry), Alaska, Shumagin Islands, Nagai Island, Sanborn Harbor.
- USNM E3990 (1 dry), sta. 1373 (866), Alaska, Shumagin Islands, Unga Island, Round Island, Coal Harbor; W.H. Dall.
- asthenactis*, *Henricia* Fisher, 1910d:572. (Fisher, 1911a:297–298, pl. 77: fig. 1.)  
Holotype: USNM 27782 (1 alcohol), *Albatross* 4423, California, San Nicolas Island, east point; 216–339 fm (395–620 m); 13 April 1904.
- asthenosoma*, *Luidia* Fisher, 1906a:124–127. (Fisher, 1911a:116–119, pl. 20: fig. 1; pl. 21: fig. 1.)  
Holotype: USNM 21929 (1 alcohol), *Albatross* 3148.
- astropectinides*, *Ctenopleura* Fisher, 1913a:608–609. (Fisher, 1919a:91–95, pl. 16: figs. 1, 1a–c; pl. 17: fig. 3; pl. 18: fig. 2.)  
Holotype: USNM 30515 (1 alcohol), *Albatross* 5520.
- atactus*, *Ampheraster* Fisher, 1928a:86–88, pl. 31: fig. 4; pl. 32: figs. 3, 3a,b; pl. 38: fig. 5.  
Holotype: USNM E1426 (1 alcohol), *Albatross* 4341, California, vicinity of San Diego, south point of South Coronado Island; 188–323 fm (344–591 m); 11 March 1904.
- atlantidis*, *Pythonaster* A.H. Clark, 1948a:76–77.  
Holotype: USNM E7175 (1 alcohol), *Atlantis* 15.
- atopus*, *Nymphaster* Fisher, 1913a:640. (Fisher, 1919a:285–287, pl. 63: fig. 4; pl. 64: fig. 2; pl. 69: fig. 5; pl. 70: fig. 4; pl. 92: figs. 7, 7a.)  
Holotype: USNM 30550 (1 alcohol), *Albatross* 5428.
- attenuatus*, *Psilaster* Fisher, 1906b:1019–1022, pl. 3: figs. 3, 3a–d; pl. 7: fig. 4; pl. 8: fig. 1.  
Holotype: USNM 21149 (1 alcohol), *Albatross* 4095.  
Paratypes: USNM 31319 (1 alcohol), *Albatross* 3470.  
USNM 32219 (3 alcohol), *Albatross* 3470.  
USNM 31318 (1 alcohol), *Albatross* 3471.  
USNM 31317 (1 alcohol), *Albatross* 3474.  
USNM 32217 (18 alcohol), *Albatross* 3474. Specimens in poor condition, deteriorated, reduced to ossicles, few fragments.  
USNM 32220 (10+ alcohol), *Albatross* 3474.  
USNM 31316 (2 alcohol), *Albatross* 3475.  
USNM 32215 (19 alcohol), *Albatross* 3475. Specimens in poor condition, deteriorated, reduced to ossicles, few fragments.  
USNM 32216 (10+ alcohol), *Albatross* 3475.  
USNM 32218 (15+ alcohol), *Albatross* 3476. This station was incorrectly listed as *Albatross* 3876 by Fisher (1906b:1022).  
USNM 31388 (50+ alcohol), *Albatross* 3865.
- USNM E4452 (5 alcohol), *Albatross* 3865.  
USNM E9100 (38 dry), *Albatross* 3865.  
USNM 31363 (2 alcohol), *Albatross* 3866.  
USNM 31364 (5 alcohol), *Albatross* 3867.  
USNM 31372 (2 alcohol), *Albatross* 3867.  
USNM 31366 (22 alcohol), *Albatross* 3883.  
USNM 31373 (1 alcohol), *Albatross* 3884.  
USNM 31385 (2 alcohol), *Albatross* 3909, Hawaii, south coast of Oahu Island, Diamond Head Light; 308–322 fm (563–589 m); 5 May 1902. Specimens in poor condition, deteriorated, reduced to ossicles, few fragments.  
USNM 31389 (2 alcohol), *Albatross* 3910, Hawaii, south coast of Oahu Island, Diamond Head Light; 311–337 fm (569–616 m); 5 May 1902.  
USNM 31368 (2 alcohol), *Albatross* 3911, Hawaii, south coast of Oahu Island, Diamond Head Light; 334–337 fm (611–616 m); 5 May 1902.  
USNM 31390 (1 alcohol), *Albatross* 3911, Hawaii, south coast of Oahu Island, Diamond Head Light; 334–337 fm (611–616 m); 5 May 1902.  
USNM 31383 (1 alcohol), *Albatross* 3916, Hawaii, south coast of Oahu Island, Diamond Head Light; 299–330 fm (547–603 m); 6 May 1902.  
USNM 31310 (1 dry), *Albatross* 3917, Hawaii, south coast of Oahu Island, Diamond Head Light; 294–330 fm (538–604 m); 6 May 1902.  
USNM 31387 (1 dry), *Albatross* 3917, Hawaii, south coast of Oahu Island, Diamond Head Light; 294–330 fm (538–604 m); 6 May 1902. Specimen in poor condition, deteriorated, reduced to ossicles, few fragments.  
USNM 31602 (7 alcohol), *Albatross* 3917, Hawaii, south coast of Oahu Island, Diamond Head Light; 294–330 fm (538–604 m); 6 May 1902.  
USNM 31311 (2 dry), *Albatross* 3918, Hawaii, south coast of Oahu Island, Diamond Head Light; 257–294 fm (470–538 m); 6 May 1902.  
USNM 31386 (2 alcohol), *Albatross* 3918, Hawaii, south coast of Oahu Island, Diamond Head Light; 257–294 fm (470–538 m); 6 May 1902. Specimens in poor condition, deteriorated, reduced to ossicles, few fragments.  
USNM 31369 (1 alcohol), *Albatross* 4086.  
USNM 31415 (1 alcohol), *Albatross* 4086.  
USNM 31416 (3 alcohol), *Albatross* 4087.  
USNM 31349 (6 alcohol), *Albatross* 4088.  
USNM 31384 (1 alcohol), *Albatross* 4089.  
USNM 31365 (2 alcohol), *Albatross* 4095.  
USNM 31374 (2 alcohol), *Albatross* 4095.  
USNM 31303 (20+ alcohol), *Albatross* 4096.  
USNM 31370 (1 alcohol), *Albatross* station not recorded; Hawaii, approach to Pailolo Channel.
- aulophora*, *Anthosticte* Fisher, 1911d:417–420. (Fisher, 1911a:140–144, pl. 17: fig. 1; pl. 18: fig. 3; pl. 19: fig. 2; pl. 38: fig. 3; pl. 39: figs. 1, 1a–d.)

- Holotype: USNM 28656 (1 alcohol), *Albatross* 5420.  
= *Tethyaster aulophora* (Fisher, 1911). See A.M. Clark and A.H. Clark (1954:23).
- austera*, *Asterias* Verrill, 1895:209.  
Syntypes: USNM 21501 (1 alcohol), *Fish Hawk* 984.  
USNM 24644 (1 dry), Schooner *Peter D. Smith*, sta. 363, Massachusetts, western part of Georges Bank; Gloucester Fisheries.  
= *Leptasterias austera* (Verrill, 1895). See Fisher (1930:207).
- australis*, *Anteliaster* Fisher, 1940:215–217, figs. I, 1–1d, pl. 9: figs. 2, 3.  
Paratypes: USNM 10106 (2 alcohol), *William Scoresby* 85.  
The original specimen label reads WS-86, but is possibly in error.
- avicularia*, *Luidia* Fisher, 1913c:203. (Fisher, 1919a:172–175, pl. 43: fig. 1; pl. 44: fig. 2; pl. 46: figs. 2, 2a–c.)  
Holotype: USNM 32624 (1 alcohol), *Albatross* 5391.
- bairdi*, *Archaster* Verrill, 1882:139–141.  
Lectotype: USNM 9743 (1 alcohol), *Fish Hawk* 952.  
Specimen designated lectotype by Halpern (1970c: 53–56).  
Paralectotype: USNM E11298 (1 alcohol), *Fish Hawk* 952.  
= *Mediaster bairdi* (Verrill, 1882). See Verrill (1899:181).
- bartletti*, *Leptasterias* (*Hexasterias*) A.H. Clark, 1940:430–432, pl. 59.  
Holotype: USNM E5753 (1 dry), Greenland, between Cape Alexander and Cape Chalon; 25–40 fm (46–73 m); Capt. Robert A. Bartlett; 2 August 1937.
- bartschi*, *Hymenaster* Fisher, 1916b:29. (Fisher, 1919a:465–467, pl. 124: fig. 2; pl. 133: fig. 7.)  
Holotype: USNM 37018 (1 dry), *Albatross* 5428.
- bayeri*, *Ophidiaster* A.H. Clark, 1948b:58–60, pl. 2: fig. 3.  
Holotype: USNM E7176 (1 dry), Florida, outer reefs of Key Largo; F.B. Lyman; September 1947.
- benedicti*, *Solaster* Verrill, 1894:273–274.  
Syntypes: USNM 14848 (3 dry), *Albatross* 2682.  
Remarks: In the original description, Verrill stated: “This species was taken in 1885 at station 2530, off Georges Bank, in 956 fathoms, one specimen (No. 14848, U.S.N.M.); at station 2550, off Martha’s Vineyard, in 1081 fathoms, one specimen (No. 11816, U.S.N.M.), and in 1886 at station 2682, off Martha’s Vineyard, in 1004 fathoms, three specimens.” The USNM only has the three specimens labeled USNM 14848 from station 2682 and one of the three has an additional label of USNM 7862 from station 2209. Clark and Downey (1992:302) detailed this problem and considered the three specimens labeled USNM 14848 to be syntypes.
- benthophilus*, *Astropecten* Ludwig, 1905:69–71, pl. 4: figs. 17, 18.  
Syntypes: USNM 34338 (2 alcohol), *Albatross* 3371.  
Specimens in fair condition with discs torn and arms fragmented.
- bernasconiae*, *Luidia* A.H. Clark, 1945:19–21.  
Holotype: USNM E6718 (1 dry), Georgia, 60–100 miles off Sea Island; W.W. Alexander; 6 August 1931.  
= *Luidia alternata alternata* (Say, 1825). See Madsen (1950:209) and Clark and Downey (1992:8–9).
- biradialis*, *Mirastrella* Fisher, 1940:153–154, figs. D, 4–4e, pl. IX: fig. 1.  
Paratype: USNM E10115 (1 alcohol), *Discovery* 160.
- biserialis*, *Peribolaster* Fisher, 1905:313–314. (Fisher, 1911a:341–343, pl. 97: figs. 1, 2; pl. 114: figs. 3, 3a–c; pl. 115: fig. 5.)  
Syntypes: USNM 22342 (1 alcohol), *Albatross* 4410, California, Santa Catalina Island, Long Point; 178–195 fm (326–357 m); 11 April 1904.  
USNM E9621 (1 alcohol), *Albatross* 4410, California, Santa Catalina Island, Long Point; 178–195 fm (326–357 m); 11 April 1904.  
Remarks: Although Fisher described *biserialis* from one specimen and provided measurements of the specimen, there exists two specimens from *Albatross* 4410. One specimen was photographed dried (Fisher, 1911a) and has since been re-alcoholated. Due to the preservation and the similar size of the two specimens, it is impossible to determine which specimen Fisher used in his description. Preprinted type and cotype labels are attached to the specimens; however, they are not handwritten evidence of Fisher’s intent.
- blakei*, *Cheiraster* (*Christopheraster*) A.M. Clark, 1981:113–116, figs. 1b, 2c–f.  
Holotype: USNM E23426 (1 dry), *Gerda* 918.
- blegvadi*, *Hymenaster* Madsen, 1956:27–29, text-fig. 3, pl. 1: figs. 1–3.  
Paratype: USNM E8241 (1 alcohol), *Galathea* 658.
- borealis*, *Crossaster* Fisher, 1906a:134–136. (Fisher, 1911a:320–324, pl. 91: fig. 1; pl. 92: fig. 2; pl. 113: fig. 2a.)  
Holotype: USNM 21933 (1 alcohol), *Albatross* 2858.  
Remarks: Although Fisher mentions a second depth and locality of 987 fm in the Bering Sea in his type localities, he does not specifically refer to the specimens he intended to include herein. The USNM collections have 27 specimens of *C. borealis* from *Albatross* 3607 matching this depth and locality. It is impossible to determine which of these specimens Fisher examined for his species description.  
= *Solaster borealis* (Fisher, 1906). See Fisher (1911a:320–324).
- borealis*, *Dipsacaster* Fisher, 1910c:546–547. (Fisher, 1911a:91–95, pl. 12: figs. 1, 2; pl. 13: fig. 1; pl. 14: fig. 2.)  
Holotype: USNM 24341 (1 alcohol), *Albatross* 3331.
- bowersi*, *Nereidaster* Fisher, 1906b:1049–1050, pl. 16: figs. 4, 4a; pl. 17: fig. 4; pl. 21: fig. 1.  
Holotype: USNM 21161 (1 alcohol), *Albatross* 4134.

- brasiliensis*, *Astropecten* Müller and Troschel, 1842:68.  
Neotype: USNM E529 (1 dry), Brazil, Ilha de Sao Sebastiano; E. Garbe; December, 1915. Donated by the Museu Paulista. According to Clark and Downey (1992:32) the type material deposited by Müller and Troschel in the Vienna Museum no longer exists. Neotype designated by M.E. Downey in Clark and Downey (1992).
- brevispina*, *Asterias* Stimpson, 1857:528, pl. 23: fig. 3.  
Holotype: USNM 1285 (1 dry and fragment in alcohol), California, near mouth of San Francisco Bay; 10 fm (18 m); W. Stimpson.  
Remarks: The small fragment was labeled "pedicellaria of type" by W.K. Fisher and returned by the California Academy of Sciences.  
= *Pisaster brevispinus* (Stimpson, 1857). See Verrill (1914a:77-78).
- brevispina*, *Freyellidea* H.L. Clark, 1920:108-110, pl. 5: figs. 1, 2.  
Holotype: USNM E932 (1 alcohol), *Albatross* 4740. Specimen in fair condition, some deterioration, very fragmented.  
= *Freyella brevispina* (H.L. Clark, 1920). See Fisher (1928a:24).
- brevispinus*, *Acanthaster* Fisher, 1917b:92. (Fisher, 1919a: 442-444, pl. 117, pl. 118: fig. 1.)  
Holotype: USNM 37027 (1 alcohol), *Albatross* 5149.
- brevispinus*, subsp., *Persephonaster euryactis* Fisher, 1919a:115-117, pl. 24: fig. 2; pl. 25: fig. 3; pl. 30: fig. 2; pl. 36: figs. 2, 2a.  
Holotype: USNM 37002 (1 alcohol), *Albatross* 5289.  
Paratypes: USNM 40169 (1 alcohol), *Albatross* 5289.  
USNM 40170 (1 alcohol), *Albatross* 5290.  
USNM 40171 (1 alcohol), *Albatross* 5365.  
USNM 40540 (1 alcohol), *Albatross* 5550.
- briareus*, *Asterias* Verrill, 1882:220.  
Holotype: USNM 23839 (1 alcohol), *Fish Hawk* 899 and 900.  
= *Coronaster briareus* (Verrill, 1882). See Verrill (1914b:16).
- bruuni*, *Andora* (*Andora*) Rowe, 1977b:238-239, fig. 1d-f.  
Holotype: USNM E15901 (1 dry), IIOE, *Anton Bruun* cruise 8, sta. 401C.
- bullisi*, *Drachmaster* Downey, 1970a:78-80, figs. 1-6.  
Holotype: USNM E11359 (1 dry), *Oregon* 5970. "(one arm missing, another regenerating)."  
Paratype: USNM E11360 (1 dry), *Oregon* 5923. "(one arm removed for dissection)."  
= *Ophidiaster bullisi* (Downey, 1970). See Clark and Downey (1992:280-281).
- bullisi*, *Linckia* Moore, 1960:414-416, fig. 1.  
Holotype: USNM E8120 (1 alcohol), *Oregon* 2245.  
= *Linckia nodosa* Perrier, 1875. See Downey (1968:42).
- californica*, *Hippasteria* Fisher, 1905:310-311. (Fisher, 1911a:233-237, pl. 45: fig. 1.)  
Holotype: USNM 22339 (1 alcohol), *Albatross* 4429, California, south coast of Santa Cruz Island, Gull Islet; 506-680 fm (925-1244 m); 14 April 1904.
- californicus*, *Rathbunaster* Fisher, 1906a:137-139. (Fisher, 1928a:89-93, pl. 40: fig. 2; pl. 41: fig. 3.)  
Holotype: USNM 21934 (1 alcohol), *Albatross* 2925.
- callimorphus*, *Astroceramus* Fisher, 1906b:1056-1057, pl. 23: figs. 1-3; pl. 27: fig. 3.  
Holotype: USNM 21165 (1 alcohol), *Albatross* 3857.
- callipeplus*, *Leiaster* Fisher, 1906b:1083-1084, pl. 30: figs. 1, 1a; pl. 31: fig. 3.  
Holotype: USNM 21179 (1 alcohol), *Albatross* 4149, Hawaii, center of Bird Island (Nihoa Island); 33-71 fm (60-130 m); 5 August 1902.  
Paratypes: USNM 31312 (1 alcohol), *Albatross* 3872.  
USNM 31313 (1 alcohol), *Albatross* 3875.  
USNM 31314 (2 alcohol), *Albatross* 4128.
- callistus*, *Astropecten* Fisher, 1906b:1012-1014, pl. 8: fig. 3; pl. 9: figs. 4, 4a-d; pl. 11: fig. 2.  
Holotype: USNM 21146 (1 alcohol), *Albatross* 4079.  
Paratypes: USNM 31417 (6 alcohol), *Albatross* 4079.  
USNM 31418 (3 alcohol), *Albatross* 3810, Hawaii, south coast of Oahu Island, Honolulu Light; 53-238 fm (97-386 m); 27 March 1902.  
USNM 31419 (4 alcohol), *Albatross* 3835.  
USNM 31420 (1 alcohol), *Albatross* 3957.  
USNM 31422 (1 alcohol), *Albatross* 4080. Specimen given to BM(NH) in 1974.  
USNM 31808 (6 alcohol), *Albatross* 4045.  
USNM 31809 (1 alcohol), *Albatross* 4044.  
USNM 31810 (3 alcohol), *Albatross* 4114.  
USNM E4304 (1 alcohol), *Albatross* 4079.  
USNM E42493 (1 alcohol), *Albatross* 4079. Specimen segregated from holotype lot and recataloged.
- canaliculata*, *Sideriaster* A.H. Clark, 1916c:52-54.  
Holotype: USNM 36951 (1 dry), *Albatross* 2998.  
= *Tethyaster canaliculatus* (A.H. Clark, 1916). See A.M. Clark and A.H. Clark (1954:8-12).
- capitata*, *Asterias* Stimpson, 1862:264-265.  
Holotype: USNM 1280 (1 dry), California, San Diego; Dr. J.S. Newberry, Colorado Expedition.  
= *Pisaster giganteus capitatus* (Stimpson, 1862). See Fisher (1926a:562-564).
- caribaea*, *Hippasteria* Verrill, 1899:174-175, pl. 28: figs. 1, 1a.  
Holotype: USNM 18425 (1 dry), *Albatross* 2668.
- caribbaeus*, *Solaster* Verrill, 1915:54, pl. 28: figs. 1-1a.  
Holotype: USNM 18422 (1 dry), *Albatross* 2668.  
Paratype: USNM 7586 (1 dry), *Albatross* 2138.
- cassidatus*, *Rosaster* Macan, 1938:365-368, pl. 3: figs. 3, 6, text-fig. 4.  
Syntypes: USNM E7927 (3 dry), H.E.M.S. *Mabahiss*, sta. 153; John Murray Expedition.
- ceramoidea*, *Tosia* (*Plinthisaster*) Fisher, 1906b:1052-1054, pl. 16: figs. 6, 6a; pl. 22: figs. 3, 4.



- Holotype: USNM 21163 (1 alcohol), *Albatross* 3883.  
 Paratypes: USNM 40359 (1 alcohol), *Albatross* 4082.  
 USNM E9641 (1 alcohol), *Albatross* 3865.  
 = *Plinthaster ceramoideus* (Fisher, 1906). See Fisher (1911a:165).
- chirophorus*, *Pedicellaster* Fisher, 1917b:93. (Fisher, 1919a:499–501, pl. 142: fig. 2; pl. 155: figs. 2, 2a,b).  
 Holotype: USNM 37030 (1 alcohol), *Albatross* 5656.  
 Specimen in poor condition, deteriorated, reduced to ossicles.  
 = *Peranaster chirophorus* (Fisher, 1917). See Fisher (1923a:251–252).
- chiroplus*, *Ampheraster* Fisher, 1928a:84–86, pl. 31: figs. 3, 3a–d; pl. 32: fig. 2; pl. 35: fig. 2; pl. 37: fig. 2.  
 Holotype: USNM E1425 (1 alcohol), *Albatross* 4427, California, Santa Cruz Island, Point San Pedro; 447–510 fm (818–933 m); 14 April 1904. Specimen in poor condition, deteriorated, reduced to ossicles.
- cingulata*, *Psilasteropsis* Fisher, 1906b:1023–1026, pl. 3: figs. 2, 2a,b; pl. 7: figs. 1–3; pl. 8: fig. 2.  
 Holotype: USNM 21150 (1 alcohol), *Albatross* 3997.  
 Paratypes: USNM 31304 (1 alcohol), *Albatross* 4123.  
 USNM 31358 (1 alcohol), *Albatross* 3997.  
 USNM 31359 (1 alcohol), *Albatross* 3995.  
 USNM 31360 (1 alcohol), *Albatross* 3997.  
 USNM 31593 (1 alcohol), *Albatross* 3887.  
 = *Persephonaster cingulatus* (Fisher, 1906). See Fisher (1919a:111).
- clarki*, *Ceramaster* Fisher, 1910c:552. (Fisher, 1911a:217–219, pl. 38: figs. 3, 4; pl. 58: figs. 2, 2a,b; pl. 59: figs. 6, 6a.)  
 Holotype: USNM 27883 (1 dry and fragment in alcohol), *Albatross* 4772.
- clarki*, *Henricia* Fisher, 1910d:573. (Fisher, 1911a:303–305, pl. 78: figs. 2, 3; pl. 111: fig. 5; pl. 112: fig. 3.)  
 Holotype: USNM 27785 (1 alcohol), *Albatross* 4427, California, Santa Cruz Island, Point San Pedro; 447–510 fm (818–933 m); 14 April 1904.
- claviger*, *Benthopecten* Fisher, 1910c:548. (Fisher, 1911a: 150–152, pl. 22: fig. 4; pl. 54: fig. 4; pl. 56: figs. 1, 1a,b.)  
 Holotype: USNM 27804 (1 alcohol), *Albatross* 3788.  
 Specimen fragmented, some ossicles.
- cocosana*, *Sporasterias* Ludwig, 1905:235–240, pl. 33: fig. 199; pl. 34: figs. 200, 201.  
 Holotype: USNM 34405 (1 alcohol and dry), *Albatross* 3370.  
 The holotype is fragmented. Four rays are preserved in alcohol and 2 rays are dry, no disc.  
 = *Tarsaster cocosanus* (Ludwig, 1905). See Fisher (1928a:75–77).
- cognatus*, *Pararchaster* Ludwig, 1905:21–23, pl. 19: fig. 100.  
 Holotype: USNM 34436 (1 alcohol), *Albatross* 3360. Disc and arms fragmented, some ossicles.  
 = *Benthopecten cognatus* (Ludwig, 1905). See Ludwig (1910:464–466).
- compactus*, *Astromesites* Fisher, 1913a:611–612. (Fisher, 1919a:107–111, pl. 19: fig. 1; pl. 24: fig. 3; pl. 25: fig. 2; pl. 31: fig. 4; pl. 35: figs. 2, 2a–d.)  
 Holotype: USNM 30519 (1 alcohol), *Albatross* 5289.
- compta*, *Asterias* Stimpson, 1862:270.  
 Syntypes: USNM 1347 (2 dry), off the coast of New Jersey; 32 fm (59 m); Captain Gedney.  
 = *Leptasterias compta* (Stimpson, 1862). See Clark and Downey (1992:436).
- compta*, *Tosia* (*Plinthaster*) Verrill, 1899:163–165, pl. 27: fig. 2.  
 Syntype: USNM 7053 (1 dry), *Albatross* 2117.  
 = *Plinthaster dentatus* (Perrier, 1884). See Halpern (1970a:244–252).
- comptus*, *Astropecten* Verrill, 1915:176–177, pl. 12: figs. 3–3c; pl. 22: fig. 1.  
 Holotype: USNM 18346 (1 dry), *Albatross* 2406.  
 Paratypes: USNM 8514 (3 alcohol), *Albatross* 2286.
- concinus*, *Pseudarchaster* Verrill, 1894:250–255.  
 Lectotype: USNM 14944 (1 dry), *Albatross* 2706. Designated lectotype by Halpern (1972:365–366).  
 Paralectotypes: USNM E42999 (3 alcohol), *Albatross* 2706.  
 USNM E11297 (2 dry), *Albatross* 2706.  
 USNM 21641 (1 alcohol), *Albatross* 2060. This specimen was reidentified as *Pseudarchaster parelii* (Düben and Koren) by Halpern (1972:365–366).  
 = *Pseudarchaster gracilis gracilis* (Sladen, 1889). See Halpern (1972:360–366).
- conferta* *Asterias* Stimpson, 1862:263–264.  
 Holotype: USNM 1275 (1 dry), Washington, Puget Sound; Northwest Boundary Commission, Dr. C.B. Kennerly.  
 = *Pisaster ochraceus forma confertus* (Stimpson, 1862). See Fisher (1926a:559).
- constellatus*, *Doraster* Downey, 1970b:5–12, figs. 3–11.  
 Holotype: USNM E11352 (1 dry), *Oregon* 2780.  
 Paratypes: USNM E11353 (1 dry), *Oregon* 2780.  
 USNM E11354 (1 dry), *Oregon* 3583.  
 USNM E11355 (1 dry), *Oregon II* 10602.  
 USNM E12424 (1 dry), *Oregon II* 10794. This lot was not listed in the material examined (1970b:12), but was cataloged as a paratype by the author.  
 USNM E12425 (1 dry), *Oregon II* 11231. Same explanation as E12424.  
 USNM E11356 (1 dry), *Alaminos* 21, cruise 68-A-13.  
 USNM E11357 (4 dry), *Oregon* 382. Six specimens were reported from this station. One has been exchanged with the University of Concepcion (Chile) for a paratype of another species of *Doraster*. The other specimen is missing from the USNM collections.  
 USNM 10742 (2 dry), *Albatross* 2376. Eight specimens were reported from this station. The USNM catalog ledger records 9 specimens; 2 dry, 5 alcohol (reserve) and 2 alcohol (sent to A.E. Verrill). Only the 2 dry specimens were examined by the author and are the only paratype

- specimens from this station.
- USNM 10743 (2 dry and 2 alcohol), *Albatross* 2377.
- corallicola*, *Asterina* Marsh, 1977:271–275, figs. 8, 9, tables 1, 2.
- Holotype: USNM E16516 (1 dry), Caroline Islands, Palau, on a patch reef north of Koror Island; 10 m; R.S. Rideout, G.A. Heslinga, and M. Yamaguchi; 9 February 1971.
- Paratypes: USNM E41020 (3 dry), Caroline Islands, Palau, on a patch reef north of Koror Island; 10 m; R.S. Rideout, G.A. Heslinga, and M. Yamaguchi; 9 February 1971.
- corynetes*, *Calliaster* Fisher, 1913a:644–645. (Fisher, 1919a:316–320, pl. 86: fig. 1; pl. 87: fig. 1; pl. 93: figs. 5, 5a.)
- Holotype: USNM 30557 (1 alcohol), *Albatross* 5280.
- corynetes*, *Pteraster* Fisher, 1916b:28. (Fisher, 1919a:456–458, pl. 127: figs. 2, 3; pl. 128: fig. 1; pl. 133, figs. 5, 5a.)
- Holotype: USNM 37014 (1 alcohol), *Albatross* 5623.
- coscinactis*, *Anteliaster* Fisher, 1923a:252. (Fisher, 1928a:70–71, pl. 29: figs. 1, 1a–e; pl. 35: fig. 6; pl. 36: fig. 4; pl. 37: fig. 3.)
- Holotype: USNM E1421 (1 alcohol), *Albatross* 4427, California, Santa Cruz Island, Point San Pedro; 447–510 fm (818–933 m); 14 April 1904.
- coscinopeplus*, *Pteraster* Fisher, 1910a:169. (Fisher, 1911a:354–355, pl. 102: figs. 1, 3; pl. 116: fig. 4.)
- Holotype: USNM 27792 (1 alcohol), *Albatross* 2925. Specimen slightly deteriorated, very fragile.
- costata*, *Brisinga* Verrill, 1884:382.
- Holotype: USNM 7820 (1 alcohol), *Albatross* 2210. Verrill incorrectly cited *Albatross* 2310 as the station.
- Paratypes: USNM 6739 (1 alcohol), *Albatross* 2116.
- USNM 18503 (1 alcohol), *Albatross* 2116.
- craspedotus*, *Tritonaster* Fisher, 1906b:1017–1019, pl. 8: fig. 4; pl. 9: figs. 1, 1a–k; pl. 11: fig. 1.
- Holotype: USNM 21148 (1 alcohol), *Albatross* 3918, Hawaii, south coast of Oahu Island, Diamond Head Light; 257–294 fm (470–538 m); 6 May 1902.
- Paratypes: USNM 38210 (8 alcohol), *Albatross* 3918, Hawaii, south coast of Oahu Island, Diamond Head Light; 257–294 fm (470–538 m); 6 May 1902.
- USNM E4527 (1 dry), *Albatross* 3918, Hawaii, south coast of Oahu Island, Diamond Head Light; 257–294 fm (470–538 m); 6 May 1902.
- USNM E42494 (2 alcohol), *Albatross* 3918, Hawaii, south coast of Oahu Island, Diamond Head Light; 257–294 fm (470–538 m); 6 May 1902.
- USNM E42495 (1 alcohol), *Albatross* 3919, Hawaii, south coast of Oahu Island, Diamond Head Light; 220–257 fm (402–470 m); 6 May 1902.
- USNM E42496 (1 alcohol), *Albatross* 3914, Hawaii, south coast of Oahu Island, Diamond Head Light; 289–292 fm (529–534 m); 6 May 1902.
- crassus*, *Odontaster* Fisher, 1905:302–303. (Fisher, 1911a:154–158, pl. 29: figs. 1–4; pl. 56: fig. 6.)
- Holotype: USNM 22333 (1 alcohol), *Albatross* 4313, California, vicinity of San Diego, Point Loma Light House; 92–243 fm (168–444 m); 4 March 1904. Specimen in poor condition, deteriorated, reduced to ossicles.
- cremnodes*, *Hymenaster* H.L. Clark, 1920:91–93, pl. 4: fig. 1.
- Holotype: USNM E9838 (1 dry), *Albatross* 4658. Specimen in poor condition, reduced to ossicles and fragments.
- cribellosa*, *Benthogenia* Fisher, 1911d:415–417. (Fisher, 1919a:39–43, pl. 1: fig. 1; pl. 2: fig. 1; pl. 8: figs. 2, 2a–d.)
- Holotype: USNM 28655 (1 alcohol), *Albatross* 5513.
- cribraria*, *Asterias* Stimpson, 1862:270–271.
- Holotype: USNM 1350 (1 dry), Arctic Ocean, north of Bering Strait; 20–30 fm (37–55 m); North Pacific Exploring Expedition, Captain J. Rodgers.
- Paratype: USNM 1354 (1 dry), Arctic Ocean, north of Bering Strait; 20–30 fm (37–55 m); North Pacific Exploring Expedition, Captain J. Rodgers.
- = *Leptasterias groenlandica* forma *cribraria* (Stimpson, 1862). See Fisher (1928a:45–48).
- ctenophorus*, *Astropecten* Fisher, 1906b:1006–1008, pl. 1: figs. 4, 5; pl. 2: figs. 3, 3a–d.
- Holotype: USNM 21143 (1 alcohol), *Albatross* 3937.
- cycloplax*, *Peltaster* Fisher 1913a:641. (Fisher, 1919a:290–294, pl. 74: fig. 1; pl. 75; pl. 83: fig. 1; pl. 92: figs. 11, 11a–d.)
- Holotype: USNM 30552 (1 alcohol), *Albatross* 5279.
- demonstrans*, *Dytaster* Ludwig, 1905:41–53, pl. 5: figs. 23–25; pl. 18: figs. 97–99; pl. 19: fig. 107; pl. 20: figs. 108–115.
- Syntypes: USNM 34358 (2 alcohol), *Albatross* 3360.
- USNM 34355 (1 alcohol), *Albatross* 3361.
- USNM 34353 (2 alcohol), *Albatross* 3374.
- USNM 34359 (3 alcohol), *Albatross* 3381.
- USNM 34360 (1 alcohol), *Albatross* 3382.
- USNM 34362 (1 alcohol), *Albatross* 3398. Specimen in poor condition, disc torn, rays fragmented.
- USNM 34354 (1 alcohol), *Albatross* 3399.
- USNM 34357 (1 alcohol), *Albatross* 3400.
- USNM 34356 (2 alcohol), *Albatross* 3413.
- USNM 34361 (1 alcohol), *Albatross* 3414.
- = *Dytaster gilberti demonstrans* Ludwig, 1905. See Fisher (1928b:488–489).
- densus*, *Lophaster* Fisher, 1940:173–175, figs. E, 4–4c, pl. 8: figs. 2, 3.
- Paratype: USNM E10102 (1 alcohol), *Discovery* 175.
- diamantinae*, *Heteronardoa* Rowe, 1976:94–99, figs. 13, 14.
- Paratype: USNM E13783 (1 alcohol), IIOE, *Anton Bruun*, cruise 8, sta. 403E.
- diaphanus*, *Retaster* Ludwig, 1905:202–204.
- Holotype: USNM 34411 (1 alcohol), *Albatross* 3371.
- = *Pteraster (Retaster) diaphanus* (Ludwig, 1905). See Clark and Downey (1992:307).
- diaphorus*, *Dipsacaster* Fisher, 1913a:622. (Fisher, 1919a: 152–154, pl. 12: fig. 3; pl. 28: fig. 2; pl. 29: fig. 2; pl. 31:



- fig. 1; pl. 41: figs. 3, 3a-c.)  
 Holotype: USNM 30530 (1 alcohol), *Albatross* 5526.  
*diomedaeae*, *Cheiraster* Fisher, 1917b:90. (Fisher, 1919a:200-203, pl. 47: fig. 1; pl. 54: figs. 5, 5a-c.)  
 Holotype: USNM 37035 (1 alcohol), *Albatross* 5512.  
*diomedaeae*, *Hydrasterias* Ludwig, 1905:242-246, pl. 34: fig. 204; pl. 35: fig. 206.  
 Syntypes: USNM 34363 (1 alcohol), *Albatross* 3368.  
 USNM 34364 (1 specimen and 7 dissociated arm fragments, alcohol), *Albatross* 3397.  
 USNM E37364 (2 dry), *Albatross* 3397. These specimens were segregated from USNM 34364.  
 = *Sclerasterias alexandri* (Ludwig, 1905). See Fisher (1924a:4).  
*diomedaeae*, *Nymphaster* Ludwig, 1905:128-135, pl. 10: figs. 48, 49, 52, 53; pl. 11: figs. 54, 55.  
 Syntypes: USNM 34427 (2 alcohol), *Albatross* 3357.  
 USNM 34428 (7 alcohol), *Albatross* 3371.  
 USNM 34457 (11 alcohol), *Albatross* 3371.  
 USNM 34454 (7 alcohol), *Albatross* 3403.  
 USNM 34455 (4 alcohol), *Albatross* 3407.  
 USNM 34456 (1 alcohol), *Albatross* 3407.  
*diomedaeae*, *Zoroaster* Verrill, 1884:217.  
 Syntypes: USNM 9017 (7 alcohol), *Albatross* 2035.  
 USNM 9019 (5 alcohol), *Albatross* 2051.  
 USNM 9066 (7 dry), *Albatross* 2052.  
 USNM 9223 (1 dry), *Albatross* 2084.  
 USNM 14048 (13 dry and 19 alcohol), *Albatross* 2035.  
 USNM 14049 (10 dry and 14 alcohol), *Albatross* 2095.  
 USNM 14050 (7 dry), *Albatross* 2043.  
 USNM 26258 (1 dry), *Albatross* 2043.  
 = *Zoroaster fulgens* Thomson, 1873. See Downey (1970b:15-17).  
*diplotenius*, *Ctenophoraster* Fisher, 1913a:609. (Fisher, 1919a:95-99, pl. 12: fig. 4; pl. 16: figs. 2, 2a-c; pl. 17: fig. 2; pl. 18: fig. 1.)  
 Holotype: USNM 30516 (1 alcohol), *Albatross* 5272.  
*dispar*, *Pectinaster* Verrill, 1915:148, pl. 14: figs. 1, 1a, 1b.  
 Holotype: USNM 18468 (1 dry), *Albatross* 2751. Verrill reported that the locality was unknown.  
 = *Cheiraster (Cheiraster) septius* (Verrill, 1885). See A.M. Clark (1981:117-118).  
*dissonus*, *Pseudarchaster* Fisher, 1910c:551-552. (Fisher, 1911a:192-196, pl. 34: figs. 1-3; pl. 57: fig. 7.)  
 Holotype: USNM 27882 (1 dry), *Albatross* 3346.  
*distichopus*, *Tarsaster* Fisher, 1917b:92. (Fisher 1919a:490-492, pl. 141: fig. 1; pl. 155: figs. 3, 3a-c.)  
 Holotype: USNM 37031 (1 alcohol), *Albatross* 5664.  
 = *Ampheraster distichopus* (Fisher, 1917). See Fisher (1928a:80-81).  
*downeyae*, *Henricia* A.M. Clark, 1987:75-77, figs. 1d,e, 3C-E.  
 Holotype: USNM E33569 (1 dry), *Pillsbury* 1187.  
 Paratypes: USNM E33570 (2 dry), *Gerda* 311.  
 USNM E33571 (2 dry), *Pillsbury* 689.  
 USNM E33572 (1 dry), *Gerda* 830.  
 USNM E33573 (4 dry), *Gerda* 354.  
*dyscrita*, subsp., *Henricia leviuscula* Fisher, 1911a:289-291, pl. 74: figs. 1-5.  
 Holotype: USNM 27780 (1 dry), *Albatross* 2907.  
 Paratypes: USNM E3559 (1 dry), *Albatross* station not recorded, California, Wilmington; 47 fm (86 m).  
 USNM E3562 (2 dry), *Albatross* 2943.  
 USNM E3563 (1 dry), *Albatross* 2958.  
 USNM E3564 (2 dry), *Albatross* 2951.  
 USNM E3565 (7 dry), *Albatross* 2964.  
 USNM E3566 (2 dry), *Albatross* 2966. Fisher recorded a single specimen from this station.  
 USNM E3567 (1 dry), *Albatross* 2975.  
 USNM E3568 (1 dry), *Albatross* 3666.  
 USNM E3569 (6 dry), *Albatross* 4420, California, San Nicolas Island, east point; 32-33 fm (59-60 m); 12 April 1904.  
 USNM E3570 (7 dry), *Albatross* 4431, California, Santa Rosa Island, Brockway Point; 38-45 fm (70-82 m); 15 April 1904. Fisher recorded 5 specimens from this station.  
 USNM E3572 (2 dry), *Albatross* 4554, California, Monterey Bay, Point Pinos Light House; 60-80 fm (110-146 m); 9 June 1904.  
 USNM E3573 (3 dry), *Albatross* 4558, California, Monterey Bay, Point Pinos Light House; 28-40 fm (51-73 m); 9 June 1904. Fisher recorded 2 specimens from this station.  
 USNM E3591 (4 dry), *Albatross* 2965.  
 USNM E9650 (3 alcohol), *Albatross* 4532, California, Monterey Bay, Point Pinos Light House; 30 fm (55 m); 28 May 1904. Fisher recorded a single specimen from this station.  
*dyscritus*, *Nymphaster* Fisher, 1913a:635-636. (Fisher, 1919a:266-269, pl. 62: fig. 2; pl. 65: fig. 3; pl. 92: figs. 5, 5a,b.)  
 Holotype: USNM 30543 (1 alcohol), *Albatross* 5526.  
*echinosoma*, *Evasterias* Fisher, 1926b:2-5, pls. 1, 2.  
 Holotype: USNM E1237 (1 dry), *Albatross* 3278.  
 Paratypes: USNM E1640 (1 dry), *Albatross* 2842.  
 USNM E29485 (1 alcohol), *Albatross* 3235.  
 USNM E14022 (1 dry), *Albatross* 3241.  
 USNM E3327 (1 dry), *Albatross* 3278.  
 USNM E3336 (1 dry), *Albatross* 3281.  
 USNM E29488 (1 dry), *Albatross* 3281.  
 USNM E1626 (1 dry), *Albatross* 3282.  
 USNM E1641 (1 dry), *Albatross* 3285.  
 USNM E1636 (1 dry), *Albatross* 3291.  
 USNM E29484 (1 alcohol), *Albatross* 3291.  
 USNM E13670 (1 dry), *Albatross* 4796.  
*eclipses*, *Coronaster* Fisher, 1925:86-87, fig. 9a-f.  
 Holotype: USNM E1197 (1 ray, alcohol), *Albatross* 4031,

- Hawaii, south coast of Oahu Island, Diamond Head Light; 27–28 fm (49–51 m); 9 July 1902. Fisher described this species from a single ray.
- ectenes*, subsp., *Myxoderma sacculatum* Fisher, 1919b:392. (Fisher, 1928a:49–52, pl. 14: fig. 4a; pl. 22: fig. 1.)  
Holotype: USNM E1417 (1 alcohol), *Albatross* 5694.
- elegans*, *Brisinga* Verrill, 1884:382.  
Syntypes: USNM 6740 (11 alcohol), *Albatross* 2105.  
USNM 7819 (1 alcohol), *Albatross* 2209.  
USNM 7854 (1 alcohol), *Albatross* 2211.  
USNM 8076 (5+ alcohol), *Albatross* 2229. Specimens are deteriorated and can't be accurately counted.  
USNM 9015 (11 alcohol), *Albatross* 2084. There are 11 discs, few arm fragments, some reduced to ossicles.  
USNM 9016 (10 alcohol), *Albatross* 2076.  
USNM 9065 (1 alcohol), *Albatross* 2035.  
USNM 18305 (3 arm fragments, dry), *Albatross* 2077.  
USNM 18455 (14 alcohol), *Albatross* 2105.  
USNM 38452 (4 dry), *Albatross* 2229.  
USNM 38862 (32 alcohol), *Albatross* 2105.  
USNM 38926 (3 alcohol), *Albatross* 2229.  
USNM E38626 (2 alcohol), *Albatross* 2105.  
= *Freyella elegans* (Verrill, 1884). See Verrill (1894:283–285).
- elegans*, *Distolasterias* Djakonov, 1931:67, figs. 1a,b, 2 (1–5).  
Syntype: USNM E10225 (1 dry), sta. 10, Russia, Tatarskiy Proliv, Kastri Bay; 26–40 ft (8–12 m); USSR Hydrographic Expedition; 1909. USSR catalog number 4696.
- elegans*, *Mediaster* Ludwig, 1905:125–128, pl. 9: figs. 46, 47; pl. 24: fig. 134.  
Holotype: USNM 34443 (1 alcohol), *Albatross* 3363.
- elegans*, *Prionaster* Verrill, 1899:216–217, pl. 27: figs. 4, 4a–c.  
Holotype: USNM 18428 (1 dry), *Albatross* 2401.
- enopla*, *Asterias* Verrill, 1895:208.  
Holotype: USNM 23841 (1 dry), *Speedwell* 118, Nova Scotia, Halifax, off Chebucto Head Light; 53 fm (97 m); 24 September 1877. The specimen was labeled type by Verrill.  
Remarks: A second specimen was mentioned by Verrill but no specimen was labeled cotype in the USNM collections. It is possible that one of the 15 specimens (USNM 9897) is the paratype.  
= *Urasterias lincki* (Müller and Troschel, 1842). See Clark and Downey (1992:458).
- enoplus*, *Cheiraster* Verrill, 1915:135–137, pl. 18: fig. 1.  
Holotype: USNM 7425 (1 dry), *Albatross* 2128.  
= *Cheiraster* (*Christopheraster*) *mirabilis* (Perrier, 1881). See A.M. Clark (1981:112–113).
- epixanthus*, *Antheniaster* Fisher, 1906b:1067–1070, pl. 20: fig. 3; pl. 26: figs. 1, 1a–c; pl. 29: figs. 1, 2; pl. 49: fig. 1.  
Holotype: USNM 21170 (1 alcohol), *Albatross* 4080.  
Paratypes: USNM 31424 (1 alcohol), *Albatross* 4080.  
USNM 31604 (1 alcohol), *Albatross* 4081.  
USNM E41531 (1 dry), *Albatross* 4081.  
USNM 31603 (3 alcohol), *Albatross* 4082.  
USNM 31605 (1 alcohol), *Albatross* 4084.  
USNM 31423 (1 alcohol), *Albatross* 4115.  
= *Anthenoides epixanthus* (Fisher, 1906). See Fisher (1919a:328–329).
- eremicus*, *Astropecten* Fisher, 1913a:605. (Fisher, 1919a:79–82, pl. 13: fig. 2; pl. 15: figs. 3, 3a–e.)  
Holotype: USNM 30511 (1 alcohol), *Albatross* 5491.
- eritimus*, *Benthaster* Fisher, 1906b:1101–1102, pl. 38: fig. 7; pl. 40: figs. 1, 1a,b.  
Holotype: USNM 21186 (1 alcohol), *Albatross* 3824.
- ernesti*, *Pentagonaster* Ludwig, 1905:136–138, pl. 10: figs. 50, 51.  
Syntype: USNM 34429 (1 alcohol), *Albatross* 3362.  
Remarks: Ludwig described two specimens from this station. Both specimens were recorded with the same catalog number in the USNM ledgers. One specimen is now missing.  
= *Pillsburiaster ernesti* (Ludwig, 1905). See Halpern (1970c:107).
- eucnemis*, *Astropecten* Fisher, 1919a:75–79, pl. 10: fig. 1; pl. 14: figs. 3, 3a–d.  
Holotype: USNM 37005 (1 alcohol), *Albatross* 5393.  
Paratypes: USNM 40362 (1 alcohol), *Albatross* 5393.  
USNM 40239 (1 alcohol), *Albatross* 5134.  
USNM 40831 (2 alcohol), *Albatross* 5182.  
USNM 40081 (20 alcohol), *Albatross* 5182.  
USNM 40812 (1 alcohol), *Albatross* 5212.
- eucoryne*, *Brisinga* (*Craterobrisinga*) Fisher, 1916b:33–34. (Fisher, 1919a:514–516, pl. 143: fig. 3; pl. 148: figs. 4–6; pl. 149: fig. 2; pl. 154: figs. 1a–c.)  
Holotype: USNM 37024 (1 alcohol), *Albatross* 5348.  
= *Brisinga eucoryne* Fisher, 1916. See Downey (1986:4–5).
- euerces*, subsp., *Asterina cristata* Fisher, 1917b:91. (Fisher, 1919a:414–416, pl. 115: figs. 1, 2; pl. 116: figs. 1, 2; pl. 131: figs. 5, 5a.)  
Holotype: USNM 37036 (1 alcohol), *Albatross* shore station. Philippines, Palawan Island, Ulugan Bay (near mouth of Baheli River); 2–5 ft (0.6–1.5 m); 28 December 1908.  
= *Asterina coronata euerces* (Fisher, 1917). See Fisher (1918:110).
- euphylacteum*, *Astrothauma* Fisher, 1913a:645–646. (Fisher, 1919a:320–324, pl. 86: fig. 2; pl. 87: fig. 2; pl. 93: figs. 7, 7a–c.)  
Holotype: USNM 30558 (1 alcohol), *Albatross* 5412.
- euplecta*, *Coscinasterias* (*Distolasterias*) Fisher, 1906b:1105–1106, pl. 41: figs. 4, 4a–c; pl. 42: figs. 1–4.  
Holotype: USNM 21188 (1 alcohol), *Albatross* 3885.  
Paratypes: USNM 31381 (1 alcohol), *Albatross* 3835.  
USNM 39423 (5 alcohol), *Albatross* 3859. The USNM catalog shows 15 specimens from this station.  
USNM 31934 (3 alcohol), *Albatross* 4045.  
USNM 39918 (1 dry), *Albatross* 4064. The specimen label

- states *Albatross* 4046; however, this is probably a cataloging error.  
 USNM 39901 (2 dry), *Albatross* 4066.  
 USNM 31937 (8 dry), *Albatross* 4079.  
 USNM 31935 (2 alcohol), *Albatross* 4100. A note in bottle states that Fisher removed the specimens in 1923. They have not been replaced.  
 = *Sclerasterias euplecta* (Fisher, 1906). See Fisher (1924a: 2-7).
- euryactis*, *Persephonaster* Fisher 1913a:613-614. (Fisher, 1919a:112-115, pl. 24: fig. 4; pl. 25: fig. 4; pl. 30: fig. 5; pl. 35: figs. 1, 1a-d; pl. 36: fig. 1.)  
 Holotype: USNM 30520 (1 alcohol), *Albatross* 5297.
- euryplax*, *Nymphaster* Fisher, 1913a:634-635. (Fisher, 1919a:264-266, pl. 63: fig. 3; pl. 72: fig. 2; pl. 92: figs. 6, 6a.)  
 Holotype: USNM 30542 (1 alcohol), *Albatross* 5516.
- eusticha*, *Fromia* Fisher, 1913c:213-214. (Fisher, 1919a:375-377, pl. 95: fig. 2; pl. 105: fig. 1; pl. 106: fig. 1; pl. 107: figs. 3, 5.)  
 Holotype: USNM 32637 (1 alcohol), *Albatross* 5146.
- evaulus*, *Dytaster* (*Koremaster*) Fisher, 1913a:623-624. (Fisher, 1919a:157-161, pl. 33: fig. 2; pl. 34: fig. 2; pl. 40: figs. 2, 2a-e.)  
 Holotype: USNM 30532 (1 alcohol), *Albatross* 5606.  
 = *Koremaster evaulus* (Fisher, 1913). See Fisher (1919a: 157-161).
- evermanni*, *Brisinga* Fisher, 1906b:1113-1115, pl. 43: fig. 2; pl. 45: fig. 4; pl. 47: fig. 3; pl. 48: figs. 2, 2a-c.  
 Holotype: USNM 21193 (1 alcohol), *Albatross* 3992.
- evermanni*, *Zoroaster* (*Myxoderma*) Fisher, 1905:317-318. (Fisher, 1928a:40-43, pl. 18: fig. 4; pl. 19: fig. 1.)  
 Holotype: USNM 22347 (1 alcohol), *Albatross* 4400.  
 = *Zoroaster evermanni* (Fisher, 1905). See Fisher (1919b: 389-390). *Myxoderma* raised to the genus level.
- evoplus*, subsp., *Cheiraster agassizi* Fisher, 1910c:551. (Fisher, 1911a:123-127, pl. 28: figs. 1, 2.)  
 Holotype: USNM 27798 (1 alcohol), *Albatross* 4387.  
 = *Pectinaster agassizi evoplus* (Fisher, 1910). See Fisher (1911a:123-127).
- evorus*, *Tritonaster* Fisher, 1913a:621-622. (Fisher, 1919a:136-140, pl. 29: figs. 1, 4; pl. 30: fig. 6; pl. 39: figs. 3, 3a,b.)  
 Holotype: USNM 30529 (1 alcohol), *Albatross* 5476.
- exiguus*, *Astropecten* Ludwig, 1905:72-75, pl. 4: figs. 19, 20; pl. 22: fig. 121.  
 Syntypes: USNM 34327 (21 alcohol), *Albatross* 3387.  
 USNM 34328 (2 alcohol), *Albatross* 3388.  
 USNM 34326 (1 alcohol), *Albatross* 3389.
- exiguus*, *Solaster* Fisher, 1910d:573-574. (Fisher, 1911a:319-320, pl. 90: figs. 1, 2; pl. 112: figs. 4, 4a,b.)  
 Holotype: USNM 27786 (1 alcohol), *Albatross* 2980.  
 Paratype: USNM E42542 (1 alcohol), *Albatross* 2980.
- exilis*, *Brisinga* Fisher, 1905:318-319. (Fisher, 1928a:13-16, pl. 2: figs. 2, 2c,d; pl. 8: figs. 2, 2a,b.)  
 Holotype: USNM 22348 (1 alcohol), *Albatross* 4398.  
 = *Brisingella exilis* (Fisher, 1905). See Fisher (1917d:421, 423, 427).
- eximius*, *Dipsacaster* Fisher, 1905:296-297. (Fisher, 1911a: 86-90.)  
 Holotype: USNM 22328 (1 alcohol), *Albatross* 4334, California, vicinity of San Diego, Point Loma Light House; 514-541 fm (940-989 m); 9 March 1904.
- fecunda*, *Freyella* Fisher, 1905:319-320. (Fisher, 1928a:21-24, pl. 3: figs. 1, 1a-f; pl. 7: fig. 2; pl. 9; pl. 12: fig. 1.)  
 Holotype: USNM 22349 (1 alcohol), *Albatross* 4530, California, Monterey Bay, Point Pinos Light House; 755-958 fm (1381-1752 m); 27 May 1904.  
 = *Freyellaster fecundus* (Fisher, 1905). See Fisher (1918:104).
- ferruginea*, *Luidia* Ludwig, 1905:80-84.  
 Syntypes: USNM 34444 (1 alcohol), *Albatross* 3391.  
 USNM 34445 (4 alcohol), *Albatross* 3391.
- fisheri*, *Asthenactis* Alton, 1966:692-696, figs. 2-5.  
 Holotype: USNM E10430 (1 alcohol), *Commando*, Oregon, southwest of mouth of Columbia River, 46°03'12"N 125°05'42"W; 800 fm (1463 m); U.S. Bureau of Commercial Fisheries; 30 May 1964.  
 Paratypes: E10431 (1 alcohol), *Commando*, Oregon, southwest of mouth of Columbia River, 46°03'12"N 125°05'42"W; 800 fm (1463 m); U.S. Bureau of Commercial Fisheries; 30 May 1964.  
 USNM E10432 (1 dry), *Commando*, Oregon, southwest of mouth of Columbia River, 46°03'12"N 125°05'42"W; 800 fm (1463 m); U.S. Bureau of Commercial Fisheries; 30 May 1964.
- fisheri*, *Odontohenricia* Rowe and Albertson, 1988:93-96, figs. 7A,B, 8A-E.  
 Holotype: USNM E3838 (1 dry), *Albatross* 2877.
- fissispina*, *Asterias* Stimpson, 1862:264.  
 Holotype: USNM 1276 (1 dry), Washington, Cape Shoalwater; Dr. J.G. Cooper, Northern Pacific Railroad Expedition. Stimpson recorded Cape Shoalwater from Oregon.  
 = *Pisaster ochraceus* (Brandt, 1835). See Fisher (1926a: 557-559).
- flexilis*, subsp., *Poraniopsis inflata* Fisher, 1910d:568-569. (Fisher, 1911a:265-266, pl. 58: fig. 8; pl. 64; pl. 112: fig. 2.)  
 Holotype: USNM 27778 (1 alcohol), *Albatross* 4407, California, Santa Catalina Island, SE point; 334-600 fm (611-1097 m); 9 April 1904.
- florae*, *Archaster* Verrill, 1878:372-373.  
 Holotype: USNM 33259 (1 dry), *Speedwell*, station not recorded, Nova Scotia, 30 miles south of Halifax; 100 fm (183 m); 1877.  
 = *Psilaster andromeda florae* (Verrill, 1878). See Clark and Downey (1992:78-79).



- forcipatus*, var., *Astropecten nitidus* Verrill, 1915:180, pl. 16: fig. 3; pl. 20: fig. 1.  
 Holotype: USNM 10067 (1 dry) *Albatross* 2313.  
 Paratypes: USNM 10545 (1 dry), *Albatross* 2417. Verrill incorrectly cited USNM 10543 for this specimen.  
 USNM E43000 (10 alcohol), *Albatross* 2313. Specimens were segregated from the holotype lot.  
 = *Astropecten nitidus* Verrill, 1915. See Downey (1973: 30–31).
- forcipatus*, *Neomorphaster* Verrill, 1894:269–271.  
 Holotype: USNM 14859 (1 dry), *Albatross* 2681. A label attached to the specimen in Verrill's handwriting notes that Verrill described the species from this specimen.  
 Paratype: USNM 11131 (1 dry), *Albatross* 2530.  
 Remarks: A second paratype, USNM 11425 from *Albatross* 2531 (p. 271), was deposited in the Peabody Museum.
- forcipifera*, *Evoplosoma* Fisher, 1906b:1065–1067, pl. 26: figs. 5, 5a–c; pl. 27: figs. 4, 4a,b; pl. 29: fig. 3.  
 Holotype: USNM 21169 (1 dry), *Albatross* 4186. The type is missing from the USNM collections.
- formosus*, *Archaster* Verrill, 1884:383–384.  
 Syntypes: USNM 7963 (1 dry), *Albatross* 2174.  
 USNM 8151 (2 alcohol), *Albatross* 2226.  
 USNM 9081 (5 alcohol), *Albatross* 2043.  
 USNM 9082 (1 dry and 2 alcohol), *Albatross* 2041.  
 USNM 9083 (3 alcohol), *Albatross* 2042.  
 USNM 14294 (5 dry), *Albatross* 2042.  
 USNM 14295 (1 alcohol), *Albatross* 2043.  
 = *Paragonaster subtilis* (Perrier, 1881). See Grieg (1921: 20–21) and Mortensen (1927:79).
- fragilis*, *Brisinga* Fisher, 1906b:1115–1117, pl. 46: fig. 1; pl. 48: figs. 3, 3a–c.  
 Holotype: USNM 21194 (1 alcohol), *Albatross* 3824.  
 Paratypes: USNM 31104 (1 alcohol), *Albatross* 3865.  
 USNM 31105 (1 alcohol), *Albatross* 4090.  
 USNM 31106 (1 alcohol), *Albatross* 4166, Hawaii, center of Bird Island (Nihoa Island); 293–800 fm (536–1463 m); 8 August 1902.  
 USNM E4342 (1 alcohol), *Albatross* 3910, Hawaii, south coast of Oahu Island, Diamond Head Light; 311–337 fm (569–616 m); 5 May 1902. Specimen in poor condition, deteriorated, reduced to ossicles, few fragments.  
 USNM 31103 (1 alcohol), *Albatross* 3817, Hawaii, south coast of Oahu Island, Diamond Head Light; 320 fm (585 m); 28 March 1902. Variation A.  
 USNM 31876 (1 alcohol), *Albatross* 4041. Variation B.  
 USNM 31102 (1 alcohol), *Albatross* 3892. Variation B.  
 USNM 31874 (1 alcohol), *Albatross* 3914, Hawaii, south coast of Oahu Island, Diamond Head Light; 289–292 fm (529–534 m); 6 May 1902. Variation C.  
 USNM 31875 (1 alcohol), *Albatross* 4131. Variation D.  
 Remarks: Although 5 of the paratype lots are marked as variations, Fisher included them in the type series for *B. fragilis*. He reported that the small differences were not specific in character and he distinguished them as variations, “merely as a method of systematizing the diagnosis.”  
 = *Brisingella fragilis* (Fisher, 1906). See Fisher (1917d:421, 423, 427).
- furcilliger*, *Lophaster* Fisher, 1905:312–313. (Fisher, 1911a:334–338, pl. 79: figs. 1, 2.)  
 Holotype: USNM 22341 (1 alcohol), *Albatross* 4425, California, San Nicolas Island, east point; 1084–1100 fm (1983–2012 m); 13 April 1904.
- galapagensis*, var., *Paulia horrida* Ludwig, 1905:143–151, pl. 13: figs. 63, 64; pl. 24: figs. 135–137; pl. 25: figs. 142, 143.  
 Syntypes: USNM 34419 (2 alcohol), *Albatross* 3405.  
 USNM 34426 (fragments, dry), *Albatross* 3405. Ludwig separated and cleaned three fragments from one of the alcohol specimens (USNM 34419) for illustrating purposes.  
 = *Paulia horrida* Gray, 1840. See Rowe (1977a:210–211).
- galapagensis*, *Sporasterias* Ludwig, 1905:240–242, pl. 34: figs. 202, 203.  
 Holotype: USNM 34406 (1 alcohol and dry), *Albatross* 3404.  
 The type is in poor condition. Three rays are dry, and the remainder of the specimen in alcohol is reduced to ossicles.  
 = *Tarsaster galapagensis* (Ludwig, 1905). See Fisher (1928a:75–77).
- geographicus*, *Pillsburiaster* Halpern, 1970b:3–6, figs. 1, 2 (top).  
 Holotype: USNM E11258 (1 dry), *Pillsbury* 76.  
 Paratypes: USNM E11259 (2 dry), *Pillsbury* 76.
- georgianus*, subsp., *Perknaster sladeni* Fisher, 1940:143–144, figs. B, 2–2b, pl. 5: fig. 2; pl. 6: fig. 3.  
 Paratype: USNM E17221 (1 alcohol), *Discovery* 42, South Georgia, off mouth of Cumberland Bay; 120–204 m; 1 April 1926.
- gigantea*, *Asterias* Stimpson, 1857:528–529, pl. 23: figs. 4–6.  
 Holotype: USNM 1283 (1 dry and fragment in alcohol), California, Tomales Bay; Mr. Samuels.  
 Remarks: The small fragment in alcohol was labeled “pedicellaria of type” by W.K. Fisher and returned by the California Academy of Sciences.  
 = *Pisaster giganteus* (Stimpson, 1857). See Verrill (1914a: 89–91).
- gilberti*, *Dytaster* Fisher, 1905:300–301. (Fisher, 1911a:101–105, pl. 17: figs. 1–3; pl. 53: figs. 3, 3a.)  
 Holotype: USNM 22331 (1 alcohol), *Albatross* 4397.
- globifera*, *Uniophora* Gray, 1840:288.  
 Paratype: USNM E3768 (1 dry), Australia, Tasmania (Van Diemen's Land); Ronald Gunn. Donated by the British Museum through W.K. Fisher (ex BMNH 40.3.9.6).  
 = *Uniophora granifera* (Lamarck, 1816). See Fisher (1923b:597).
- glyptodisca*, *Ferdina* Fisher, 1913c:213. (Fisher, 1919a:370–

- 373, pl. 56: fig. 5; pl. 95: figs. 4, 4a,b; pl. 104: fig. 2; pl. 106: fig. 4.)  
 Holotype: USNM 32636 (1 alcohol), *Albatross* 5640.  
*gotoi*, *Pseudonepanthia* A.H. Clark, 1916a:118–120.  
 Holotype: USNM 36899 (1 alcohol), *Albatross* 3746, Japan, off Honshu Island, Suno Saki; 49 fm (90 m); 19 May 1900.  
*gotoi*, *Psilaster* Fisher, 1913a:609–610. (Fisher, 1919a:100–103, pl. 16: figs. 3, 3a,b; pl. 20: fig. 3; pl. 21: fig. 1; pl. 30: fig. 4; pl. 35: fig. 3.)  
 Holotype: USNM 30517 (1 alcohol), *Albatross* 5468.  
*gracilis*, *Cribella* Ludwig, 1905:204–206, pl. 13: figs. 67, 68; pl. 30: fig. 178; pl. 31: fig. 179.  
 Syntypes: USNM 34373 (1 alcohol), *Albatross* 3404.  
 USNM 34374 (1 alcohol), *Albatross* 3426.  
 USNM 34375 (1 alcohol), *Albatross* 3425.  
 = *Henricia gracilis* (Ludwig, 1905). See Fisher (1911a:270).  
*gracilis*, *Hymenaster* Ludwig, 1905:198–201, pl. 15: figs. 77, 78; pl. 35: figs. 214, 215.  
 Syntypes: USNM 34367 (1 alcohol), *Albatross* 3381.  
 USNM 34368 (3 alcohol), *Albatross* 3400.  
*gracilis*, *Narcissia* A.H. Clark, 1916c:58–60.  
 Holotype: USNM 38317 (1 dry), *Albatross* 2829.  
*gracilis*, *Pectinaster* Verrill, 1915:145–147, pl. 6: fig. 1; pl. 14: fig. 4; pl. 15: figs. 1–1b.  
 Holotype: USNM 10564 (1 dry), *Albatross* 2396. Verrill reported that the locality was unknown.  
 Paratypes: USNM E42997 (2 dry), *Albatross* 2396.  
 = *Cheiraster* (*Cheiraster*) *planus* Verrill, 1915. See A.M. Clark (1981:116–117).  
*gracilis*, *Prionaster* Fisher, 1913a:603. (Fisher, 1919a:55–56, pl. 3: fig. 2; pl. 6: fig. 1; pl. 9: figs. 1, 1a,b.)  
 Holotype: USNM 30508 (1 alcohol), *Albatross* 5425.  
*graminicola*, *Echinaster* Campbell and Turner, 1984:167–176, figs. 1–3.  
 Holotype: USNM E28934 (1 dry), Florida, Sarasota Bay, Bradenton Beach, oyster bed, 27°28'12"N 082°42'06"W; 0–1 m; D.B. Campbell and R.L. Turner; 14 July 1981.  
 Paratypes: USNM E28935 (8 alcohol), Florida, Sarasota Bay, Bradenton Beach, oyster bed, 27°28'12"N 082°42'06"W; 0–1 m; D.B. Campbell and R.L. Turner; 14 July 1981.  
 USNM E28966 (16 dry), Florida, Sarasota Bay, Bradenton Beach, oyster bed, 27°28'12"N 082°42'06"W; 0–1 m; D.B. Campbell and R.L. Turner; 14 July 1981.  
 USNM E28936 (3 dry), Florida, St. Petersburg, Sunshine Skyway Causeway, seagrass bed, 27°39'00"N 082°40'30"W; 1 m; D.B. Campbell and R.L. Turner; 21 January 1978.  
*grandis*, *Archaster* Verrill, 1884:218.  
 Syntypes: USNM 6715 (35+ alcohol and dry), *Albatross* 2106.  
 USNM 6716 (60+ alcohol and dry), *Albatross* 2105.  
 USNM 9022 (3 dry), *Albatross* 2037.  
 USNM 9023 (6 alcohol), *Albatross* 2042.  
 USNM 9226 (11 alcohol), *Albatross* 2096.  
 USNM 9240 (2 dry), *Albatross* 2051.  
 USNM 24572 (1 dry), *Albatross* 2035.  
 USNM 24576 (1 dry), *Albatross* 2038.  
 = *Dytaster grandis grandis* (Verrill, 1884). See Verrill (1894:248).  
*grandis*, *Pontioceramus* Fisher, 1911d:421–422. (Fisher, 1919a:294–297, pl. 77: fig. 3; pl. 78: fig. 3; pl. 83: fig. 4; pl. 93: figs. 4, 4a,b.)  
 Holotype: USNM 28657 (1 dry), *Albatross* 5273.  
*grandis*, *Porania* Verrill, 1878:371–372.  
 Syntype: USNM 5976 (1 alcohol), Schooner *Alice G. Wonson*, sta. 89, Massachusetts, east of Georges Bank; 200 fm (366 m); Gloucester Fisheries; Capt. Anderson; August 1878.  
 = *Chondraster grandis* (Verrill, 1878). See A.M. Clark (1984:27–33).  
*grandis*, *Sideriaster* Verrill, 1899:220.  
 Holotype: USNM 10877 (1 dry), *Albatross* 2378. Although Verrill stated the USNM catalog number of his holotype both in his original description and in a later publication (1915:192–193), it was deposited in the Peabody Museum at Yale University.  
 = *Tethyaster grandis* (Verrill, 1899). See A.M. Clark and A.H. Clark (1954:17–20).  
*granuliferus*, *Pseudarchaster* Verrill, 1899:192–193, pl. 30: figs. 6, 6a.  
 Holotype: USNM 18448 (1 dry), *Albatross* 2751.  
 = *Pseudarchaster gracilis gracilis* (Sladen, 1889). See Clark and Downey (1992:262–263).  
*granulosus*, *Anthenoides* Fisher, 1913a:647. (Fisher, 1919a:333–336, pl. 88: fig. 3.)  
 Holotype: USNM 30559 (1 alcohol), *Albatross* 5626.  
*guyanensis*, *Echinaster* A.M. Clark, 1987:68–69, 73, figs. 1a, 2A, B.  
 Holotype: USNM E33593 (1 dry), *Oregon* 4190.  
 Paratypes: USNM E32677 (2 dry), *Pillsbury* 750.  
 USNM E32678 (20+ dry), *Pillsbury* 695.  
 USNM E32679 (1 dry), *Pillsbury* 1327.  
 USNM E32680 (5 dry), *Pillsbury* 1365.  
 USNM E32681 (4 dry), *Oregon* 4179.  
 USNM E32682 (1 dry), *Pillsbury* 617.  
 USNM E32683 (2 dry), *Pillsbury* 616.  
 USNM E32684 (3 dry), *Oregon* 2250.  
 USNM E32685 (7 dry), *Pillsbury* 687.  
 USNM E32686 (1 dry), *Pillsbury* 1311.  
 USNM E32687 (7 dry), *Pillsbury* 1369.  
 USNM E32688 (1 dry), *Pillsbury* 627.  
 USNM E32689 (1 dry), *Pillsbury* 625.  
 USNM E32690 (1 dry), *Pillsbury* 1363.  
 USNM E32691 (1 dry), *Pillsbury* 721.  
 USNM E32692 (2 dry), *Pillsbury* 686.  
 USNM E32693 (1 dry), *Pillsbury* 728.  
 USNM E32694 (2 dry), *Pillsbury* 792.  
 USNM E32695 (1 dry), *Pillsbury* 767.



- USNM E32696 (1 dry), *Pillsbury* 749.  
 USNM E32697 (2 dry), *Pillsbury* 773.  
 USNM E32698 (4 dry), *Pillsbury* 727.  
 USNM E32699 (1 dry), *Pillsbury* 696.  
 USNM E32700 (6 dry), *Pillsbury* 699.  
 USNM E32701 (8 dry), *Pillsbury* 669.  
 USNM E32702 (1 dry), *Pillsbury* 629.  
 USNM E32703 (3 dry), *Pillsbury* 625.  
 USNM E32704 (5 dry), *Pillsbury* 626.  
 USNM E32705 (4 dry), *Pillsbury* 624.  
 USNM E32706 (1 dry), *Pillsbury* 574.  
 USNM E32707 (3 dry), *Pillsbury* 709.  
 USNM E32708 (7 dry), *Pillsbury* 835.  
 USNM E32709 (1 dry), *Pillsbury* 1219.  
 USNM E32710 (4 dry), *Pillsbury* 1331.  
 USNM E32711 (1 dry), *Pillsbury* 1335.  
 USNM E32712 (1 dry), *Pillsbury* 1336.  
 USNM E32713 (1 dry), *Oregon* 2249.  
 USNM E32714 (1 dry), *Oregon* 4166.
- gymnochora*, *Luidia* Fisher, 1913c:204. (Fisher, 1919a:175–180, pl. 42: figs. 1, 2; pl. 44: figs. 4, 5; pl. 46: figs. 1, 1a–d.)  
 Holotype: USNM 32625 (1 alcohol), *Albatross* 5409.
- habrogenys*, *Persephonaster* Fisher, 1913a:618–619. (Fisher, 1919a:131–134, pl. 13: fig. 1; pl. 28: fig. 1; pl. 31: fig. 6; pl. 39: figs. 2, 2a–e.)  
 Holotype: USNM 30527 (1 alcohol), *Albatross* 5114.
- habrotatus*, *Nymphaster* Fisher, 1913a:639–640. (Fisher, 1919a:282–285, pl. 66: fig. 3; pl. 67: fig. 3; pl. 68: fig. 4; pl. 69: fig. 4; pl. 92: figs. 8, 8a.)  
 Holotype: USNM 30549 (1 alcohol), *Albatross* 5491.
- halicepus*, *Coronaster* Fisher, 1917a:26. (Fisher, 1919a:497–499, pl. 135: figs. 5, 5a; pl. 140; pl. 151: figs. 1, 1a–d.)  
 Holotype: USNM 37012 (1 alcohol), *Albatross* 5281.  
 Paratypes: USNM 40077 (1 alcohol, 3 rays only), *Albatross* 5621.  
 USNM 40149 (1 alcohol, 1 ray only), *Albatross* 5621.
- halperni*, *Tamaria* Downey, 1971b:46–47, fig. 2A,B.  
 Holotype: USNM E11381 (1 dry), *Oregon II* 10849.  
 Paratypes: USNM E12432 (1 dry), *Oregon II* 10513.  
 USNM E12433 (1 dry), *Oregon* 4928.  
 USNM E12434 (1 dry), *Oregon* 2643. The locality and depth are incorrect in original citation (p. 46).  
 USNM E12435 (1 dry), *Oregon* station not recorded.  
 USNM E12436 (3 dry), *Oregon* 6715.  
 USNM E12437 (1 dry), *Oregon II* 10850.
- hartti*, *Leptasterias* Rathbun, 1879:145–147.  
 Syntypes: USNM 5412 (2 dry), *Norseman*, Brazil, 30 miles east of Cape Negro, 23°20'S; 62 fm (113 m); gravelly bottom; C.F. Hartt; 1875–1877.  
 = *Allostichaster hartti* (Rathbun, 1879). See Fisher (1930:221).
- hawaiiensis*, *Astropecten* Döderlein, 1917:51, 121.  
 Syntype: USNM E9663 (1 alcohol), *Albatross* 4055.
- USNM E9664 (1 alcohol), *Albatross* 4031, Hawaii, south coast of Oahu Island, Diamond Head Light; 27–28 fm (49–51 m); 9 July 1902.
- hawaiiensis*, *Ctenophoraster* Fisher, 1906b:1015–1016, pl. 3: figs. 1, 1a–e; pl. 5: figs. 1, 2; pl. 6: figs. 1, 2.  
 Holotype: USNM 21147 (1 alcohol), *Albatross* 3935.
- hawaiiensis*, *Pentaceros* Fisher, 1906b:1072–1074, pl. 32: figs. 1–3; pl. 33: fig. 1; pl. 34: fig. 3.  
 Holotype: USNM 21171 (1 alcohol), *Albatross* 3850.  
 Paratypes: USNM 31302 (1 alcohol), *Albatross* 3849.  
 USNM 31948 (2 alcohol), *Albatross* 3849.  
 USNM 31949 (3 alcohol), *Albatross* 3850.  
 USNM 32199 (2 dry), *Albatross* 3849.
- hayashii*, *Odontohenricia* Rowe and Albertson, 1988:96–99, figs. 9A,B, 10A–F.  
 Holotype: USNM E34052 (1 dry), *Albatross* 3749, Japan, off Honshu Island, Suno Saki; 83–158 fm (152–289 m); 19 May 1900.
- heathi*, *Hippasteria* Fisher, 1905:309–310. (Fisher, 1911a: 231–233, pl. 44: figs. 1, 2; pl. 58: figs. 5, 5a; pl. 60: fig. 6.)  
 Holotype: USNM 22338 (1 dry), *Albatross* 4239, Alaska, junction of Clarence Strait and Behm Canal, center of Guard Island; 206–248 fm (377–454 m); 9 July 1903.
- hebes*, *Peltaster* Verrill, 1899:169–170, pl. 28: fig. 4.  
 Holotype: USNM 18442 (1 dry), *Albatross* 2668.  
 = *Peltaster placenta* (Müller and Troschel, 1842). See Clark and Downey (1992:257–258).
- hebes*, *Stephanasterias* Verrill, 1915:26, pl. 9: fig. 3.  
 Syntypes: USNM 18420 (51 alcohol), *Albatross* 2766.  
 Verrill incorrectly reported the catalog number as USNM 18426.  
 = *Allostichaster capensis* (Perrier, 1875). See Clark and Downey (1992:417).
- helianthus*, *Crossaster* Verrill, 1894:274–275.  
 Holotype: USNM 24787 (1 dry), Schooner *Martha Cunningham* 645; Massachusetts, off Georges Bank; 60 fm (110 m); Gloucester Fisheries; 19 March 1880.
- helonotus*, *Asterodiscus* Fisher, 1913c:210–211. (Fisher, 1919a:357–360, pl. 95: figs. 1, 1a; pl. 96: figs. 1, 2.)  
 Holotype: USNM 32633 (1 alcohol), *Albatross* 5149.  
 = *Asterodiscides helonotus* (Fisher, 1913). See Rowe (1977a:192, 202–203).
- hemiopla*, *Fromia* Fisher, 1913c:214–215. (Fisher, 1919a: 377–378, pl. 95: fig. 3; pl. 105: fig. 2; pl. 106: fig. 3; pl. 107: figs. 2, 4.)  
 Holotype: USNM 32638 (1 alcohol), *Albatross* shore station, Philippines, Mindanao, South of Zamboanga, Tonquil Island, Gumila Reef.
- heteropaes*, *Sclerasterias* Fisher, 1924a:7–8. (Fisher, 1928a:112–118, pl. 52: fig. 3; pl. 54; pl. 56: fig. 2.)  
 Holotype: USNM E1427 (1 alcohol), *Albatross* 4554, California, Monterey Bay, Point Pinos Light House; 60–80 fm (110–146 m); 9 June 1904.
- heterozona*, *Luidia* Fisher, 1940:265, figs. M, 4–4c, pl. 23.

- Holotype:** USNM E10075 (1 ray, alcohol), *Discovery* 272.  
**Paratype:** USNM E10076 (1 alcohol), *Discovery* 279, Gabon, east of Cape Lopez; 58–67 m; 10 August 1927.
- hexactis*, *Asterias* Stimpson, 1862:272–273.  
**Syntypes:** USNM 1368 (15 dry), Washington, Puget Sound; Northwest Boundary Commission, Dr. C.B. Kennerly. Fisher (1928a:107–109) considered these specimens not to be typical forma *hexactis*, and, in fact, labeled one specimen as forma *regularis* Verrill and 14 specimens as forma *plena* Verrill.  
 USNM E3987 (3 dry), Washington, Puget Sound; Northwest Boundary Commission, Dr. C.B. Kennerly. Fisher (1928a:107–109) segregated these three specimens from the original lot, USNM 1368 as being typical forma *hexactis*.  
 = *Leptasterias hexactis* (Stimpson, 1862). See Verrill (1914a:126–128).
- hexactis*, *Pteraster* (*Temnaster*) Verrill, 1894:275–277.  
**Holotype:** USNM 12004 (1 alcohol), *Albatross* 2433. Specimen in poor condition, deteriorated, reduced to ossicles.  
 = *Pteraster obscurus* (Perrier, 1891a). See Clark and Downey (1992:333–334).
- hirsutus*, *Zoroaster* Ludwig, 1905:172–177, pl. 28: figs. 161, 162; pl. 29: fig. 168.  
**Holotype:** USNM 34382 (1 alcohol), *Albatross* 3415.
- hispidella*, *Leptasterias* Verrill, 1895:210.  
**Syntypes:** USNM 12118 (4 dry), *Albatross* 2494. Verrill reported only two specimens in his description. He provided measurements for only one of the two specimens he described, therefore it is not possible to determine which two specimens he intended to be the types.
- hispidus*, *Odontaster* Verrill, 1880b:402.  
**Holotype:** USNM 33313 (1 dry), *Fish Hawk* (station not recorded); Rhode Island, off Newport; 1880.  
**Paratypes:** USNM E42998 (1 dry), *Fish Hawk* (station not recorded); Rhode Island, off Newport; 1880. Specimen segregated from USNM 33313.  
 USNM 9383 (14 dry), *Fish Hawk* 871.  
 USNM 9384 (8 alcohol), *Fish Hawk* 872.  
 USNM 9385 (2 dry), *Fish Hawk* 873.  
 USNM 13568 (2 dry), *Fish Hawk* 865.  
 USNM 24744 (2 dry), *Fish Hawk* 894.
- horridus*, *Cheiraster* Fisher, 1906b:1042–1043, pl. 10: figs. 5, 5a; pl. 17: fig. 3; pl. 18: fig. 2.  
**Holotype:** USNM 21156 (1 alcohol), *Albatross* 4079.
- hylacanthus*, *Pectinaster* Fisher, 1913c:204–205. (Fisher, 1919a:187–190, pl. 48: fig. 2; pl. 49: fig. 3; pl. 54: fig. 1.)  
**Holotype:** USNM 32626 (1 alcohol), *Albatross* 5467.  
**Remarks:** In Fisher (1919a), both the plate reference (p. 187) and the plate caption for the enlarged actinal aspect of the type are in error.  
 = *Pectinaster mimicus hylacanthus* (Fisher, 1913). See Döderlein (1921:36–37).
- hylodes*, *Leptasterias* Fisher, 1930:35–40, pl. 10: figs. 5–11; pl. 17; pl. 18: figs. 1–3.  
**Holotype:** USNM E1490 (1 alcohol), *Albatross* 2851.  
**Paratypes:** USNM 4191 (1 dry), Alaska, Shumagin Islands, Popof Strait; W.H. Dall.  
 USNM 6065 (1 dry), Alaska, Shumagin Islands, Unga Island, Round Island, Coal Harbor; W.H. Dall; 1872.  
 USNM 6075 (1 dry), Alaska, Aleutian Islands, Unalaska, Captains Harbor; 9–15 fm (17–27 m); W.H. Dall; 1874.  
 USNM E3500 (2 dry), *Albatross* (station not recorded). Alaska, Kodiak Island; 1888.  
 USNM E3518 (2 dry), *Albatross* 2850.  
 USNM E3994 (2 dry), *Albatross* 2856.  
 USNM E3995 (1 dry), *Albatross* 3265.  
 USNM E3996 (1 dry), *Albatross* 3266.  
 USNM E3997 (1 dry), *Albatross* 3220.  
 USNM E3998 (1 dry), *Albatross* 3291.  
 USNM E10082 (87 alcohol), *Albatross* 2846.  
 USNM E10156 (87 alcohol), many station number labels in jar. Labels not attached to specific specimens. *Albatross* 2845, 2847, 2856, 3265.  
 USNM E42501 (1 alcohol), *Albatross* 4284, Alaska, Chignik Bay, Tuliumnit Point; 26–30 fm (48–55 m); 10 August 1903.  
 USNM E42502 (1 alcohol), *Albatross* 4285, Alaska, Chignik Bay, Tuliumnit Point; 31–59 fm (57–108 m); 10 August 1903.  
 USNM E42503 (1 alcohol), *Albatross* 4281, Alaska, Chignik Bay, Tuliumnit Point; 42–43 fm (77–79 m); 10 August 1903.  
 USNM E42504 (2 alcohol), *Albatross* 3214.  
 USNM E42505 (2 alcohol), *Albatross* 3260.  
 USNM E42506 (3 alcohol), *Albatross* 3219.  
 USNM E42507 (1 alcohol), *Albatross* 2851.  
 USNM E42508 (2 alcohol), *Albatross* 3232.  
 USNM E42509 (3 alcohol), *Albatross* shore station, Alaska, Aleutian Islands, Agattu Island; low tide; 8 June 1906.  
 USNM E42510 (4 alcohol), *Albatross* 2847.  
 USNM E42511 (1 alcohol), *Albatross* 2856.
- hypacantha*, *Distolasterias* Fisher, 1917b:92. (Fisher, 1919a:487–489, pl. 141: fig. 3; pl. 151: figs. 5, 5a.)  
**Holotype:** USNM 37032 (1 alcohol), *Albatross* 5417.
- hypacanthus*, subsp., *Paragonaster ctenipes* Fisher, 1913a:627. (Fisher, 1919a:228–232, pl. 70: fig. 3; pl. 71: fig. 2; pl. 72: fig. 1; pl. 91: figs. 9, 9a.)  
**Holotype:** USNM 30536 (1 alcohol), *Albatross* 5273.
- hyperoncus*, *Pedicellaster* H.L. Clark, 1913:201–202, pl. 44: figs. 3, 4.  
**Holotype:** USNM 31639 (1 dry), *Albatross* 5675.  
 = *Ampheraster hyperoncus* (H.L. Clark, 1913). See Fisher (1928a:80–81).
- hypothrissus*, *Solaster* Fisher, 1910d:574. (Fisher, 1911a:324–325, pl. 93: figs. 1, 2; pl. 113: figs. 5, 5a.)

- Syntypes: USNM 27787 (2 alcohol), *Albatross* 3338.  
*hystrix*, *Luidia* Fisher, 1906b:1032–1033, pl. 13: figs. 1, 2; pl. 14: figs. 1, 2; pl. 15: figs. 2, 2a.  
 Holotype: USNM 21153 (1 alcohol), *Albatross* 3876.  
 Paratypes: USNM 31405 (1 alcohol), *Albatross* 3861.  
 USNM 31406 (1 alcohol), *Albatross* 3987.  
 USNM 31407 (1 alcohol), *Albatross* 4024. The station label attached to the specimen states *Albatross* 4024; however, in the record of localities, Fisher did not include this station. It is possible that he incorrectly included this specimen with the entry for *Albatross* 4034.  
 USNM 31408 (1 alcohol), *Albatross* 4031, Hawaii, south coast of Oahu Island, Diamond Head Light; 27–28 fm (49–51 m); 9 July 1902.  
 USNM 31409 (1 alcohol), *Albatross* 4034, Hawaii, south coast of Oahu Island, Diamond Head Light; 14–28 fm (26–51 m); 9 July 1902.  
 USNM 31410 (1 alcohol), *Albatross* 4082. The station label attached to the specimen states *Albatross* 4082. Although this station does not appear in Fisher's list of localities, *Albatross* 4032 is included. Because there are no type specimens labeled *Albatross* 4032, it is possible that Fisher simply recorded an erroneous station in his publication.  
 USNM 31411 (1 alcohol), *Albatross* 4158, Hawaii, center of Bird Island (Nihoa Island); 20–30 fm (37–55 m); 7 August 1902. The station label attached to the specimen states *Albatross* 4158. Although this station does not appear in Fisher's list of localities, *Albatross* 4168 is included. It is possible that Fisher incorrectly cited station 4168 rather than station 4158.  
*imperialis*, *Dipsacaster* Fisher, 1917b:89. (Fisher, 1919a:146–151, pl. 32: figs. 1, 2; pl. 40: figs. 1, 1a,b; pl. 41: figs. 1, 1a.)  
 Holotype: USNM 37037 (1 alcohol), *Albatross* 5115.  
*improvisus*, *Pedicellaster* Ludwig, 1905:216–220, pl. 35: figs. 207–212.  
 Syntypes: USNM 34432 (2 alcohol), *Albatross* 3362.  
 USNM 34433 (1 alcohol and dry), *Albatross* 3400. Two rays of specimen are dry.  
 USNM 34434 (3 alcohol), *Albatross* 3407.  
 = *Hydrasterias improvisa* (Ludwig, 1905). See Fisher (1923a:251).  
*inaequalis*, subsp., *Astropecten vappa* Fisher, 1919a:69–70.  
 Holotype: USNM 40124 (1 alcohol), *Albatross* 5174.  
*inermis*, *Parastropecten* Ludwig, 1905:76–80, pl. 4: figs. 21, 22; pl. 21: fig. 117; pl. 22: fig. 126.  
 Syntype: USNM 34430 (1 alcohol), *Albatross* 3353.  
 Remarks: Ludwig examined two specimens but the one from *Albatross* 3371 is missing from the USNM collections.  
 = *Leptychaster inermis* (Ludwig, 1905). See Fisher (1911a:42, 53).  
*inermis*, var., *Porcellanaster vicinus* Ludwig, 1907:318.  
 Syntypes: USNM E9778 (1 dry), *Albatross* 4672.  
 USNM E9782 (1 dry), *Albatross* 4670.  
 = *Eremicaster vicinus inermis* (Ludwig, 1907). See Fisher (1907:12–14).  
*inops*, *Cheiraster* Fisher, 1906b:1043–1044, pl. 10: fig. 4; pl. 17: fig. 2.  
 Holotype: USNM 21157 (1 alcohol), *Albatross* 3865.  
 Paratypes: USNM 31454 (4 alcohol), *Albatross* 3474.  
 USNM 31483 (1 alcohol), *Albatross* 3474.  
*insignis*, *Anseropoda* Fisher, 1906b:1088–1089, pl. 38: figs. 1, 1a.  
 Holotype: USNM 21180 (1 alcohol), *Albatross* 4101.  
 Paratypes: USNM 32198 (1 alcohol), *Albatross* 4101.  
 USNM E41462 (1 dry), *Albatross* 3835.  
*insignis*, *Freyella* Ludwig, 1905:272–280, pl. 32: figs. 188, 189.  
 Syntypes: USNM 34348 (6 alcohol), *Albatross* 3382.  
 USNM 34349 (2 alcohol), *Albatross* 3381.  
 USNM 34350 (2 alcohol), *Albatross* 3399.  
 Remarks: The rays of all the syntypes are so fragmented and some discs so deteriorated that an accurate specimen count is now impossible.  
*insignis*, *Perissogonaster* Fisher, 1913a:628–629. (Fisher, 1919a:236–239, pl. 73: fig. 1; pl. 74: fig. 2; pl. 91: figs. 8, 8a.)  
 Holotype: USNM 30538 (1 alcohol), *Albatross* 5113.  
*insignis*, *Porania* Verrill, 1895:138–139.  
 Lectotype: USNM 5534 (1 alcohol), *Fish Hawk* 1097.  
 Paralectotypes: USNM 4113 (5 alcohol), *Fish Hawk* 1046.  
 USNM 5027 (1 alcohol), *Fish Hawk* 1043.  
 USNM 5531 (1 alcohol), *Fish Hawk* 1109.  
 USNM 5532 (1 alcohol), *Fish Hawk* 1117.  
 USNM 5533 (2 dry), *Fish Hawk* 1092.  
 USNM 5535 (5 alcohol), *Fish Hawk* 1098.  
 USNM 6349 (1 dry), *Albatross* 2027.  
 USNM 6354 (3 alcohol), *Albatross* 2014.  
 USNM 6362 (12 alcohol), *Albatross* 2011.  
 USNM 6385 (1 dry), *Albatross* 2012.  
 USNM 7698 (1 dry), *Albatross* 2183.  
 USNM 7700 (2 dry), *Albatross* 2177.  
 USNM 8328 (5 alcohol), *Albatross* 2264.  
 USNM 8329 (3 alcohol), *Albatross* 2265.  
 USNM 8457 (9 alcohol), *Albatross* 2264.  
 USNM 9505 (2 alcohol), *Fish Hawk* 940.  
 USNM 9506 (2 alcohol), *Fish Hawk* 949.  
 USNM 9735 (5 alcohol), *Fish Hawk* 1046.  
 USNM 9736 (1 alcohol), *Fish Hawk* 865.  
 USNM 11019 (10 alcohol), *Albatross* 2422.  
 USNM 13013 (1 alcohol), *Fish Hawk* 1097.  
 USNM 13014 (1 alcohol), *Fish Hawk* 1108.  
 USNM 13453 (1 alcohol), *Fish Hawk* 1097.  
 USNM 17996 (2 alcohol), *Fish Hawk* 1109.  
 USNM 17997 (1 alcohol), *Fish Hawk* 1117.  
 USNM 17998 (1 alcohol), *Fish Hawk* 923.  
 USNM 18496 (4 alcohol and dry), *Albatross* 2420. Three



- specimens in poor condition, deteriorated.  
USNM E30126 (5 alcohol), *Fish Hawk* 1097.  
Remarks: Clark and Downey (1992:210–211) designated the lectotype.  
= *Porania pulvillus insignis* Verrill, 1895. See A.M. Clark (1984:47–48).
- insignis*, var., *Pseudarchaster intermedius* Verrill, 1895:132.  
Holotype: USNM 11818 (1 dry), *Albatross* 2571. Specimen is labeled type in Verrill's handwriting.  
= *Pseudarchaster parelii* (Düben and Koren, 1846). See Halpern (1972:366–369).
- insignis*, *Saraster* A.H. Clark, 1916c:54–56.  
Holotype: USNM 36895 (1 alcohol), *Albatross* 2992.  
Specimen in poor condition, reduced to ossicles and few arm fragments.  
= *Nearchaster aciculosus* (Fisher, 1910). See A.M. Clark (1981:95).
- intermedius*, *Acantharchaster* Fisher, 1910c:551. (Fisher, 1911a:141–142, pl. 24: fig. 3; pl. 27: fig. 1; pl. 118: figs. 1a, 1–1f.)  
Holotype: USNM 27802 (1 alcohol), *Albatross* 4530, California, Monterey Bay, Point Pinos Light House; 755–958 fm (1381–1752 m); 27 May 1904.  
= *Myonotus intermedius* (Fisher, 1910). See Fisher (1911c:92).
- japonica*, *Poraniopsis* Fisher, 1939:469–472, pls. 55, 56.  
Holotype: USNM E5603 (1 alcohol), *Albatross* 5049.
- japonicus*, *Solaster* Fisher, 1911a:330, figs. 1, 2.  
Holotype: USNM 27788 (1 alcohol), *Albatross* 4818.  
Paratypes: USNM 33061 (8 alcohol), *Albatross* 4818.  
USNM 33062 (4 alcohol), *Albatross* 4867.  
USNM 33063 (1 alcohol), *Albatross* 4871.
- jordani*, *Pseudarchaster* Fisher, 1906b:1038–1039, pl. 10: figs. 7, 7a; pl. 19: figs. 2, 2a.  
Holotype: USNM 21159 (1 alcohol), *Albatross* 3474.  
Paratype: USNM 31518 (1 alcohol), *Albatross* 3474.  
Remarks: The original publication recorded 2 specimens for USNM 21159; however, Fisher labeled one specimen as the holotype and the other as paratype.
- jordani*, *Pteraster* Fisher, 1905:314. (Fisher, 1911a:350–352.)  
Holotype: USNM 22343 (1 alcohol), *Albatross* 4354, California, vicinity of San Diego, Point Loma Light House; 646–650 fm (1182–1189 m); 14 March 1904.  
Specimen in poor condition, deteriorated, reduced to ossicles, few fragments.
- katherinae*, *Asterias* Gray, 1840:179.  
Paratype: USNM E3767 (1 dry), Washington-Oregon border, mouth of Columbia River. Specimen donated by the British Museum through W.K. Fisher (ex BM 38.7.15.111).  
= *Leptasterias polaris katherinae* (Gray, 1840). See Fisher (1923b:599).
- kieri*, *Hymenaster* Downey, 1979b:801–803, fig. 1.  
Holotype: USNM E18204 (1 dry), *Gilliss* 74-04, sta. 87.  
= *Hymenaster regalis* Verrill, 1895. See Clark and Downey (1992:320–321).  
Remarks: *H. kieri* is a junior objective synonym of *H. regalis* as the holotype was designated the neotype of Verrill's *regalis* by Clark and Downey (1992:320–321).
- koehleri*, *Hymenaster* Fisher, 1910a:170. (Fisher, 1911a:373–376, pl. 108: fig. 1; pl. 117: fig. 4.)  
Holotype: USNM 27795 (1 alcohol), *Albatross* 3603.  
*koehleri*, *Rhopiella* Fisher, 1940:160–162, figs. E, 2–2d, pl. 10: figs. 1, 2.  
Paratype: USNM E17223 (1 alcohol), *Discovery* 363, South Sandwich Islands, off SE point of Zavodovski Island; 278–329 m; 26 February 1930.
- kubini*, *Heliaster* Xantus, 1861:568.  
Syntypes: USNM 630 (10 dry and 4 alcohol), Mexico, Baja California, Cerro Blanco off Cape San Lucas.
- kurilensis*, subsp., *Hippasteria spinosa* Fisher, 1911a:226–227, pl. 43: fig. 2; pl. 121: fig. 1.  
Holotype: USNM 27885 (1 alcohol), *Albatross* 4804.  
Paratypes: USNM 32103 (3 alcohol), *Albatross* 4804.  
USNM 32106 (3 alcohol), *Albatross* 4803.  
= *Hippasteria kurilensis* Fisher, 1911. See Djakonov (1950:47).
- lacrimulus*, *Asterodiscides* Rowe, 1977a:206–207, fig. 5a–c.  
Holotype: USNM E15833 (1 dry), IIOE, *Anton Bruun* cruise 9, sta. 444.
- laetmophilus*, *Dipsacaster* Fisher, 1910c:547. (Fisher, 1911a:95–97, pl. 12: fig. 3; pl. 15: figs. 1, 2; pl. 52: figs. 3, 3a,b; pl. 53: fig. 2.)  
Holotype: USNM 24672 (1 alcohol), *Albatross* 3340.
- leipelta*, *Hippasteria* Fisher, 1910c:553. (Fisher, 1911a:227–229, pl. 46: figs. 1–4; pl. 58: fig. 6.)  
Holotype: USNM 27886 (1 alcohol), *Albatross* 4795.  
Specimen in poor condition, deteriorated, reduced to ossicles.
- lepidonotus*, *Cryptopeltaster* Fisher, 1905:311–312. (Fisher, 1911a:238–240, pl. 47: figs. 1, 2; pl. 58: figs. 4, 4a; pl. 60: fig. 7.)  
Holotype: USNM 22340 (1 alcohol), *Albatross* 4430, California, south coast of Santa Cruz Island, Gull Islet; 197–281 fm (360–514 m); 14 April 1904.
- lepidus*, *Poranisca* Verrill, 1914b:19, pl. 1: fig. 3.  
Holotype: USNM 18485 (1 dry), *Albatross* 2265. The station number, and therefore the locality, eastern coast of the United States is questionable because the original station label gives “23” as the first two numerals and the last two are obliterated. A.M. Clark (1984:25) and Clark and Downey (1992:205–206) discussed the probable error in locality.  
= *Marginaster pectinatus* Perrier, 1881. See A.M. Clark (1984:25).
- leptocerama*, *Tosia* Fisher, 1905:306–307. (Fisher, 1911a: 210–214, pl. 39: figs. 1–3; pl. 58: figs. 3, 3a; pl. 60: fig. 2.)  
Holotype: USNM 22336 (1 alcohol), *Albatross* 4378,



- California, vicinity of San Diego, Point Loma Light House; 376–594 fm (688–1086 m); 17 March 1904.  
= *Ceramaster leptoceramus* (Fisher, 1905). See Fisher (1911a:210–214).
- leptodoma*, *Leptasterias* Fisher, 1930:105–107, pl. 43: figs. 2, 2a,b; pl. 50: fig. 6.  
Holotype: USNM E1497 (1 dry), Alaska, Shumagin Islands Unga Island, Humboldt Bay.  
Paratypes: USNM 10038 (1 dry), Alaska, Shumagin Islands, Unga Island, Popof Strait; W.H. Dall.  
USNM E8921 (1 dry), Alaska, Aleutian Islands, Adak Island; low tide; W.H. Dall.  
USNM E8940 (1 dry), Alaska, Aleutian Islands, Atka Island, Nazan Bay; low tide; sta. 535 (1058); W.H. Dall; 1873.  
USNM E28317 (9 dry), *Albatross* shore station; Alaska, Aleutian Islands, Agattu Island; 8 June 1906.  
USNM E28318 (1 dry), *Albatross* shore station; Alaska, Aleutian Islands, Unalaska Island; low tide; 16 June 1890.  
USNM E28319 (1 dry), Alaska, Aleutian Islands, Atka Island; low tide.  
USNM E28320 (1 dry), Alaska, Aleutian Islands, Adak Island.
- leptodomus*, *Nymphaster* Fisher, 1913a:637. (Fisher, 1919a: 272–274, pl. 66: fig. 1; pl. 67: fig. 1; pl. 68: fig. 3; pl. 69: fig. 3; pl. 92: figs. 2, 2a,b.)  
Holotype: USNM 30545 (1 alcohol), *Albatross* 5216.
- leviuscula*, *Linckia* Stimpson, 1857:529.  
Holotype: USNM 3357 (1 dry), Washington, Puget Sound; Dr. G. Suckley.  
= *Henricia leviuscula* (Stimpson, 1857). See Fisher (1910d:569–570).
- lionotus*, *Astroceramus* Fisher, 1913a:643. (Fisher, 1919a: 310–313, pl. 81: fig. 1; pl. 82: fig. 1; pl. 84: fig. 3; pl. 94: figs. 2, 2a.)  
Holotype: USNM 30555 (1 alcohol), *Albatross* 5523.
- lisa*, *Henricia* A.H. Clark, 1949:374–375.  
Holotype: USNM E7774 (1 dry), *Atlantis* cruise 152, sta. 8.
- lithosorus*, *Anthenoides* Fisher, 1913a:647–648. (Fisher, 1919a:336–338, pl. 89: fig. 2; pl. 90: fig. 2; pl. 94: figs. 6, 6a–c.)  
Holotype: USNM 30560 (1 alcohol), *Albatross* 5301.
- littoralis*, *Asteracanthion* Stimpson, 1853:14.  
Syntype: USNM 1315 (1 dry), New Brunswick, Grand Manan, middle region of the littoral zone; W. Stimpson; summer 1852.  
= *Leptasterias littoralis* (Stimpson, 1853). See Verrill (1879b:14).
- longispina*, *Henricia* Fisher, 1910d:572–573. (Fisher, 1911a:299–300, pl. 76: figs. 1, 2; pl. 111: figs. 3, 3a.)  
Holotype: USNM 27783 (1 alcohol), *Albatross* 4199, British Columbia, Vancouver Island, Queen Charlotte Strait, center of Round Island off Fort Rupert; 68–107 fm (124–196 m); 25 June 1903.
- longispinus*, *Zoroaster* Ludwig, 1905:180–185, pl. 14: figs. 71–74; pl. 29: figs. 169, 170.  
Syntypes: USNM 34384 (1 alcohol), *Albatross* 3400.  
USNM 34385 (1 alcohol), *Albatross* 3435.  
USNM 34386 (1 alcohol), *Albatross* 3357. Juvenile specimen, arm fragments only.
- lorioli*, *Ophidiaster* Fisher, 1906b:1077–1079, pl. 31: figs. 4, 4a–d; pl. 39: fig. 3.  
Holotype: USNM 21173 (1 alcohol), *Albatross* 3834.  
Paratype: USNM E9594 (1 dry), *Albatross* 3834.
- ludwigi*, *Cheiraster* Fisher, 1913c:205–206. (Fisher, 1919a:203–205, pl. 48: fig. 1; pl. 49: fig. 2; pl. 55: figs. 2, 2a.)  
Holotype: USNM 32627 (1 alcohol), *Albatross* 5660.
- ludwigi*, *Luidia* Fisher, 1906a:122–124. (Fisher, 1911a:113–116, pl. 20: figs. 2, 3; pl. 21: fig. 2; pl. 54: figs. 2, 2a.)  
Holotype: USNM 21928 (1 alcohol), *Albatross* 2970.
- lutkeni*, *Asterias* Stimpson, 1862:265–266.  
Holotype: USNM 1281 (1 dry), Oregon.  
= *Pisaster giganteus* (Stimpson, 1857). See Fisher (1926a:561–562).
- luzonicus*, *Astropecten* Fisher, 1913a:606. (Fisher, 1919a:82–84, pl. 12: fig. 2; pl. 13: fig. 3; pl. 14: figs. 4, 4a,b.)  
Holotype: USNM 30512 (1 alcohol), *Albatross* 5112.
- luzonicus*, *Persephonaster* Fisher, 1913a:614–615. (Fisher, 1919a:118–121, pl. 23: fig. 3; pl. 24: fig. 1; pl. 36: figs. 3, 3a,b.)  
Holotype: USNM 30522 (1 alcohol), *Albatross* 5326.
- lymani*, *Copidaster* A.H. Clark, 1948b:56–58, pl. 2: figs. 1, 2.  
Holotype: USNM E7177 (1 dry), Florida, outer reefs of Key Largo; F.B. Lyman; September 1947.
- macropora*, *Anseropoda* Fisher, 1913c:219. (Fisher, 1919a:424–425, pl. 110: fig. 3; pl. 131: fig. 3.)  
Holotype: USNM 32645 (1 alcohol), *Albatross* 5146.
- madeirensis*, *Asterias* Stimpson, 1862:263.  
Holotype: USNM 1241 (1 dry), Madeira Islands; W. Stimpson.  
= *Marthasterias glacialis* (Linnaeus, 1758). See Mortensen (1927:143–145).
- madseni*, subsp., *Echinaster sepositus* Clark and Tortonese, 1986:66–71, fig. 1.  
Paratype: USNM E33592 (1 dry), *Pillsbury* 63.
- magister*, *Odinia* Fisher, 1917b:93. (Fisher, 1919a:507–509, pl. 143: figs. 1, 2; pl. 144: fig. 2; pl. 151: fig. 4; pl. 152: figs. 3, 3a.)  
Holotype: USNM 37026 (1 alcohol), *Albatross* 5258. Two rays only.  
= *Novodinia magister* (Fisher, 1917). See Dartnall et al. (1969:211).
- magister*, *Pedicellaster* Fisher, 1923a:251. (Fisher, 1928a:59–64, pl. 33: fig. 5.)  
Holotype: USNM E1418 (1 alcohol), *Albatross* 4792.  
Paratype: USNM E16039 (1 alcohol), *Albatross* 4792.

- magnifica*, *Luidia* Fisher, 1906b:1033–1036, pl. 15: figs. 1–3; pl. 16: figs. 1, 1a.  
Holotype: USNM 21154 (1 alcohol), *Albatross* 3849.
- magnificus*, *Zoroaster* Ludwig, 1905:159–164, pl. 26: figs. 146–148; pl. 27: figs. 149, 150.  
Syntypes: USNM 34383 (2 alcohol), *Albatross* 3360. Both specimens are fragmented.
- magnus*, *Thoracaster* Ludwig, 1907:313–314.  
Syntypes: USNM E933 (2 alcohol), *Albatross* 4649.  
USNM E4907 (1 dry), *Albatross* 4658.  
USNM E4912 (1 dry), *Albatross* 4658.  
USNM E4909 (2 dry), *Albatross* 4717.  
= *Thoracaster cylindratus* Sladen, 1883. See Clark and Downey (1992:105–106).
- malpeloensis*, subsp., *Narcissia gracilis* Downey, 1975:87.  
Holotype: USNM E11837 (1 dry), Colombia, Malpelo Island, on rubble near base of vertical rock wall; 160 ft (48.8 m); sta. 4; C. Birkeland; 2 May 1972.  
Paratypes: USNM E11836 (5 dry), Colombia, Malpelo Island; 120–160 ft (36.6–48.8 m); sta. 4 and 5; C. Birkeland; 1–2 May 1972.
- mamillatus*, *Rosaster* Fisher, 1913a:632–633. (Fisher, 1919a:247–250, pl. 56: figs. 3, 4; pl. 61: figs. 3, 4; pl. 91: figs. 5, 5a).  
Holotype: USNM 30541 (1 alcohol), *Albatross* 5481.
- marchenus*, *Coronaster* Ziesenhenné, 1942:210–213, pl. 33: figs. 5–6; pl. 34: figs. 2–6.  
Paratype: USNM E9633 (1 alcohol), *Velero III*, sta. 310–35, Allan Hancock Pacific Expedition. Two rays only.
- mariana*, *Sporasterias* Ludwig, 1905:231–235, pl. 33: figs. 194–198.  
Syntypes: USNM 34407 (4 alcohol and dry), *Albatross* 3425.  
Six dried unassociated arms and many fragile arm fragments, no discs, in alcohol.  
= *Ampheraster marianus* (Ludwig, 1905). See Fisher (1928a:80–83).
- marquesensis*, *Ctenophoraster* Marsh, 1974:71–73, figs. 1–3.  
Paratypes: USNM E11586 (1 dry), *Pele* sta. NH-XV, Marquesas Islands, Nuku Hiva; 43–45 fm (79–82 m); 22 September 1967.  
USNM E11587 (1 dry), *Pele* sta. TH-X, Marquesas Islands, Tahuata Island; 40 fm (73 m); 1 October 1967.  
USNM E11588 (1 dry), *Pele* sta. NH-VIII, Marquesas Islands, Nuku Hiva; September 1967.  
USNM E11589 (2 dry), *Pele* sta. TH-I, Marquesas Islands, Tahuata Island; 43–45 fm (79–82 m); 28 September 1967.  
USNM E11590 (1 dry), *Pele* sta. UP-II, Marquesas Islands, Ua Pou Island; 39–43 fm (71–79 m); 23 September 1967.
- marsippus*, *Pteraster* Fisher, 1910a:168–169. (Fisher, 1911a:352–354, pl. 100: fig. 1; pl. 101: fig. 2; pl. 115: fig. 4; pl. 116: fig. 1).  
Holotype: USNM 27791 (1 alcohol), *Albatross* 4784.
- maya*, *Floriaster* Downey, 1980:347–348, figs. 1a,b, 2a,b.  
Holotype: USNM E18324 (1 dry), *Alaminos* 70-A-10, sta. 6.
- medusa*, *Asthenactis* Fisher, 1913c:224. (Fisher, 1919a:454–456, pl. 134: figs. 2, 2a–e).  
Holotype: USNM 32650 (1 alcohol), *Albatross* 5605.  
= *Myxaster medusa* (Fisher, 1913). See Fisher (1919a:454–456).
- megalabis*, subsp., *Pedicellaster magister* Fisher, 1928a:64–66, pl. 16: fig. 4; pl. 26: figs. 3, 3a–e; pl. 27: figs. 4, 4a; pl. 28: fig. 2; pl. 34: figs. 2, 3.  
Holotype: USNM E1419 (1 alcohol), *Albatross* 4335, California, vicinity of San Diego, Point Loma Light House; 500–530 fm (916–969 m); 9 March 1904.  
Paratypes: USNM E16038 (1 alcohol), *Albatross* 4351, California, vicinity of San Diego, Point Loma Light House; 423–488 fm (774–893 m); 14 March 1904.  
USNM E16042 (3 alcohol), *Albatross* 2928.  
USNM E16097 (3 alcohol), *Albatross* 4333, California, vicinity of San Diego, Point Loma Light House; 301–487 fm (551–891 m); 9 March 1904.  
USNM E16278 (2 alcohol), *Albatross* 4333, California, vicinity of San Diego, Point Loma Light House; 301–487 fm (551–891 m); 9 March 1904.  
USNM E16279 (1 alcohol), *Albatross* 4334, California, vicinity of San Diego, Point Loma Light House; 514–541 fm (940–989 m); 9 March 1904.  
USNM E16280 (1 alcohol), *Albatross* 4335, California, vicinity of San Diego, Point Loma Light House; 500–530 fm (915–969 m); 9 March 1904.  
USNM E16282 (1 alcohol), *Albatross* 2892.  
USNM E16283 (1 alcohol), *Albatross* 2925.  
USNM E16284 (2 alcohol), *Albatross* 3347.  
Remarks: Fisher recorded only 4 specimens from *Albatross* 4333.
- megaloplax*, *Prionaster* Fisher, 1913a:603–604. (Fisher, 1919a:56–59, pl. 4: fig. 3; pl. 5: fig. 1; pl. 9: figs. 2, 2a,b).  
Holotype: USNM 30509 (1 alcohol), *Albatross* 5624.
- megatretus*, subsp., *Anteliaster coscinactis* Fisher, 1928a:71–73, pl. 29: figs. 2, 2a,b; pl. 35: figs. 5, 5a.  
Holotype: USNM 32477 (1 dry), *Albatross* 5675.
- meseres*, *Nymphaster* Fisher, 1913a:639. (Fisher, 1919a:280–282, pl. 66: fig. 2; pl. 67: fig. 2; pl. 68: fig. 2; pl. 69: fig. 2; pl. 92: figs. 4, 4a.)  
Holotype: USNM 30548 (1 alcohol), *Albatross* 5115.
- mexicana*, *Anthenea* A.H. Clark, 1916c:56–58.  
Holotype: USNM 38318 (1 dry), Mexico, off west coast; A. Duges.
- mexicana*, *Freyella* A.H. Clark, 1939a:442–446.  
Holotype: USNM E5602 (1 dry), *Albatross* 2379.  
= *Freyastera mexicana* (A.H. Clark, 1939). See Downey (1986:38–40).
- microbrachia*, *Heliaster* Xantus, 1861:568.  
Holotype: USNM 2017 (1 dry), Mexico, Baja California, Cape San Lucas.

- microceramus*, *Aphroditaster* Fisher, 1913a:626–627. (Fisher, 1919a:225–228, pl. 59: fig. 2; pl. 60: fig. 1; pl. 70: fig. 5; pl. 91: fig. 1.)  
 Holotype: USNM 30535 (1 dry), *Albatross* 5648.  
 = *Fisheraster microceramus* (Fisher, 1913). See Halpern (1970b:2).
- microgenys*, *Anteliaster* Fisher, 1928a:73–74, pl. 30: figs. 1, 1a–e; pl. 35: fig. 3; pl. 36: fig. 1.  
 Holotype: USNM E1422 (1 alcohol), *Albatross* 2951.
- micropelia*, *Tosia* (*Ceramaster*) Fisher, 1906b:1054–1055, pl. 21: fig. 2; pl. 26: figs. 4, 4a.  
 Holotype: USNM 21164 (1 alcohol), *Albatross* 4151, Hawaii, center of Bird Island (Nihoa Island); 313–871 fm (572–1533 m); 5 August 1902.
- microplax*, *Freyellidea* Fisher, 1917d:430. (Fisher, 1928a:25–27, pl. 10: fig. 2.)  
 Holotype: USNM E1415 (1 alcohol), *Albatross* 3342.  
 = *Freyella microplax* (Fisher, 1917). See Fisher (1919a:538).
- microplax*, *Henricia* Fisher, 1917b:91. (Fisher, 1919a:437–439, pl. 120: figs. 3, 5; pl. 121: fig. 2; pl. 132: fig. 3.)  
 Holotype: USNM 37006 (1 alcohol), *Albatross* 5518.
- microporus*, *Zoroaster* Fisher, 1916b:30. (Fisher, 1919a:475–477, pl. 134: figs. 4, 4a; pl. 136: fig. 2; pl. 139: fig. 4.)  
 Holotype: USNM 37009 (1 alcohol), *Albatross* 5637.
- microspina*, *Freyella* Verrill, 1894:286–288.  
 Holotype: USNM 7821 (1 dry), *Albatross* 2220. Only a few arm fragments remain.
- microspina*, *Henricia* Verrill, 1915:48–49.  
 Holotype: USNM 18390 (1 dry), *Albatross* 2655.  
 = *Henricia antillarum* (Perrier, 1881). See Downey (1973:84–85).
- millespina*, *Hyalinothrix* Fisher, 1911b:661–663, pl. 69–71.  
 Holotype: USNM 27674 (1 alcohol), *Albatross* 3863.  
 Paratype: USNM E9677 (1 alcohol), *Albatross* 3863.
- mimica*, *Brisinga* Fisher, 1916b:32. (Fisher, 1919a:518–520, pl. 147: figs. 3–5; pl. 149: fig. 4; pl. 152: figs. 4, 4a–d.)  
 Holotype: USNM 37021 (1 alcohol), *Albatross* 5648.  
 = *Brisingenens mimica* (Fisher, 1916). See Fisher (1917d:419, 427).
- mimicus*, *Rosaster* Fisher, 1913a:632. (Fisher, 1919a:250–253, pl. 62: fig. 1; pl. 65: fig. 1; pl. 70: fig. 1; pl. 91: figs. 4, 4a,b.)  
 Holotype: USNM 30540 (1 alcohol), *Albatross* 5281.
- mirabilis*, *Tremaster* Verrill, 1879a:201–202.  
 Syntypes: USNM 4949 (1 alcohol), Gloucester Fisheries, sta. 327. Specimen in poor condition, deteriorated.  
 USNM 5707 (1 alcohol), Schooner *Herbert M. Rogers*, sta. 477, Nova Scotia, Banquereau; 250 fm (457 m); Gloucester Fisheries; 1879. The locality data pertains to the specimen label, which is inconsistent with publication. Specimen in poor condition, deteriorated.  
 USNM 31082 (1 alcohol), Schooner *Epes Tarr*, sta. 382, Gloucester Fisheries.
- mirus*, *Alexandra* Ludwig, 1905:210–214, pl. 15: figs. 79, 80; pl. 31: figs. 181–183; pl. 32: fig. 184.  
 Syntypes: USNM 34333 (1 alcohol), *Albatross* 3384.  
 USNM 34336 (1 dry), *Albatross* 3403. Specimen in poor condition, deteriorated, reduced to ossicles.  
 = *Poraniopsis inflata flexilis* Fisher, 1910. See Fisher (1911a:260–261, 266).
- Remarks: The genus, *Alexandra* has been synonymized with *Poraniopsis* Perrier, 1891b (see Fisher, 1910d:568). The name *Poraniopsis mira* (de Loriol, 1904) is the senior homonym of *P. mira* (Ludwig, 1905). Fisher discussed this problem (1911a:260–261, 266) but chose not to introduce a replacement name for *P. mira* (Ludwig, 1905) suggesting that the species is “doubtfully distinct from my *flexilis*.” In subsequent publications (1939:469) and (1940:159), Fisher maintained this affinity and continued to include the distribution of *P. mira* (Ludwig, 1905) in his range of distributions for his subspecies *flexilis*, although he never formally synonymized the species. The synonymy stated herein is inferred from Fisher’s publications as referenced above.
- mixtus*, *Pectinaster* Verrill, 1915:140–145, pl. 6: fig. 2; pl. 15: fig. 2; pl. 17: fig. 1.  
 Holotype: USNM 10226 (1 dry), *Albatross* 2341.  
 Paratype: USNM 18470 (1 dry), *Albatross* (station not recorded).  
 = *Cheiraster (Barbadosaster) echinulatus* (Perrier, 1875). See A.M. Clark (1981:112).
- moluccana*, *Brisinga* Fisher, 1916b:32–33. (Fisher, 1919a:526–528, pl. 147: figs. 1, 2; pl. 149: fig. 3; pl. 154: figs. 2, 2a–c; pl. 156: figs. 2, 2a.)  
 Holotype: USNM 37022 (1 alcohol), *Albatross* 5626.  
 = *Astrostephane moluccana* (Fisher, 1916). See Fisher (1917d:421–422).
- moluccanus*, *Benthopecten* Fisher, 1913c:207–208. (Fisher, 1919a:208–211, pl. 53: fig. 1; pl. 55: figs. 5, 5a,b.)  
 Holotype: USNM 32629 (1 alcohol), *Albatross* 5618.
- moluccanus*, *Nymphaster* Fisher, 1913a:637–638. (Fisher, 1919a:274–277, pl. 64: fig. 3; pl. 65: fig. 2; pl. 68: fig. 7; pl. 92: figs. 3, 3a,b.)  
 Holotype: USNM 30546 (1 alcohol), *Albatross* 5622.
- monacantha*, *Brisingella* H.L. Clark, 1920:107–108, pl. 5: figs. 3, 4.  
 Holotype: USNM E934 (1 ray, alcohol), *Albatross* 4651.  
 This species was described from two rays only.
- monacanthus*, *Styracaster* Ludwig, 1907:315.  
 Holotype: USNM E9784 (1 dry), *Albatross* 4701. Specimen in fair condition, portion of disc and arms intact.
- monostoechus*, *Persephonaster* Fisher, 1913a:620–621. (Fisher, 1919a:134–136, pl. 20: fig. 2; pl. 21: fig. 2; pl. 31: fig. 5; pl. 37: figs. 3a–c.)  
 Holotype: USNM 30528 (1 alcohol), *Albatross* 5606.  
 Specimen in poor condition, deteriorated, reduced to ossicles.
- mordax*, *Psalidaster* Fisher, 1940:229–231, figs. K, 2–2g,



- 3-3b; pl. 18: figs. 1, 2.  
 Paratype: USNM E10078 (1 alcohol), *William Scoresby* 821.  
 Two rays only.
- mordax*, subsp., *Zoroaster evermanni* Fisher, 1919b:391.  
 (Fisher, 1928a:43-44, pl. 19: fig. 2.)  
 Holotype: USNM 37040 (1 alcohol), *Albatross* 3073.
- morrisoni*, *Heliaster* A.H. Clark, 1946:9-11, pl. 3; lower.  
 Holotype: USNM E6767 (1 dry), Panama, Perlas Archipelago, San Jose, South Bay, near camp; from rocks; A. Wetmore and J.P.E. Morrison; 27 February 1944.
- moseri*, *Hyphalaster* Ludwig, 1905:100-103, pl. 7: figs. 36, 37.  
 Syntypes: USNM 34447 (1 alcohol), *Albatross* 3684.  
 USNM 34452 (1 alcohol), *Albatross* 3684.
- mucronatus*, *Nymphaster* Fisher, 1913a:636-637. (Fisher, 1919a:269-272, pl. 63: figs. 1, 2; pl. 68: fig. 5; pl. 69: fig. 6; pl. 92: figs. 1, 1a.)  
 Holotype: USNM 30544 (1 alcohol), *Albatross* 5116.
- multicinctus*, *Persephonaster* Fisher, 1913a:616. (Fisher, 1919a:123-125, pl. 25: fig. 1; pl. 26: fig. 1; pl. 27: fig. 1; pl. 37: figs. 2, 2a-c.)  
 Holotype: USNM 30524 (1 alcohol), *Albatross* 5648.
- multicostata*, *Brisinga* Verrill, 1894:280-283.  
 Holotype: USNM 12074 (1 dry), *Albatross* 2573. There are 6 arm fragments in alcohol (USNM 12075) that may be part of the type specimen. Both lots have identical but incorrect preprinted USFC *Grampus* labels.  
 Paratypes: USNM E43001 (1 alcohol), *Albatross* 2573.  
 USNM 14858 (1 alcohol), *Albatross* 2685.  
 = *Brisingenens multicostata* (Verrill, 1894). See Downey (1986:17).
- multispina*, subsp., *Henricia leviuscula* Fisher, 1910d:571-572. (Fisher, 1911a:286-289, pl. 72: fig. 1; pl. 73: figs. 1, 2.)  
 Holotype: USNM 27779 (1 dry), *Albatross* 4779.
- multispina*, subsp., *Leptasterias alaskensis* Fisher, 1930:133-135, pl. 48: fig. 4; pl. 57: figs. 6, 7.  
 Holotype: USNM E1503 (1 dry), Alaska, Alexander Archipelago, Wrangell; W.H. Jones; 1882.  
 Paratypes: USNM E39297 (9 dry), Alaska, Alexander Archipelago, Wrangell; W.H. Jones; 1882.  
 USNM 15829 (4 dry), Southern Alaska; W.H. Jones; 1882.  
 USNM E16068 (1 alcohol), Southern Alaska; W.H. Jones; 1882.  
 USNM 15836 (1 dry), Alaska, Alexander Archipelago, Prince of Wales Island, Kasan Bay; T.H. Streets.  
 USNM E39298 (2 dry), British Columbia, Vancouver Island, Queen Charlotte Strait, Alert Bay; W.H. Jones; February 1882.
- Remarks: The plate caption of the holotype is incorrect. It is figure 6 of plate 57 and figure 7 is a paratype from southern Alaska, the one photographed specimen of the 4 specimens (USNM 15829). The number of paratypes from southern Alaska and Wrangell is incorrect. USNM has 5 specimens and 9 specimens respectively; Fisher recorded 6 and 8.
- mutabilis*, *Benthopecten* Fisher, 1910c:548-549. (Fisher, 1911a:147-150, pl. 22: fig. 1; pl. 23: fig. 3; pl. 54: figs. 6, 6a.)  
 Holotype: USNM 27803 (1 alcohol), *Albatross* 2859.
- myobrachus*, *Pseudarchaster* Fisher, 1906b:1037-1038, pl. 10: figs. 6, 6a; pl. 19: figs. 1, 1a-c.  
 Holotype: USNM 21158 (1 alcohol), *Albatross* 3995.  
 Paratype: USNM 31306 (1 alcohol), *Albatross* 4028.
- myonotus*, subsp., *Pteraster obesus* Fisher, 1916b:28. (Fisher, 1919a:458-460, pl. 127: fig. 1; pl. 128: fig. 3; pl. 133: fig. 4.)  
 Holotype: USNM 37015 (1 alcohol), *Albatross* 5518.
- nana*, *Cribella* Ludwig, 1905:207-210, pl. 13: figs. 65, 66; pl. 31: fig. 180.  
 Syntypes: USNM 34372 (7 alcohol), *Albatross* 3405.  
 = *Henricia nana* (Ludwig, 1905). See Fisher (1911a:270).
- nannodes*, subsp., *Anteliaster microgenys* Fisher, 1928a:74-75, pl. 29: figs. 3, 3a-d; pl. 35: fig. 4.  
 Holotype: USNM E1423 (1 dry), *Albatross* 4770. Specimen reduced to particles, poor condition.  
 Paratype: USNM E16070 (1 alcohol), *Albatross* 4770.
- nannus*, *Rosaster* Fisher, 1913a:631-632. (Fisher, 1919a:244-247, pl. 61: figs. 1, 2; pl. 68: fig. 6; pl. 91: figs. 3, 3a.)  
 Holotype: USNM 30539 (1 alcohol), *Albatross* 5152.
- nesiotes*, *Dipsacaster* Fisher, 1906b:1026-1029, pl. 9: figs. 3, 3a; pl. 10: figs. 2, 2a,b; pl. 12: figs. 1, 2.  
 Holotype: USNM 21151 (1 alcohol), *Albatross* 3916, Hawaii, south coast of Oahu Island, Diamond Head Light; 299-330 fm (547-603 m); 6 May 1902.  
 Paratypes: USNM 31598 (2 alcohol), *Albatross* 3866.  
 USNM 31599 (3 alcohol), *Albatross* 3867.  
 USNM 31600 (1 alcohol), *Albatross* 3884.  
 USNM 31601 (1 alcohol), *Albatross* 3910, Hawaii, south coast of Oahu Island, Diamond Head Light; 311-337 fm (569-616 m); 5 May 1902.  
 USNM E4450 (1 alcohol), *Albatross* 3866.
- nitida*, *Tosia* (*Plinthaster*) Verrill, 1899:165-166, pl. 27: figs. 1, 1a,b.  
 Holotype: USNM 18449 (1 dry), *Albatross* 2396.  
 = *Plinthaster dentatus* (Perrier, 1884). See Halpern (1970a:244-252).
- nitidus*, *Astropecten* Verrill, 1915:179-180, pl. 20: fig. 2.  
 Holotype: USNM 18344 (1 dry), *Albatross* 2762.  
 Paratypes: USNM 10548 (5 alcohol), *Albatross* 2418.  
 USNM 18345 (1 dry), *Albatross* 2318.
- nortonensis*, var., *Allasterias rathbuni* Verrill, 1909a:66, fig. 7.  
 Syntype: USNM 7621 (1 dry), Alaska, head of Norton Sound; 9 m; J. Murdoch; 12 September 1883.  
 = *Asterias amurensis* Lütken, 1871. See Fisher (1930:6-23).
- notabilis*, *Mimaster* Fisher, 1913a:624-625. (Fisher, 1919a:217-220, pl. 41: figs. 6, 6a; pl. 57: fig. 2; pl. 58: fig. 1.)  
 Holotype: USNM 30533 (1 alcohol), *Albatross* 5630.



- = *Radiaster notabilis* (Fisher, 1913). See Fisher (1916a:4–5).  
*notophrynus*, *Solaster* Downey, 1971a:39–41, fig. 1A,B.  
 Holotype: USNM E11383 (1 dry), *Oregon* 5929.
- nudus*, *Albatrossaster* Ludwig, 1907:318–319.  
 Holotype: USNM E9786 (1 dry), *Albatross* 4647.  
 = *Porcellanaster ceruleus* C.W. Thomson, 1877. See Madsen (1961:126–142).
- nudus*, *Zoroaster* Ludwig, 1905:164–172, pl. 14: figs. 69, 70; pl. 27: figs. 154–156; pl. 28: figs. 157–160.  
 Syntypes: USNM 34381 (2 alcohol), *Albatross* 3431. One specimen in poor condition, disc torn, rays fragmented.  
 USNM 34387 (1 alcohol), *Albatross* 3432.  
 = *Cnemidaster nudus* (Ludwig, 1905). See H.L. Clark (1920:97–98).
- nutrix*, *Odinella* Fisher, 1940:207–214, figs. G, 1–6, figs. H, 1–9, pls. 14, 15; pl. 16: figs. 1–11; pl. 17: figs. 1–3.  
 Holotype: USNM E9613 (1 alcohol), *Discovery* 39, South Georgia, east side of Cumberland Bay; 179–235 m; 25 March 1926. Part of one ray only.  
 Paratype: USNM E10077 (1 alcohol), *Discovery* 42, South Georgia, off mouth of Cumberland Bay; 120–204 m; 1 April 1926.
- nuttingi*, *Astropecten* Verrill, 1915:181–184, pl. 12: figs. 2–2e; pl. 21: figs. 1, 2.  
 Paratype: USNM 18350 (1 dry), *Albatross* 2418.  
 = *Astropecten alligator* Perrier, 1881. See Clark and Downey (1992:28).
- nuttingi*, *Patagiaster* Fisher, 1906b:1029–1031, pl. 9: figs. 2, 2a; pl. 12: fig. 3; pl. 17: fig. 1.  
 Holotype: USNM 21152 (1 alcohol), *Albatross* 4081. The holotype bottled with USNM 31412 and USNM 31413. All specimens are in poor condition and are reduced to ossicles and a few fragments.  
 Paratypes: USNM 30796 (44 alcohol), *Albatross* 4083.  
 USNM 30797 (19 dry), *Albatross* 4116.  
 USNM 31371 (200+ alcohol), *Albatross* 4082.  
 USNM 31412 (5 alcohol), *Albatross* 4081. (See holotype remark.)  
 USNM 31413 (2 alcohol), *Albatross* 3836. (See holotype remark.)  
 USNM 31421 (47 alcohol), *Albatross* 4082.  
 USNM 31588 (44 alcohol), *Albatross* 4081.  
 USNM 31591 (1 dry), *Albatross* 3919, Hawaii, south coast of Oahu Island, Diamond Head Light; 220–257 fm (402–470 m); 6 May 1902. Specimen is reduced to ossicles and is boxed with nontype specimens of same species, also in poor condition (USNM 31589, 31590, 31592).  
 USNM E4453 (5 dry), *Albatross* 4081.  
 USNM 32221 (7 alcohol), *Albatross* 3472. Specimens deteriorated to ossicles only.  
 USNM E42497 (2 alcohol), *Albatross* 3836.  
 USNM E42498 (1 alcohol), *Albatross* 4044.  
 USNM E42499 (2 alcohol), *Albatross* 3472.
- USNM E42500 (1 alcohol), *Albatross* 4115.
- ochotense*, *Asteracanthion* Brandt, 1851:28–30.  
 Syntypes: USNM 10158 (1 alcohol), Russia, Okhotsk Sea; Alexander Th. von Middendorff collection, no. 1354. Donated to the USNM through W.K. Fisher by the Academy of Sciences, Leningrad through A. Djakonov.  
 USNM E10159 (2 alcohol), Russia, Okhotsk Sea; Alexander Th. von Middendorff collection, no. 1327. Donated to the USNM through W.K. Fisher by the Academy of Sciences, Leningrad through A. Djakonov.  
 = *Leptasterias ochotensis* (Brandt, 1851). See Fisher (1928a:1, 1930:57–59).
- octoradiata*, *Anasterias* Koehler, 1914:64–68, pl. 14: figs. 1–7.  
 Holotype: USNM 38199 (1 alcohol), South Georgia, Bay of Isles; 4 fm (7 m); Robert C. Murphy.  
 = *Diplasterias octoradiata* (Studer, 1885). *Anasterias octoradiata* Koehler is the junior secondary homonym of *Pedicellaster octoradiatus* Studer. See Fisher (1940:254–257).
- octoradiata*, *Freyellidea* H.L. Clark, 1920:110–111, pl. 6: figs. 1, 2.  
 Holotype: USNM E942 (1 alcohol), *Albatross* 4742. Specimen fragmented.  
 = *Freyella octoradiata* (H.L. Clark, 1920). See Fisher (1928a:24).
- oediplax*, *Persephonaster* Fisher, 1913a:617–618. (Fisher, 1919a:127–131, pl. 22: fig. 3; pl. 23: fig. 4; pl. 31: fig. 3; pl. 38: figs. 2, 2a–d.)  
 Holotype: USNM 30526 (1 alcohol), *Albatross* 5123.
- oligobrachia*, *Freyellidea* H.L. Clark, 1920:112–113, pl. 6: figs. 3, 4.  
 Holotype: USNM E9836 (1 dry), *Albatross* 4742. Specimen fragmented.  
 Paratype: USNM E9834 (1 alcohol), *Albatross* 4742. Juvenile specimen in fair condition, fragmented.  
 = *Freyella oligobrachia* (H.L. Clark, 1920). See Fisher (1928a:24).
- oligoporus*, *Pseudarchaster* Fisher, 1913a:625–626. (Fisher, 1919a:222–225, pl. 59: fig. 1; pl. 60: fig. 3; pl. 91: figs. 2, 2a.)  
 Holotype: USNM 30534 (1 alcohol), *Albatross* 5609.
- ophiactis*, *Zoroaster* Fisher, 1916b:29–30. (Fisher, 1919a:473–475, pl. 135: figs. 2, 2a,b; pl. 136: fig. 1; pl. 139: fig. 3.)  
 Holotype: USNM 37008 (1 alcohol), *Albatross* 5606.
- ophiurus*, *Zoroaster* Fisher, 1905:315–316. (Fisher, 1928a:34–37, pl. 13: figs. 1, 1b; pl. 17: fig. 3.)  
 Holotype: USNM 22345 (1 alcohol), *Albatross* 4387.
- ordinatus*, *Pseudarchaster* Verrill, 1899:194–195, pl. 30: figs. 4, 4a,b.  
 Holotype: USNM 18438 (1 dry), *Albatross* 2396.  
 Paratypes: USNM 10345 (2 dry), *Albatross* 2376.  
 = *Pseudarchaster gracilis gracilis* (Sladen, 1889). See

- Halpern (1972:360–366).
- orientalis*, *Ctenodiscus* Fisher, 1913a:601. (Fisher, 1919a:44–46, pl. 2: figs. 2–4.)  
 Holotype: USNM 30505 (1 alcohol), *Albatross* 5528.  
 Specimen deteriorated, disc and arm fragments in fragile condition.
- orientalis*, *Luidia* Fisher, 1913c:203. (Fisher, 1919a:166–168, pl. 43: figs. 2–4; pl. 44: fig. 1; pl. 46: fig. 3.)  
 Holotype: USNM 32623 (1 alcohol), *Albatross* 5301.
- orientalis*, subsp., *Pedicellaster magister* Fisher, 1928a:66–67, pl. 16: fig. 5; pl. 27: figs. 1, 1a–c, 5; pl. 28: fig. 3; pl. 34: fig. 5.  
 Holotype: USNM E1420 (1 alcohol), *Albatross* 4867.  
 Paratypes: USNM E41021 (4 alcohol), *Albatross* 4867.
- ornatissimus*, *Astropecten* Fisher, 1906a:119–121. (Fisher, 1911a:67–71, pl. 51: figs. 1, 1a–c.)  
 Holotype: USNM 21927 (1 alcohol), *Albatross* 4413, California, Santa Catalina Island, Bird Rock; 152–162 fm (278–296 m); 11 April 1904.
- ornatus*, *Mediaster* Fisher, 1906b:1046–1048, pl. 16: figs. 3, 3a,b; pl. 20: figs. 1, 2.  
 Holotype: USNM 21160 (1 alcohol), *Albatross* 4022.  
 Paratypes: USNM 30899 (24 alcohol), *Albatross* 3474.  
 USNM 30900 (3 alcohol), *Albatross* 3475.  
 USNM 31392 (3 alcohol), *Albatross* 4021.  
 USNM 31393 (1 dry), *Albatross* 4123.  
 USNM E9657 (1 alcohol), *Albatross* 4028.  
 USNM E9658 (1 alcohol), *Albatross* 4141.
- orthodon*, *Asterina* Fisher, 1922b:415–418, pl. 10: figs. 1, 2.  
 Holotype: USNM E1058 (1 dry), Hong Kong, seaward side of island; low tide; Arthur S. Campbell; 1922.
- pacifica*, *Freyella* Ludwig, 1905:267–272.  
 Holotype: USNM 34379 (1 alcohol), *Albatross* 3690, Tuamotu Archipelago, Hao Atoll, NW face; 812 fm (1485 m); 29 October 1899.
- pacifica*, *Odinia* Fisher, 1906b:1108–1109, pl. 43: fig. 1; pl. 47: figs. 1, 1a–d.  
 Holotype USNM 21190 (1 alcohol), *Albatross* 3828.  
 = *Novodinia pacifica* (Fisher, 1906). See Dartnall et al. (1969:211).
- pacificus*, subsp., *Dactylosaster cylindricus* Fisher, 1925:75, pl. 8b.  
 Paratype: USNM E8853 (1 dry), Hawaii, Kure Island (Ocean Island); Tanager Expedition.
- pacificus*, *Leptychaster* Fisher, 1906a:112–114. (Fisher, 1911a:45–48.)  
 Holotype: USNM 21925 (1 alcohol), *Albatross* 2862. Fisher attached a handwritten label to the specimen stating *Albatross* 2892. The original description and Fisher's second reference (1911a) record *Albatross* 2862. Probably Fisher simply wrote the wrong station number on the specimen label.
- pacificus*, *Porcellanaster* Ludwig, 1905:89–92, pl. 6: figs. 28, 29.  
 Syntypes: USNM 34401 (2 alcohol), *Albatross* 3360.  
 USNM 34402 (2 alcohol), *Albatross* 3362.  
 USNM 34399 (1 alcohol), *Albatross* 3376.  
 USNM 34400 (6 alcohol), *Albatross* 3392.  
 USNM 34398 (2 alcohol), *Albatross* 3400.  
 USNM 34403 (1 alcohol), *Albatross* 3411.  
 USNM 34404 (1 alcohol), *Albatross* 3415. Ludwig reported 2 specimens from this station.  
 = *Eremicaster pacificus* (Ludwig, 1905). See Fisher (1907:12–14).
- pacificus*, *Pythonaster* Downey, 1979a:70–73, figs. 1–3.  
 Holotype: USNM E17965 (1 dry), *Melville*, Mexico, off Baja California on the abyssal plain, 31°19'42"N 119°39'12"W; 1968–2010 fm (3599–3676 m); Scripps Institute of Oceanography; 18 December 1969.
- palawanensis*, subsp., *Pectinaster mimicus* Fisher, 1919a:185–187, pl. 52: fig. 3; pl. 54: figs. 2, 2a.  
 Holotype: USNM 37003 (1 alcohol), *Albatross* 5349.  
 Specimen in poor condition, deteriorated, reduced to ossicles and a few arm fragments.  
 Paratypes: USNM 40370 (2 dry), *Albatross* 5349. Specimens in poor condition deteriorated, reduced to ossicles.  
 USNM 40838 (1 alcohol), *Albatross* 5349.
- panamensis*, *Brisinga* Ludwig, 1905:258–267, pl. 28: figs. 163–167; pl. 32: figs. 185–187.  
 Syntypes: USNM 34324 (1 alcohol), *Albatross* 3362.  
 Specimen in poor condition, deteriorated, disc torn, reduced to ossicles and fragments. Ludwig reported 2 specimens from this station.  
 USNM 34369 (2 alcohol), *Albatross* 3376.  
 USNM 34320 (12 alcohol), *Albatross* 3392. All remaining specimens are fragmented.  
 USNM 34322 (1 alcohol), *Albatross* 3392. Specimen in poor condition, rays fragmented.  
 USNM 34323 (1 dry), *Albatross* 3411.  
 USNM 34321 (6 alcohol), *Albatross* 3400 and 3431.  
 Ludwig reported 7 specimens from sta. 3400 and one from sta. 3431. One specimen from 3400 was given to the MCZ, 1914. One specimen is missing.  
 = *Astrolirus panamensis* (Ludwig, 1905). See Fisher (1917d:424, 428).
- pannychia*, *Brisingella* Fisher, 1928a:18–19, pl. 8: figs. 4, 4a.  
 Holotype: USNM 37038 (1 alcohol), *Albatross* 4767.
- panopla*, *Brisinga* Fisher, 1906b:1109–1111, pl. 43: fig. 3; pl. 44; pl. 45: fig. 3; pl. 47: figs. 2, 2a–f.  
 Holotype: USNM 21191 (1 alcohol), *Albatross* 4177, Hawaii, vicinity of Niihau Island, Kawahioa Point; 319–451 fm (533–825 m); 12 August 1902.  
 Paratypes: USNM 31404 (1 alcohol), *Albatross* 3992. Arm fragments only.  
 USNM E4524 (1 dry), *Albatross* 3992. Dissociated rays.
- papyraceus*, *Asthenactis* Fisher, 1906b:1097–1098, pl. 40: figs. 3, 3a.  
 Holotype: USNM 21183 (1 alcohol), *Albatross* 4157,

- Hawaii, center of Bird Island (Nihoa Island); 762–1000 fm (1394–1829 m); 6 August 1902.
- parvispinus*, *Echinaster* A.H. Clark, 1916c:60–61.  
Holotype: USNM 36893 (1 alcohol), *Albatross* 3021.
- paschae*, *Stylasterias* H.L. Clark, 1920:105–106, pl. 4: fig. 3.  
Holotype: USNM E703 (1 dry), *Albatross* shore station, Easter Island; 21 December 1904.
- passiflora*, *Tamaria* Downey, 1971b:48–49, fig. 3A,B.  
Holotype: USNM E11382 (1 dry), *Oregon II* 10858.
- patagiatus*, subsp., *Diplopteraster multipes* Fisher, 1916b:28–29. (Fisher, 1919a:462–463, pl. 130: fig. 2.)  
Holotype: USNM 37016 (1 alcohol), *Albatross* 5656.
- paucispina*, *Asterias* Stimpson, 1862:266.  
Holotype: USNM 1286 (1 dry), Washington, Puget Sound; Northwest Boundary Commission; Dr. C.B. Kennerly.  
Paratypes: USNM 1287 (1 dry), Washington, Puget Sound; Northwest Boundary Commission; Dr. C.B. Kennerly.  
USNM 1288 (3 alcohol and 1 dry), Washington, Puget Sound; Northwest Boundary Commission; Dr. C.B. Kennerly.  
= *Pisaster brevispinus* forma *paucispinus* (Stimpson, 1862).  
See Fisher (1926a:565–566).
- paucispinus*, *Echinaster* A.M. Clark, 1987:73–75, figs. 1b, 2C, 3A,B.  
Holotype: USNM E34074 (1 dry), *Hourglass* sta. D, FDNR field no. EJ-67-69; Florida Department of Natural Resources.
- paucispinus*, *Marginaster* Fisher, 1913c:216. (Fisher, 1919a:407–409, pl. 131: figs. 2, 2a.)  
Holotype: USNM 32641 (1 alcohol), *Albatross* 5310.
- paucispinus*, *Styracaster* Ludwig, 1907:315–316.  
Syntype: USNM E9837 (1 dry), *Albatross* 4658.
- pauperrima*, *Henricia* Fisher, 1906b:1091–1092, pl. 35: figs. 3, 4; pl. 38: figs. 3, 3a,b.  
Holotype: USNM 21182 (1 alcohol), *Albatross* 4166, Hawaii, center of Bird Island (Nihoa Island); 293–800 fm (536–1463 m); 8 August 1902.
- pectinatus*, *Astropecten* Sladen, 1883:251–253.  
Syntype: USNM E13710 (1 alcohol), *Challenger*, exact station unclear. All of the three localities listed in the original description appear on the specimen label: Victoria, Australia, either Port Jackson or Port Phillip or Bass Strait. Received in exchange from the British Museum (ex BMNH 90.5.7 220–224).
- pectinatus*, *Bathybiaster* Fisher, 1905:295–296. (Fisher, 1911a:72–78, pl. 7: fig. 7; pl. 10: figs. 1–3.)  
Holotype: USNM 22327 (1 alcohol), *Albatross* 4387.  
= *Psilaster pectinatus* (Fisher, 1905). See Fisher (1911a:72–78).
- pectinifer*, *Pararchaster* Ludwig, 1905:10–16, pl. 1: fig. 1; pl. 16: figs. 85–87; pl. 17: figs. 88, 89, 91–93.  
Syntypes: USNM 34437 (2 alcohol), *Albatross* 3407.  
Specimens in fair condition, quite fragmented.  
= *Benthopecten pectinifer* (Ludwig, 1905). See Ludwig (1910:464–466).
- pectinifer*, *Pseudarchaster* Ludwig, 1905:106–110, pl. 7: figs. 34, 35.  
Holotype: USNM 34417 (1 dry), *Albatross* 3393. Specimen in poor condition, deteriorated, two small arm fragments only, some ossicles.
- pedicellaris*, subsp., *Acantharchaster variabilis* Fisher, 1910c:550–551. (Fisher, 1911a:138–140, pl. 23: fig. 4; pl. 25: fig. 1; pl. 27: fig. 3; pl. 118: fig. 2.)  
Holotype: USNM 27801 (1 alcohol), *Albatross* 3337.  
= *Nearchaster pedicellaris* (Fisher, 1910). See Fisher (1911a:138–140).
- pedicellaris*, *Astropecten* Fisher, 1913a:607. (Fisher, 1919a: 87–89, pl. 12: fig. 1; pl. 13: fig. 4; pl. 15: figs. 2, 2a–c.)  
Holotype: USNM 30514 (1 alcohol), *Albatross* 5424.
- pedicellaris*, *Calliaster* Fisher, 1906b:1061–1062, pl. 27: fig. 1; pl. 28: figs. 1, 2; pl. 31: fig. 1.  
Holotype: USNM 21167 (1 alcohol), *Albatross* 4100.
- pedicellaris*, *Nepanthia* Fisher, 1913c:217–218. (Fisher, 1919a:417–419, pl. 114: figs. 2, 3; pl. 121: fig. 1; pl. 132: figs. 2, 2a.)  
Holotype: USNM 32643 (1 alcohol), *Albatross* 5482.  
= *Asterinopsis pedicellaris* (Fisher, 1913). See Fisher (1919a:417–419).
- penichra*, *Lithosoma* Fisher, 1917b:90. (Fisher, 1919a:301–303, pl. 76: fig. 2; pl. 77: fig. 1; pl. 84: fig. 6; pl. 85: fig. 1; pl. 93: figs. 6, 6a,b.)  
Holotype: USNM 37004 (1 alcohol), *Albatross* 5528.
- penichra*, *Odinia* Fisher, 1916b:31. (Fisher, 1919a:505–507, pl. 142: fig. 1; pl. 151: figs. 3, 3a–c.)  
Holotype: USNM 37019 (1 alcohol), *Albatross* 5217.  
= *Novodinia penichra* (Fisher, 1916). See Dartnall et al. (1969:211).
- penicillatus*, *Persephonaster* Fisher, 1905:297–298. (Fisher, 1911a:79–85, pl. 18: figs. 1–3, 5; pl. 53: figs. 1, 1a,b,d,e.)  
Holotype: USNM 22329 (1 alcohol), *Albatross* 4380, California, vicinity of San Diego, south point North Coronado Island; 530–618 fm (969–1130 m); 18 March 1904.  
= *Thrissacanthias penicillatus* (Fisher, 1905). See Fisher (1911a:79–85).
- pentagonalis*, *Hymenaster* Fisher, 1906b:1099–1100, pl. 38: figs. 6, 6a,b; pl. 40: fig. 2; pl. 41: fig. 1.  
Holotype: USNM 21185 (1 alcohol), *Albatross* 4090.  
Specimen in poor fragile condition.  
Paratypes: USNM E4451 (1 alcohol), *Albatross* 3911, Hawaii, south coast of Oahu Island, Diamond Head Light; 334–337 fm (611–616 m); 5 May 1902. Specimen in poor condition, deteriorated, reduced to ossicles only.  
USNM 31908 (3 alcohol), *Albatross* 3914, Hawaii, south coast of Oahu Island, Diamond Head Light; 289–292 fm (529–534 m); 6 May 1902. Specimens in poor condition, deteriorated.  
USNM 31909 (1 alcohol), *Albatross* 4090. Specimen in



- poor condition, deteriorated.  
USNM E9679 (1 alcohol), *Albatross* 3911, Hawaii, south coast of Oahu Island, Diamond Head Light; 334–337 fm (611–616 m); 5 May 1902.
- perarmatus*, *Zoroaster* H.L. Clark, 1920:102–104, pl. 4: fig. 2.  
Holotype: USNM E4905 (1 dry), *Albatross* 4653.
- perierctus*, *Iconaster* Fisher, 1913a:642–643. (Fisher, 1919a:306–309, pl. 79: fig. 4; pl. 81: fig. 3; pl. 83: figs. 2, 3; pl. 93: figs. 1, 1a.)  
Holotype: USNM 30554 (1 alcohol), *Albatross* 5166.
- perissonotus*, *Hymenaster* Fisher, 1910a:170. (Fisher, 1911a:376–380.)  
Holotype: USNM 27796 (1 alcohol), *Albatross* 2919.  
Specimen in poor condition, deteriorated, reduced to ossicles.
- perplexus*, *Ophidiaster* A.H. Clark, 1954:256–257.  
Holotype: USNM E7999 (1 dry), Tuamotu Archipelago, pool and pavement zone at the south end of Ngarumaoa Island; J.P.E. Morrison; 3 September 1952.  
= *Linckia perplexus* (A.H. Clark, 1954).
- philippinensis*, subsp., *Zoroaster carinatus* Fisher 1916b:30. (Fisher, 1919a:477–480, pl. 116: fig. 3; pl. 135: figs. 3, 3a; pl. 137.)  
Holotype: USNM 37010 (1 alcohol), *Albatross* 5587.
- phragmorus*, subsp., *Astropecten acanthifer* Fisher, 1913a:604. (Fisher, 1919a:65–67, pl. 11: fig. 5; pl. 14: fig. 1.)  
Holotype: USNM 30510 (1 alcohol), *Albatross* 5157.  
= *Astropecten polyacanthus phragmorus* (Fisher, 1913). See A.M. Clark (1974:433–434).
- placoderma*, *Brisinga (Stegnobrisinga)* Fisher, 1916b:34. (Fisher, 1919a:531–533, pl. 150; pl. 153: figs. 2, 2a–d.)  
Holotype: USNM 37025 (1 alcohol), *Albatross* 5648.  
Fragments of rays from the two incomplete nontype specimens (USNM 40900) may be mixed with the holotype.  
= *Stegnobrisinga placoderma* (Fisher, 1916). See Fisher (1919a:531–533).
- planus*, *Cheiraster* Verrill, 1915:133–135, pl. 18: fig. 2.  
Holotype: USNM 18469 (1 dry), *Albatross* station not recorded. Clark and Downey (1992:128–129) recorded the locality as possibly *Albatross* 2396, in the Gulf of Mexico, between Mississippi delta and Cedar Key, Florida.
- planus*, *Pentagonaster* Verrill, 1895:135–136. (Verrill, 1899:170–171, pl. 28: figs. 3, 3a.)  
Holotype: USNM 13362 (1 dry), *Fish Hawk* 1098.  
= *Peltaster placenta* (Müller and Troschel, 1842). See Verrill (1899:170–171).
- platyacanthus*, *Hymenaster* Ludwig, 1905:191, pl. 35: fig. 213.  
Syntypes: USNM 34376 (1 alcohol), *Albatross* 3413.  
Specimen in fair condition, fragile fragments.  
USNM 34377 (1 alcohol), *Albatross* 3398. Specimen in poor condition, deteriorated, reduced to ossicles and fragile fragments.  
USNM 34378 (1 alcohol), *Albatross* 3361. Specimen in fair condition, some deterioration, very fragmented.
- platyacanthus*, *Zoroaster* H.L. Clark, 1913:199–201, pl. 44: figs. 1, 2.  
Holotype: USNM 31640 (1 dry), *Albatross* 5675.  
= *Myxoderma platyacanthum* (H.L. Clark, 1913). See Fisher (1919b:392).
- platydisca*, *Nepanthia* Fisher, 1913c:218–219. (Fisher, 1919a:420–422, pl. 114: figs. 1, 4; pl. 116: figs. 4, 5; pl. 132: figs. 1, 1a,b.)  
Holotype: USNM 32644 (1 alcohol), *Albatross* 5645.  
= *Paranepanthia platydisca* (Fisher, 1913). See Fisher (1917e:172–173).
- polyacantha*, *Henricia* Fisher, 1906a:129–130. (Fisher, 1911a:302–303, pl. 78: figs. 1, 4.)  
Holotype: USNM 21931 (1 alcohol), *Albatross* 2936.
- polyctenius*, *Benthopecten* Fisher, 1913c:208. (Fisher, 1919a:211–213, pl. 51: figs. 2, 3; pl. 52: fig. 2; pl. 55: fig. 4.)  
Holotype: USNM 32630 (1 alcohol), *Albatross* 5654.
- polyctenius*, *Rhipidaster (Xenorias)* Fisher, 1913c:222–223. (Fisher, 1919a:451–453, pl. 120: fig. 1; pl. 123: fig. 1; pl. 133: figs. 1, 1a,b.)  
Holotype: USNM 32649 (1 alcohol), *Albatross* 5622.  
= *Xenorias polyctenius* (Fisher, 1913). See Fisher (1919a:451–453).
- polythela*, *Asterias* Verrill, 1909a:68.  
Syntype: USNM 15820 (1 dry), U.S.R.S. *Corwin*, Alaska, off the Arctic coast; Captain M.A. Healy; 1885. Verrill (p. 68) noted two numbers for the type specimen. “No. 16889” is the USNM’s accession number for the type specimen.  
= *Leptasterias polaris acervata* forma *polythela* (Verrill, 1909). See Fisher (1930:62–63, 71–77).
- pompom*, *Paxillasterina* A.M. Clark, 1983:374–376, figs. 8, 9.  
Holotype: USNM E27407 (1 alcohol), Panama, San Blas Islands, Korbiski Reef, under coral rubble; 20 ft (6.1 m); G. Hendler; 14 February 1977.  
Paratypes: USNM 27568 (1 alcohol), Panama, San Blas Islands, Mackerel Reef; 3 m; H.A. Lessios; 5 November 1980.  
USNM E27569 (1 dry), Panama, Canal Zone, “Landing Craft Reef” south of Galeta Marine Laboratory; R. Bullock; September 1973.
- pontoporeus*, *Astropecten* Sladen, 1883:259–261.  
Syntypes: USNM E13715 (2 alcohol), *Challenger*, station not recorded, South Africa, Simon’s Bay, False Bay; 5–20 fm (9–37 m). Received in exchange from the British Museum (ex BMNH 90.5.7 271–290).  
= *Astropecten irregularis pontoporeus* (Sladen, 1883). See H.L. Clark (1926:6).
- porteri*, *Luidia* A.H. Clark, 1917c:153–154.  
Holotype: USNM 36947 (1 dry), *Albatross* 2787.
- prionota*, *Luidia* Fisher, 1913c:202. (Fisher, 1919a:164–166, pl. 41: figs. 5, 5a; pl. 45: figs. 1, 2.)



- Holotype: USNM 32622 (1 alcohol), *Albatross* 5181.  
*productus*, *Astropecten* Fisher, 1906b:1010–1012, pl. 2: figs. 5, 5a–f; pl. 4: figs. 1–3.  
 Holotype: USNM 21145 (1 alcohol), *Albatross* 4102.  
 Paratypes: USNM 31391 (1 alcohol), *Albatross* 4102.  
 USNM 32244 (3 alcohol), *Albatross* 4102.  
 USNM E42492 (1 alcohol), *Albatross* 4102.  
*productus*, *Plinthaster* A.H. Clark, 1917b:67–69.  
 Holotype: USNM 36930 (1 alcohol), *Albatross* 2154.  
 = *Diplasiaster productus* (A.H. Clark, 1917). See Halpern (1970b:7–9).  
*propinqua*, *Freyella* Ludwig, 1905:280–283.  
 Holotype: USNM 34380 (1 alcohol), *Albatross* 3398.  
*propinquus*, *Leptychaster* Fisher, 1910c:545. (Fisher, 1911a:54–55, pl. 9: fig. 3.)  
 Holotype: USNM 24338 (1 alcohol), *Albatross* 4792.  
 Specimen in poor condition, deteriorated, reduced to ossicles only.  
*propinquus*, *Odontaster* A.H. Clark, 1917a:7.  
 Holotype: USNM 36976 (1 dry), *Albatross* 2771.  
 = *Acodontaster elongatus granuliferus* (Koehler, 1912). See Fisher (1940:111–112).  
*pilonotus*, *Sidonaster* Fisher, 1913a:600–601. (Fisher, 1919a:37–39, pl. 1: figs. 2, 3; pl. 7: fig. 2.)  
 Holotype: USNM 30504 (1 alcohol), *Albatross* station not recorded; probably Philippines.  
*purpureus*, *Hymenaster* Ludwig, 1905:194–196.  
 Syntypes: USNM 34366 (2 alcohol), *Albatross* 3361.  
 Specimens in fair condition, some deterioration, very fragile.  
*pusilla*, *Brisingella* Fisher, 1917d:427–428. (Fisher, 1928a: 16–18, pl. 2: fig. 1; pl. 8: figs. 3, 3a,b.)  
 Holotype: USNM E1414 (1 alcohol), *Albatross* 4427, California, Santa Cruz Island, Point San Pedro; 447–510 fm (818–933 m); 14 April 1904. Specimen in fair condition, some deterioration of arm fragments and disc.  
*pusilla*, *Leptasterias* Fisher, 1930:118–120, pl. 45: figs. 3, 3a–d; pl. 46: figs. 2, 2a–d; pl. 54: fig. 5; pl. 55: figs. 1, 2, 7.  
 Holotype: USNM E1499 (1 alcohol), California, Monterey Bay, Cypress Point; intertidal; Hopkins Marine Station; 22 January 1921.  
 Paratypes: USNM E10164 (2 alcohol), California, Monterey Bay, Cypress Point; intertidal; Hopkins Marine Station; 22 January 1921.  
 USNM E32472 (5 alcohol), California, Monterey Bay, Cypress Point; intertidal; Hopkins Marine Station; 22 January 1921. Some specimens carrying eggs.  
*pusillulus*, *Astropecten* Fisher, 1906b:1008–1009, pl. 1: fig. 3; pl. 2: figs. 4, 4a,b.  
 Holotype: USNM 21144 (1 alcohol), *Albatross* 4116.  
 Paratypes: USNM 30786 (50+ alcohol), *Albatross* 4082.  
 USNM 30787 (30+ alcohol), *Albatross* 4083.  
 USNM 30788 (11 alcohol), *Albatross* 4096.  
 USNM 30789 (28 alcohol), *Albatross* 4181. Fisher stated in the list of material examined (p. 1009), that this station is probably an error for *Albatross* 4081.  
 USNM 31482 (2 alcohol), *Albatross* 3472.  
 USNM 31784 (12 alcohol), *Albatross* 4116.  
 USNM 31785 (3 alcohol), *Albatross* 4085.  
 USNM 31787 (5 alcohol), *Albatross* 4082. Missing from the USNM collections.  
 USNM 31788 (27 alcohol), *Albatross* 4082. Specimens in poor condition, deteriorated.  
 USNM 31789 (12 alcohol), *Albatross* 4084.  
 USNM 31790 (50 alcohol), *Albatross* 4083.  
 USNM 31796 (37 alcohol), *Albatross* 4082.  
 USNM 32208 (5 alcohol), *Albatross* 4116.  
 USNM 32209 (3 alcohol), *Albatross* 3472.  
 USNM 38045 (35 alcohol), *Albatross* station not recorded. Hawaiian Explorations, 1902.  
 USNM E9632 (30+ alcohol), *Albatross* 4044.  
 USNM E42491 (7 alcohol), *Albatross* 4116.  
*pusillus*, *Pseudarchaster* Fisher, 1905:304–305. (Fisher, 1911a:187–191, pl. 32: figs. 1, 4; pl. 33: fig. 1; pl. 57: figs. 4, 4a.)  
 Holotype: USNM 22335 (1 alcohol), *Albatross* 4423, California, San Nicolas Island, east point; 216–339 fm (395–620 m); 13 April 1904.  
 Paratypes: USNM 31836 (1 dry), *Albatross* 4423, California, San Nicolas Island, east point; 216–339 fm (395–620 m); 13 April 1904. Specimen in poor condition, portion of disc and arms intact, some ossicles.  
 USNM 30870 (2 alcohol), *Albatross* 4423, California, San Nicolas Island, east point; 216–339 fm (395–620 m); 13 April 1904.  
*pynopodia*, *Aphanasterias* Fisher, 1923b:601–602. (Fisher, 1930:160–162, pl. 70: figs. 6, 7; pl. 72: figs. 1–3.)  
 Holotype: USNM E1505 (1 alcohol), *Albatross* 2847.  
*qawashqari*, *Doraster* Moyano and Larrain, 1976:105–110, pl. 1: figs. 1–4; pl. 2: figs. 5–10.  
 Paratype: USNM E16255 (1 dry), *Hero* cruise 72 4 b, Chile, Golfo de Penas, Bahia Tarn, 47°45'S 075°45'W; 300 m; H.I. Moyano; 1 October 1972. Received from the University of Concepcion (Chile) in exchange for a paratype specimen of another *Doraster* species.  
*quadrispinosus*, *Hymenaster* Fisher, 1905:315.  
 Holotype: USNM 22344 (1 alcohol), *Albatross* 4387.  
 Specimen in poor condition, deteriorated, few fragments.  
*regalis*, *Hymenaster* Verrill, 1895:203–204.  
 Neotype: USNM E18204 (1 dry), *Gilliss* 74-04, sta. 87.  
 Remarks: Verrill's holotype has been considered lost since 1907 (note in USNM catalog). Clark and Downey (1992:320–321) made *Hymenaster kieri* Downey, 1979a a junior objective synonym by designating its holotype, the neotype of *Hymenaster regalis*.  
*regularis*, *Halityle* Fisher, 1913c:211–212. (Fisher, 1919a:362–366, pl. 94: fig. 7; pl. 98: fig. 1; pl. 99: figs. 1,

- 2; pl. 100: figs. 1, 2.)  
 Holotype: 32634 (1 dry), *Albatross* 5165.  
*regularis*, *Poraniella* Verrill, 1914b:19–20.  
 Holotype: USNM 10190 (1 dry), *Albatross* 2334.  
 Paratypes: USNM 18474 (1 dry), *Albatross* 2649.  
 USNM 10179 (1 dry), *Albatross* 2333.  
 USNM 10129 (1 dry), *Albatross* 2324.  
 Remarks: USNM catalog numbers 10129 and 10179 are labeled as *Marginaster austerus*, but one (USNM 10129) also bears the name *Poraniella regularis* (apparently all handwritten by Verrill). Although Verrill did not precisely designate his paratype material by either station number or USNM catalog number in his description, he stated “not uncommon in the Gulf of Mexico in 25–169 fathoms off W. Florida” and both specimens are within this depth range and locality. In a subsequent report (1915:72), Verrill listed both specimens by USNM numbers in his discussion of *P. regularis*. Clark (1984:25) and Clark and Downey (1992:205–206) detailed the taxonomic problems and conflicting label information associated with these specimens and determined that neither specimen was used in Verrill’s 1914 description of *Marginaster austerus*.  
 = *Poraniella echinulata* (Perrier, 1881). See Clark and Downey (1992:290–291).
- reticulatus*, *Hymenaster* Sibuet, 1976:307–309, figs. 1, 2.  
 Paratype: USNM E15779 (1 alcohol), west of France, 47°38’N 008°56’W; 3360 m; 1971.
- reticulatus*, *Pteraster* Fisher, 1906b:1098–1099, pl. 38: figs. 5, 5a; pl. 39: figs. 1, 2.  
 Holotype: USNM 21184 (1 alcohol), *Albatross* 3867.  
 Paratype: USNM 36403 (1 alcohol), *Albatross* 3472. Specimen in poor condition, deteriorated remains only.
- rhabdotus*, *Ophidiaster* Fisher, 1906b:1082–1083, pl. 30: fig. 2; pl. 31: fig. 8.  
 Holotype: 21178 (1 alcohol), *Albatross* 3982.
- rhodopeplus*, *Hymenaster* Fisher, 1916b:29. (Fisher, 1919a:463–465, pl. 129, pl. 130: fig. 1; pl. 133: fig. 6.)  
 Holotype: USNM 37017 (1 alcohol), *Albatross* 5606.
- romaleum*, subsp., *Myxoderma platyacanthum* Fisher, 1919b:393. (Fisher, 1928a:54–56, pl. 23: fig. 1.)  
 Holotype: USNM 37041 (1 alcohol), *Albatross* 2890.
- robusta*, *Henricia* Fisher, 1906b:1090–1091, pl. 35: figs. 1, 2; pl. 38: figs. 2, 2a.  
 Holotype: USNM 21181 (1 alcohol), *Albatross* 4115.
- robusta*, *Stolasterias* Ludwig, 1905:228–230.  
 Holotype: USNM 34408 (1 ray, alcohol), *Albatross* 3404.  
 Species described from only 2 disconnected arms.  
 = *Distolasterias robusta* (Ludwig, 1905). See Fisher (1928a:102).
- robustus*, *Archaster* Verrill, 1884:383.  
 Holotype: USNM 6644 (1 dry), *Albatross* 2116. Specimen labeled type in Verrill’s handwriting.  
 Paratypes: USNM 6279 (1 dry), *Albatross* 2096.  
 USNM 6687 (2 dry), *Albatross* 2103.  
 USNM 6734 (7 alcohol), *Albatross* 2111.  
 USNM 6738 (6 alcohol), *Albatross* 2102.  
 USNM 7855 (5 alcohol), *Albatross* 2208.  
 USNM 7857 (2 alcohol), *Albatross* 2210.  
 USNM 7858 (1 alcohol), *Albatross* 2217.  
 USNM 7911 (1 alcohol), *Albatross* 2209.  
 USNM 9080 (2 alcohol), *Albatross* 2084.  
 USNM 9199 (1 dry), *Albatross* 2035.  
 USNM 17978 (1 alcohol), *Albatross* 2076.  
 USNM 21649 (1 alcohol), *Albatross* 2077.  
 = *Bathybiaster vexillifer* (C.W. Thomson, 1873). See Mortensen (1927:61–63).
- robustus*, *Odontaster* Verrill, 1899:209–210, pl. 29: figs. 4, 4a.  
 Holotype: USNM 9758 (1 dry), *Fish Hawk* 994. Verrill incorrectly cited the *Albatross* as the collecting vessel.  
 Paratype: USNM 18423 (1 dry), *Albatross* 2586.
- robustus*, *Pectinaster* A.H. Clark, 1917c:155–157.  
 Holotype: USNM 36945 (1 dry), *Albatross* 2789.  
 = *Cheiraster robustus* (A.H. Clark, 1917). See A.M. Clark (1981:110).
- robustus*, *Psilaster* Fisher, 1913a:610–611. (Fisher, 1919a:103–106, pl. 16: figs. 4, 4a; pl. 20: fig. 1; pl. 21: fig. 3; pl. 30: fig. 3.)  
 Holotype: USNM 30518 (1 alcohol), *Albatross* 5632.
- rotundigranulum*, *Litonotaster* Halpern, 1969:139–142, figs. 6, 7.  
 Holotype: USNM E10862 (1 alcohol), *Gerda* 448.  
 = *Litonotaster intermedius* (Perrier, 1884). See Clark and Downey (1992:250–251).
- rudis*, *Cladaster* Verrill, 1899:176–177, pl. 28: figs. 2, 2a–c.  
 Holotype: USNM 18426 (1 dry), *Albatross* 2415. Verrill incorrectly cited station 1415 in his publication (p. 177).
- rugispina*, *Asterias* Stimpson, 1862:267.  
 Syntypes: USNM 1284 (10 dry), Chile, Tierra del Fuego, Orange Harbor; U.S. Exploring Expedition; Captain Wilkes.  
 = *Anasterias antarctica* (Lütken, 1857). See Fisher (1940:233–234).
- rugulosus*, *Anthenoides* Fisher, 1913a:648. (Fisher, 1919a:338–342, pl. 85: fig. 4; pl. 88: fig. 4; pl. 90: fig. 1; pl. 94: figs. 5, 5a–c.)  
 Holotype: USNM 30561 (1 alcohol), *Albatross* 5121.
- rupicola*, *Asterias* Verrill, 1876:71–72.  
 Syntypes: USNM 3145 (4 dry and ossicles in alcohol), Kerguelen Islands; on rocky beach; Transit of Venus Expedition; Dr. J.H. Kidder; 1874.  
 USNM E3769 (1 dry), Kerguelen Islands; on rocky beach; Transit of Venus Expedition; Dr. J.H. Kidder; 1874.  
 = *Anasterias rupicola* (Verrill, 1876). See Fisher (1940:234).
- sacculatus*, *Zoroaster* (*Myxoderma*) Fisher, 1905:316–317. (Fisher, 1928a:45–49, pl. 21: fig. 2; pl. 22: fig. 2.)  
 Holotype: USNM 22346 (1 alcohol), *Albatross* 4517, California, Monterey Bay, Point Pinos Light House; 750–766 fm (1372–1401 m); 24 May 1904.  
 = *Myxoderma sacculatum* (Fisher, 1905). See Fisher (1919b:391–392).

- sadhensis*, *Ferdina* Marsh and Campbell, 1991:214–218, figs. 1–3.  
 Paratype: USNM E41400 (1 dry), Oman, Urchin Point, 16 km east of Marbat, Dhofar; 8–10 m; M. Morrison; 5 January 1990.
- scalaris*, *Freyella* A.H. Clark, 1916d:115–116.  
 Syntypes: USNM 36950 (3 alcohol), *Albatross* 2807.  
 USNM 39899 (1 dry), *Albatross* 2807.  
 = *Freyellaster scalaris* (A.H. Clark, 1916). See Fisher (1918:104).
- schefferi*, *Aleutiaster* A.H. Clark, 1939b:498–500, pl. 57: figs. 1–4.  
 Holotype: USNM E5600 (1 dry), Alaska, Aleutian Islands, Attu Island; 2–7 fm (4–13 m); U.S. Bureau of Biological Survey; V.B. Scheffer; 10 June 1937.  
 Paratype: USNM E5601 (1 dry), Alaska, Aleutian Islands, Amchitka Island; 1–5 fm (2–9 m); U.S. Bureau of Biological Survey; V.B. Scheffer; 19 July 1937.
- sclerodermus*, *Ophidiaster* Fisher, 1906b:1081–1082, pl. 30: figs. 4, 4a; pl. 31: figs. 2, 2a.  
 Holotype: USNM 21175 (1 dry), *Albatross* 4077.  
 Paratype: USNM E9692 (1 alcohol), *Albatross* 4077.  
 = *Tamaria scleroderma* (Fisher, 1906). See Ziesenhenné (1942:210).
- scotocryptus*, *Sphaeriodiscus* Fisher, 1913a:641–642. (Fisher, 1919a:287–290, pl. 79: fig. 5; pl. 80: fig. 4; pl. 83: figs. 6, 7; pl. 92: figs. 10, 10a.)  
 Holotype: USNM 30553 (1 alcohol), *Albatross* 5425.
- scotophilus*, *Solaster* Fisher, 1913c:222. (Fisher, 1919a:447–449, pl. 124: fig. 1; pl. 133: figs. 3, 3a.)  
 Holotype: USNM 32648 (1 alcohol), *Albatross* 5651.  
 = *Crossaster scotophilus* (Fisher, 1913). See Fisher (1919a:447–449).
- segnis*, subsp., *Pisaster ochraceus* Fisher, 1926a:560–561, pl. 20: fig. 3. (Fisher, 1930:171–172, pl. 73: fig. 8; pl. 84: fig. 1.)  
 Holotype: USNM E1238 (1 dry), Mexico, Baja California, sixteen miles south of international boundary; low tide; collected by Ricketts and Martin; 13 May 1925.
- semimarginalis*, *Albatrossia* Ludwig, 1905:97–100, pl. 6: figs. 30, 31.  
 Syntypes: USNM 34339 (1 alcohol), *Albatross* 3371.  
 USNM 34340 (1 alcohol), *Albatross* 3362.  
 = *Porcellanaster ceruleus* C.W. Thomson, 1877. See Madsen (1961:123–142).
- seminuda*, *Cyllaster* A.H. Clark, 1916c:61–62.  
 Holotype: USNM 38316 (1 dry), *Albatross* 2993.  
 = *Henricia seminuda* (A.H. Clark, 1916). See Spencer and Wright (1966:U70).
- sepius*, *Archaster* Verrill, 1885:151–152.  
 Lectotype: USNM 24526 (1 dry), *Fish Hawk* 994. Verrill referred to this specimen as “young.” The characters of the species are quite variable; Verrill failed to provide a thorough description; further, this species has a wide range of depths and localities. It was considered necessary to select a lectotype from Verrill’s specimens. Lectotype designated by A.M. Clark (pers. comm., April 1993).
- Paralectotypes: USNM 9369 (2 alcohol and 1 dry), *Albatross* 2072. The specimens in alcohol are reduced to fragments and ossicles. The dried specimen has been referred to *Pectinaster filholi* by Clark and Downey (1992:129–130). = *Cheiraster (Cheiraster) sepius* (Verrill, 1885). See A.M. Clark (1981:117–118).
- sertulifera*, *Asterias* Xantus, 1861:568.  
 Holotype: USNM 1252 (1 dry), Mexico, Cape San Lucas, on rocks at low water mark. One ray only.  
 = *Astrometis sertulifera* (Xantus, 1861). See Fisher (1923a:254).
- setosus*, *Odontaster* Verrill, 1899:207–209, pl. 29: figs. 1–1c, 2.  
 Syntypes: USNM 7661 (1 dry), *Albatross* 2177.  
 USNM 11202 (1 dry), *Albatross* 2555.  
 Remarks: Verrill examined specimens of *O. setosus* from many *Albatross* stations; however, specimens listed here were the only specimens in the USNM collections. Verrill provided measurements and probably described two specimens that are much larger than the two syntypes listed above.  
 = *Odontaster robustus* Verrill, 1899. See Clark and Downey (1992:157–158).
- simplex*, *Pentagonaster* Verrill, 1895:135.  
 Holotype: USNM 13363 (1 dry), *Fish Hawk* 1124.  
 = *Ceramaster granularis granularis* (Retzius, 1783). See Halpern (1970c:66–69).
- sirius*, *Plutonaster* A.H. Clark, 1917c:151–153.  
 Syntypes: USNM 36949 (2 alcohol), *Albatross* 2788.  
 Although A.H. Clark provided measurements for the single specimen he described, he did not segregate the type from the other specimen. Both specimens are now fragmented and a bit disintegrated and the type cannot be distinguished from the other.
- sladeni*, *Psilaster* Ludwig, 1905:57–59.  
 Holotype: USNM 34410 (1 alcohol), *Albatross* 3407.
- smithi*, *Ceramaster* Fisher, 1913a:640–641. (Fisher, 1919a:257–260, pl. 57: fig. 1; pl. 58: fig. 2; pl. 91: figs. 7, 7a–c.)  
 Holotype: USNM 30551 (1 alcohol), *Albatross* 5201.
- snyderi*, *Cheiraster* Fisher, 1906b:1040–1042, pl. 10: fig. 3; pl. 18: figs. 1, 3.  
 Holotype: USNM 21155 (1 alcohol), *Albatross* 3997.  
 Paratypes: USNM 30848 (1 alcohol), *Albatross* 3995.  
 USNM 30849 (1 alcohol), *Albatross* 3998.  
 USNM 30850 (1 alcohol), *Albatross* 4007.
- sohariae*, *Paraferdina* Marsh and Price, 1991:66–69, figs. 4–7.  
 Paratype: USNM E40225 (1 alcohol), Sri Lanka, Deumba Gala, Galle, on rock; 12–15 m; Sinbad Voyage; 25 January 1981.
- spatulifera*, *Freyella* Fisher, 1916b:34–35. (Fisher, 1919a: 538–540, pl. 144: fig. 1; pl. 154: fig. 3; pl. 155: figs. 1,



- 1a-i.)  
 Holotype: USNM 36747 (1 alcohol), *Albatross* 5668.  
 = *Freyellaster spatulifer* (Fisher, 1916). See Fisher (1918:103-104).
- spectabilis*, *Calliderma* Fisher, 1906b:1058-1061, pl. 24: figs. 1, 2; pl. 25: figs. 1-3; pl. 26: fig. 3.  
 Holotype: USNM 21166 (1 dry), *Albatross* 3938.  
 Paratypes: USNM 31622 (1 alcohol), *Albatross* 4098.  
 USNM 31623 (3 alcohol), *Albatross* 4077.  
 USNM 31913 (1 alcohol), *Albatross* 4077.  
 USNM 31914 (1 alcohol), *Albatross* 4077.  
 USNM 31915 (1 alcohol), *Albatross* 4077.  
 USNM 31916 (1 alcohol), *Albatross* 4077.  
 USNM 31917 (1 alcohol), *Albatross* 4077.  
 USNM 31918 (1 alcohol), *Albatross* 4098.  
 USNM 32203 (3 alcohol), *Albatross* 4077.  
 USNM 32204 (1 dry), *Albatross* 4102.  
 USNM 32266 (3 alcohol), *Albatross* 4077.
- sphaerioplax*, *Patagiaster* Fisher, 1913a:623. (Fisher, 1919a:154-157, pl. 28: fig. 3; pl. 29: fig. 3; pl. 41: figs. 4, 4a.)  
 Holotype: USNM 30531 (1 alcohol), *Albatross* 5178.
- sphaeriosstictus*, *Astroceramus* Fisher, 1913a:644. (Fisher, 1919a:313-316, pl. 81: fig. 2; pl. 82: fig. 2; pl. 84: figs. 4, 7; pl. 94: figs. 1, 1a.)  
 Holotype: USNM 30556 (1 alcohol), *Albatross* 5135.
- spiculatus*, subsp., *Koremaster evaulus* Fisher, 1919a:161-163, pl. 33: fig. 1; pl. 34: fig. 1; pl. 40: figs. 3, 3a-f.  
 Holotype: USNM 37013 (1 alcohol), *Albatross* 5332.  
 Paratypes: USNM 40363 (2 alcohol), *Albatross* 5332.  
 USNM 40804 (2 alcohol), *Albatross* 5332.
- spinus*, *Benthopecten* Verrill, 1884:218.  
 Holotype: USNM 9193 (1 dry), *Albatross* 2035. Verrill designated this specimen the type (handwritten label with specimen).  
 Paratypes: USNM 6292 (4 alcohol), *Albatross* 2096.  
 USNM 9056 (13 alcohol), *Albatross* 2041.  
 USNM 9147 (1 dry), *Albatross* 2035.
- spinuliger*, *Pararchaster* Ludwig, 1905:23-29, pl. 19: fig. 101.  
 Syntypes: USNM 34424 (1 alcohol), *Albatross* 3365.  
 USNM 34425 (5 alcohol), *Albatross* 3363.  
 USNM 34453 (1 alcohol), *Albatross* 3407. Specimen in poor condition, deteriorated, reduced to ossicles, few fragments, disc intact but fragile.  
 USNM 34423 (3 alcohol), *Albatross* 3392.  
 = *Benthopecten spinuliger* (Ludwig, 1905). See Fisher (1911a:142-143).
- spinulosa*, *Porania* Verrill, 1879a:202-203.  
 Syntype: USNM 13758 (1 dry), Gloucester Fisheries, sta. 365, Schooner *Howard*.  
 = *Poraniomorpha hispida* (M. Sars, 1872). See Clark and Downey (1992:216-217).
- spinulosus*, *Zoroaster* Fisher, 1906b:1102-1104, pl. 24: fig. 3; pl. 41: fig. 2; pl. 42: figs. 5, 6.  
 Holotype: USNM 21187 (1 alcohol), *Albatross* 3892.  
 Paratype: USNM 31382 (1 alcohol), *Albatross* 4139.  
 USNM 32210 (1 alcohol), *Albatross* 4112.
- squameus*, *Ophidiaster* Fisher, 1906b:1079-1080, pl. 31: figs. 6, 6a,b; pl. 37: fig. 4.  
 Holotype: USNM 21174 (1 alcohol), *Albatross* 4100.  
 Paratype: USNM E9640 (1 alcohol), *Albatross* 4023.
- stenostichus*, *Paragonaster* Fisher, 1913a:627-628. (Fisher, 1919a:232-235, pl. 60: fig. 2; pl. 70: fig. 2; pl. 71: fig. 1; pl. 91: figs. 10, 10a.)  
 Holotype: USNM 30537 (1 alcohol), *Albatross* 5289.
- stereosomus*, *Echinaster* Fisher, 1913b:195-196. (Fisher, 1919a:430-432, pl. 122: figs. 2, 3; pl. 132: figs. 6, 6a-c.)  
 Holotype: USNM 37001 (1 alcohol), *Albatross* 5483.
- stolacantha*, *Leptasterias* Fisher, 1930:135-137, pl. 13; pl. 18: figs. 4, 5.  
 Holotype: USNM E1504 (1 alcohol), *Albatross* 3322.  
 Paratypes: USNM E10161 (3 alcohol), *Albatross* 3321.  
 USNM E42531 (6 alcohol), *Albatross* 3319.  
 USNM E42532 (3 alcohol), *Albatross* 3322.  
 USNM E42533 (1 alcohol), *Albatross* 4777.  
 USNM 6095 (1 dry), Alaska, Aleutian Islands, Kiska Island, Kiska Harbor; sta. 188 (1014), 189 (1015), and 173; W.H. Dall.  
 USNM E42530 (1 alcohol), Alaska, Aleutian Islands, Kiska Island, Kiska Harbor; sta. 188 (1014), 189 (1015), and 173; W.H. Dall. Specimen in poor condition, deteriorated, reduced to ossicles.
- stria*, *Tamaria* Downey, 1975:87-88, fig. 34.  
 Holotype: USNM E11838 (1 dry), Colombia, Malpelo Island, on rubble near base of vertical rock wall; sta. 4; 160 ft (48.8 m); C. Birkeland; 1-2 March 1972.  
 Paratypes: USNM E12431 (1 dry), Colombia, Malpelo Island, on rubble near base of vertical rock wall; sta. 4; 160 ft (48.8 m); C. Birkeland; 1-2 March 1972.  
 USNM E11839 (3 dry), Colombia, Malpelo Island; sta. 4 and 5; 120-160 ft (36.6-48.8 m); C. Birkeland; 1-2 March 1972.
- styracia*, *Dissogenes* Fisher, 1913c:212-213. (Fisher, 1919a:368-370, pl. 102: fig. 1; pl. 103: fig. 1; pl. 131: figs. 1, 1a,b.)  
 Holotype: USNM 32635 (1 alcohol), *Albatross* 5617.
- styracius*, *Benthopecten* Fisher, 1913c:208-209. (Fisher, 1919a:213-215, pl. 53: fig. 2; pl. 55: figs. 3, 3a.)  
 Holotype: USNM 32631 (1 alcohol), *Albatross* 5668.
- subgracilis*, var., *Astropecten americanus* Verrill, 1915:186-187.  
 Holotype: USNM 18464 (1 dry), *Albatross* 2143.  
 = *Astropecten americanus* (Verrill, 1880). See Clark and Downey (1992:29).
- sulcatus*, *Astropecten* Ludwig, 1905:64-68, pl. 4: figs. 15, 16.  
 Syntypes: USNM 34334 (1 alcohol), *Albatross* 3368.  
 USNM 34309 (2 alcohol), *Albatross* 3379.
- suluensis*, *Lophaster* Fisher, 1913c:219-220. (Fisher,

- 1919a:449–451, pl. 123: fig. 2; pl. 124: fig. 3; pl. 132: figs. 8, 8a.)  
 Holotype: USNM 32646 (1 alcohol), *Albatross* 5423.
- suluensis*, *Persephonaster* Fisher, 1913a:616–617. (Fisher, 1919a:125–127, pl. 22: fig. 2; pl. 23: fig. 1; pl. 38: figs. 1, 1a–e.)  
 Holotype: USNM 30525 (1 alcohol), *Albatross* 5424.  
*superba*, *Luidia* A.H. Clark, 1917d:171–173.  
 Holotype: USNM 36948 (1 alcohol), *Albatross* 2797.
- swifti*, *Mimaster* Fisher, 1905:301–302. (Fisher, 1911a:175–179, pl. 30: fig. 2; pl. 57: fig. 2a–c; pl. 59: fig. 5a.)  
 Holotype: USNM 22332 (1 dry), *Albatross* 4253, Alaska, Stephens Passage, Thistle Ledge; 131–188 fm (240–344 m); 14 July 1903.  
 = *Gephyreaster swifti* (Fisher, 1905). See Fisher (1911a:175–179).
- synaptoma*, *Craterobrisinga* Fisher, 1917d:426–427. (Fisher, 1928a:8–11, pl. 1; pl. 6; pl. 7: fig. 3; pl. 12: fig. 3.)  
 Holotype: USNM E1413 (1 alcohol), *Albatross* 3342.  
 Paratypes: USNM E1168 (1 alcohol), *Albatross* 3342.  
 USNM E9296 (2 dry), *Albatross* 3342.  
 = *Brisinga synaptoma* (Fisher, 1917). See Downey (1986:4–5).
- synaptorus*, *Pergamaster* Fisher, 1940:122–123, pl. 2: fig. 3; pl. 3: fig. 1.  
 Paratype: USNM E17219 (1 alcohol), *Discovery* 170.
- syrtsensis*, *Solaster* Verrill, 1894:271–273.  
 Holotype: USNM 18143 (1 dry), Schooner *Martha Cunningham*, sta. 614, Massachusetts, off NE part of Georges Bank; 45 fm (82 m); Gloucester Fisheries; Captain C. Martin; 31 January 1880.  
 Paratypes: USNM 24582 (1 dry), *Speedwell* 85–86.  
 USNM 24788 (1 dry), *Speedwell* 264.  
 USNM E1594 (1 dry), Schooner *William V. Hutchings*, sta. 369; Gloucester Fisheries.
- tanneri*, *Asterias* Verrill, 1880b:401–402.  
 Syntype: USNM 9520 (1 alcohol), *Fish Hawk* 872.  
 = *Sclerasterias tanneri* (Verrill, 1880). See Fisher (1924a:2–4).
- temnochiton*, *Pteraster* Fisher, 1910a:169. (Fisher, 1911a:355–357, pl. 103: figs. 2, 3; pl. 115: fig. 3; pl. 116: figs. 3, 3a.)  
 Holotype: USNM 27793 (1 alcohol), *Albatross* 4784.  
 Specimen in poor condition, deteriorated, few fragile fragments remain.
- tenebrarius*, *Porcellanaster* (*Eremicaster*) Fisher, 1905:293–294. (Fisher, 1911a:24–29, pl. 1: fig. 1; pl. 53: fig. 4a.)  
 Holotype: USNM 22326 (1 alcohol), *Albatross* 4397.  
 = *Eremicaster tenebrarius* (Fisher, 1905). See Ludwig (1907:317–318).
- tenella*, *Brisinga* Ludwig, 1905:255–258.  
 Holotype: USNM 34341 (1 alcohol), *Albatross* 3400.  
 = *Brisingella tenella* (Ludwig, 1905). See Fisher (1917d:421, 423, 427).
- tenellus*, *Astropecten* Fisher, 1913a:606–607. (Fisher, 1919a:84–87, pl. 11: figs. 1, 2; pl. 15: figs. 1, 1a,b.)  
 Holotype: USNM 30513 (1 alcohol), *Albatross* 5453.
- tenellus*, *Mediaster* Fisher, 1905:307–308. (Fisher, 1911a:202–204, pl. 36: figs. 1, 2; pl. 57: figs. 3, 3a–d; pl. 59: fig. 2.)  
 Holotype: USNM 22337 (1 alcohol), *Albatross* 4427, California, Santa Cruz Island, Point San Pedro; 447–510 fm (818–933 m); 14 April 1904.
- tenellus*, *Ophidiaster* Fisher, 1906b:1082, pl. 31: figs. 5, 5a.  
 Holotype: USNM 21177 (1 alcohol), *Albatross* 4100.
- tenera*, *Asterias* Stimpson, 1862:269–270.  
 Syntypes: USNM 1256 (5 dry), Massachusetts, Massachusetts Bay, 10 miles (16 km) south of Cape Ann; 20 fm (37 m); W. Stimpson.  
 USNM 1257 (1 dry), Massachusetts, Massachusetts Bay, 10 miles (16 km) south of Cape Ann; 20 fm (37 m); W. Stimpson.  
 = *Leptasterias tenera* (Stimpson, 1862). See Verrill (1873:504).
- tenuis*, *Persephonaster* Fisher, 1913a:615–616. (Fisher, 1919a:121–123, pl. 22: fig. 1; pl. 23: fig. 2; pl. 30: fig. 1; pl. 37: figs. 1, 1a–d.)  
 Holotype: USNM 30523 (1 alcohol), *Albatross* 5301.
- tenuis*, *Tarachaster* Fisher, 1913c:217. (Fisher, 1919a:402–405, pl. 41: figs. 7, 7a; pl. 120: fig. 4; pl. 121: fig. 3; pl. 126: fig. 1.)  
 Holotype: USNM 32642 (1 alcohol), *Albatross* 5543.
- trachydisca*, *Brisinga* Fisher, 1916b:31–32. (Fisher, 1919a:510–512, pl. 145; pl. 149: fig. 5; pl. 152: fig. 1c; pl. 156: figs. 1, 1a.)  
 Holotype: USNM 37020 (1 alcohol), *Albatross* 5491.
- transfuga*, *Mediaster* Ludwig, 1905:120–125, pl. 8: figs. 44, 45; pl. 22: figs. 122–125; pl. 25: figs. 139–141.  
 Syntypes: USNM 34442 (6 alcohol), *Albatross* 3417.  
 Specimens in poor condition, reduced to ossicles, disc, and few fragments.
- trias*, *Hymenaster* H.L. Clark, 1920:93–94, pl. 3: figs. 1, 2.  
 Holotype: USNM E937 (1 alcohol), *Albatross* 4672.
- trigonodon*, *Pteraster* Fisher, 1910a:168. (Fisher, 1911a:348–349, pl. 99: figs. 1, 2; pl. 115: fig. 2; pl. 116: figs. 2, 2a.)  
 Holotype: USNM 27790 (1 alcohol), *Albatross* 4427, California, Santa Cruz Island, Point San Pedro; 447–510 fm (818–933 m); 14 April 1904. Specimen in poor condition, deteriorated, few fragile fragments remain.
- triplacanthus*, *Cheiraster* Fisher, 1913c:206–207. (Fisher, 1919a:205–208, pl. 48: figs. 3, 4; pl. 55: figs. 1, 1a.)  
 Holotype: USNM 32628 (1 alcohol), *Albatross* 5651.
- triremis*, *Asterias* (*Smilasterias*) Sladen, 1889:579–581, pl. 101: figs. 5, 6; pl. 102: figs. 5, 6.  
 Syntype: USNM E3999 (1 dry), *Challenger* 150. Specimen donated to W.K. Fisher in 1923 by BM(NH).  
 = *Smilasterias triremis* (Sladen, 1889). See Fisher (1930:239).

- triseriatus*, *Ophidiaster* Fisher, 1906b:1080–1081, pl. 30: fig. 3; pl. 31: figs. 7, 7a.  
 Holotype: USNM 21176 (1 alcohol), *Albatross* 4128.  
 Paratype: USNM E9644 (1 alcohol), *Albatross* 4128.
- tropicus*, *Solaster* Fisher, 1913c:221. (Fisher, 1919a:444–447, pl. 125; pl. 126: fig. 2; pl. 133: figs. 2, 2a,b.)  
 Holotype: USNM 32647 (1 alcohol), *Albatross* 5654.
- trosccheli*, *Asterias* Stimpson, 1862:267–268.  
 Holotype: USNM 1306 (1 ray dry and fragment in alcohol), Washington, Puget Sound; Northwest Boundary Commission; Dr. C.B. Kennerly.  
 Remarks: Small fragment in alcohol labeled “pedicellaria of type” by W.K. Fisher and returned by the California Academy of Sciences.  
 = *Evasterias trosccheli* (Stimpson, 1862). See Verrill (1914a:151–155).
- truculenta*, subsp., *Leptasterias coei* Fisher, 1930:86–89, pl. 24: fig. 3; pl. 25; pl. 26; pl. 29: figs. 1, 2, 4.  
 Holotype: USNM E1492 (1 dry), Alaska, Aleutian Islands, Unalaska, Captains Bay, Ridge; sta. 1749; W.H. Dall; 1880.  
 Paratypes: USNM E3617 (5 dry), *Albatross* 4779.  
 USNM E25078 (9 alcohol), *Albatross* 4779.  
 USNM E25079 (2 alcohol), *Albatross* 4777.
- trychnus*, *Ophidiaster* Fisher, 1913c:215. (Fisher, 1919a:390–393, pl. 84: fig. 5; pl. 95: figs. 6, 6a,c,d; pl. 103: figs. 2, 3; pl. 107: fig. 6.)  
 Holotype: USNM 32639 (1 alcohol), *Albatross* shore station, Philippines, north coast of Samar, Port Palapag; April 1908.
- tuberculosus*, *Asterodiscus* Fisher, 1906b:1075–1076, pl. 26: figs. 2, 2a; pl. 28: fig. 3; pl. 32: figs. 4, 5; pl. 33: fig. 2; pl. 34: figs. 1, 2.  
 Holotype: USNM 21172 (1 alcohol), *Albatross* 3940.  
 Paratypes: USNM 31350 (2 alcohol), *Albatross* 4128.  
 = *Asterodiscides tuberculosus* (Fisher, 1906). See Rowe (1977a:207–208).
- tumidus*, *Litonotaster* H.L. Clark, 1920:83–85, pl. 3: figs. 3–6.  
 Holotype: USNM E14827 (1 alcohol), *Albatross* 4672.  
 Paratypes: USNM E705 (2 dry), *Albatross* 4672.  
 USNM E26851 (4 alcohol), *Albatross* 4672.  
 USNM E26852 (1 alcohol), *Albatross* 4656.
- tumulosa*, *Nardoa* Fisher, 1917b:90. (Fisher, 1919a:386–387, pl. 95: fig. 9; pl. 109: fig. 2; pl. 111: fig. 2.)  
 Holotype: USNM 37028 (1 alcohol), *Albatross* 5160.
- tyloderma*, *Pentaceropsis* Fisher, 1913c:209–210. (Fisher, 1919a:350–354, pl. 94: figs. 8, 8a,b; pl. 97: fig. 1; pl. 98: fig. 2; pl. 100: fig. 1.)  
 Holotype: USNM 32632 (1 alcohol), *Albatross* shore station, Philippines, Mindanao, east of Zamboanga, Tictauan Island; 8 September 1909.
- validus*, *Cladaster* Fisher, 1910c:552–553. (Fisher, 1911a: 222–223, pl. 41: figs. 1, 2.)  
 Holotype: USNM 27884 (1 alcohol), *Albatross* 3480.
- validus*, *Sarkaster* Ludwig, 1905:185–191, pl. 15: figs. 75, 76; pl. 29: figs. 171–173; pl. 30: figs. 174–176.  
 Syntypes: USNM 34413 (1 alcohol), *Albatross* 3403.  
 Specimen in fair condition, some deterioration, very fragmented.  
 USNM 34414 (1 alcohol), *Albatross* 3425.  
 USNM 34415 (1 alcohol), *Albatross* 3385.  
 = *Lophaster validus* (Ludwig, 1905). See Fisher (1911a:334).
- variabilis*, *Acantharchaster* Fisher, 1910c:550. (Fisher, 1911a:137–138, pl. 24: fig. 2; pl. 27: fig. 4; pl. 55: fig. 2a.)  
 Holotype: USNM 27800 (1 alcohol), *Albatross* 3331.  
 = *Nearchaster variabilis* (Fisher, 1910). See Fisher (1911a:137–138).
- variabilis*, *Nepanthia* H.L. Clark, 1938:176–179, pl. 10: figs. 4, 5; pl. 20: figs. 4, 5.  
 Paratype: USNM E6626 (1 dry), Western Australia, Broome; H.L. Clark; 26 August 1929.
- variispina*, *Brisinga* Ludwig, 1905:249–255.  
 Syntype: USNM 34335 (1 alcohol), *Albatross* 3689, Tuamotu Archipelago, NW Pt. Marokau; 807 fm (1476 m); 28 October 1899.
- verrilli*, *Hydrasterias* Fisher, 1906b:1106–1107, pl. 41: figs. 3, 3a,b.  
 Holotype: USNM 21189 (1 alcohol), *Albatross* 3867.  
 Specimen in fair condition, fragments and some ossicles.  
 = *Tarsastrocles verrilli* (Fisher, 1906). See Fisher (1923b:597, 605).
- verrilli*, *Lophaster* A.H. Clark, 1938:6–7.  
 Holotype: USNM 10512 (1 alcohol), *Albatross* 2415.
- verrilli*, *Pseudarchaster* Ludwig, 1905:116–120, pl. 7: figs. 38, 39; pl. 23: figs. 129–131.  
 Holotype: USNM 34416 (1 alcohol), *Albatross* 3356.  
 Specimen in poor condition, deteriorated, reduced to ossicles only.
- vexator*, subsp., *Lophaster furcilliger* Fisher, 1910d:574. (Fisher, 1911a:338–340, pl. 80: figs. 1, 2; pl. 114: figs. 2, 2a.)  
 Holotype: USNM 27789 (1 alcohol), *Albatross* 3350.
- vicinus*, *Porcellanaster* Ludwig, 1907:318.  
 Syntypes: USNM E941 (2 dry and 25 alcohol), *Albatross* 4670.  
 USNM E704 (1 dry), *Albatross* 4670.  
 = *Eremicaster vicinus* (Ludwig, 1907). See Fisher (1907: 12–14).
- violaceus*, *Hymenaster* Ludwig, 1905:196–198.  
 Holotype: USNM 34347 (1 alcohol), *Albatross* 3415.
- virgo*, *Evoplosoma* Downey, 1982:772–773, fig. 1.  
 Holotype: USNM E24285 (1 dry), *Alaminos* 71-A-8, sta. 8.
- waltharii*, *Porcellanaster* Ludwig, 1905:92–97, pl. 5: figs. 26, 27.  
 Syntypes: USNM 34390 (2 alcohol), *Albatross* 3415. Ludwig incorrectly cited sta. 2415 in his report (p. 92). Specimens in poor condition, deteriorated, few fragments.  
 USNM 34391 (5 alcohol), *Albatross* 3361. Specimens in



- poor condition, deteriorated, reduced to ossicles, few fragments.
- USNM 34392 (3 alcohol), *Albatross* 3360. Specimens in poor condition, deteriorated, reduced to ossicles, few fragments.
- USNM 34393 (3 alcohol), *Albatross* 3381.
- USNM 34394 (2 alcohol), *Albatross* 3374. Specimens in poor condition, deteriorated, reduced to ossicles, few fragments.
- USNM 34395 (fragments, alcohol), *Albatross* 3399. Ludwig reported 7 specimens; however, the specimens are so deteriorated, it's impossible to determine the count.
- USNM 34396 (1 alcohol), *Albatross* 3400. Specimen in poor condition, deteriorated, reduced to ossicles, few fragments.
- USNM 34397 (1 alcohol), *Albatross* 3414.  
= *Eremicaster gracilis* (Sladen, 1883). See Madsen (1961:155-161).
- xandaros*, *Midgardia* Downey, 1972:422-425, fig. 1A,B.  
Holotype: USNM E11420 (1 dry), *Alaminos* 69-A-11, sta. 58.  
Paratype: USNM E11421 (1 dry), *Alaminos* 69-A-11, sta. 58.
- yucatanensis*, *Apollonaster* Halpern, 1970b:9-12, figs. 4, 5.  
Holotype: USNM E11285 (1 dry), *Gerda* 899.
- zenognathus*, *Hymenasterides* Fisher, 1911d:425-427. (Fisher, 1919a:468-470, pl. 127: figs. 4, 5; pl. 128: fig. 2; pl. 134: fig. 1.)  
Holotype: USNM 28660 (1 alcohol), *Albatross* 5623.

## Appendix

### List of Stations

(n.r. = not recorded in depth; - = no seconds reading for latitudes or longitudes provided in station log.)

Station	Latitude	Longitude	Depth		Date
			(fm)	(m)	
<i>Alaminos cruise 68-A-7</i>					
3C	27 36 -N	087 41 30W	1500	2743	27 Jul 1968
4A	25 20 -N	086 07 -W	1770	3237	28 Jul 1968
4E	25 24 48N	086 16 30W	1716	3138	29 Jul 1968
<i>Alaminos cruise 68-A-13</i>					
21	27 38 -N	095 21 30W	280-350	512-640	19 Nov 1968
<i>Alaminos cruise 69-A-11</i>					
58	19 02 36N	095 27 30W	260	475	18 Aug 1969
<i>Alaminos cruise 70-A-10</i>					
6	20 45 -N	086 27 24W	510-570	933-1042	06 Jul 1970
<i>Alaminos cruise 71-A-8</i>					
8	26 08 -N	092 43 54W	1124	2056	30 Jul 1971
University of Iowa Bahama (Florida Keys and West Indies) Expedition					
56	24 26 -N	081 22 -W	200	366	27 Jun 1893
57	24 18 -N	081 18 -W	200-225	366-412	27 Jun 1893
U.S.F.C.S. <i>Albatross</i>					
2011	36 38 30N	074 40 10W	81	148	30 Apr 1883
2012	36 41 15N	074 39 50W	66.5	121	30 Apr 1883
2014	36 41 05N	074 38 55W	373	682	01 May 1883
2027	39 58 25N	070 37 00W	198	362	25 May 1883
2035	39 26 16N	070 02 37W	1362	2491	17 Jul 1883
2037	38 53 00N	069 23 30W	1731	3166	18 Jul 1883
2038	38 30 30N	069 08 25W	2033	3718	26 Jul 1883
2041	39 22 50N	068 25 00W	1608	2941	30 Jul 1883
2042	39 33 00N	068 26 45W	1555	2844	30 Jul 1883
2043	39 49 00N	068 28 30W	1467	2683	30 Jul 1883
2051	39 41 00N	069 20 20W	1106	2023	01 Aug 1883
2052	39 40 05N	069 21 25W	1098	2008	01 Aug 1883
2060	42 10 00N	066 46 15W	123	225	31 Aug 1883
2072	41 53 00N	065 35 00W	858	1569	02 Sep 1883
2076	41 13 00N	066 00 50W	906	1657	04 Sep 1883
2077	41 09 40N	066 02 20W	1255	2295	04 Sep 1883
2084	40 16 50N	067 05 15W	1290	2359	05 Sep 1883
2095	39 29 00N	070 58 40W	1342	2455	30 Sep 1883
2096	39 22 20N	070 52 20W	1451	2654	30 Sep 1883
2097	37 56 20N	070 57 30W	1917	3506	01 Oct 1883
2102	38 44 00N	072 38 00W	1209	2211	05 Nov 1883
2103	38 47 20N	072 37 00W	1091	1995	05 Nov 1883

Station	Latitude	Longitude	Depth		Date
			(fm)	(m)	
2105	37 50 00N	073 03 50W	1395	2551	06 Nov 1883
2106	37 41 20N	073 03 20W	1497	2738	06 Nov 1883
2111	35 09 50N	074 57 40W	938	1716	09 Nov 1883
2115	35 49 30N	074 34 45W	843	1542	11 Nov 1883
2116	35 45 23N	074 31 25W	888	1624	11 Nov 1883
2117	15 24 40N	063 31 30W	683	1249	27 Jan 1884
2128	19 55 46N	075 49 23W	400	732	27 Feb 1884
2138	17 44 05N	075 39 00W	23	42	29 Feb 1884
2143	09 30 45N	076 25 30W	155	283	23 Mar 1884
2154	23 10 16N	082 22 54W	310	567	30 Apr 1884
2174	38 15 00N	072 03 00W	1594	2915	21 Jul 1884
2177	39 33 40N	072 08 45W	87	159	22 Jul 1884
2183	39 57 45N	070 56 30W	195	357	02 Aug 1884
2208	39 33 00N	071 16 15W	1178	2155	21 Aug 1884
2209	39 34 45N	071 31 30W	1080	1975	21 Aug 1884
2210	39 37 45N	071 18 45W	991	1813	21 Aug 1884
2211	39 35 00N	071 18 00W	1064	1946	21 Aug 1884
2217	39 47 20N	069 34 15W	924	1690	23 Aug 1884
2220	39 43 30N	069 23 00W	1054	1929	23 Aug 1884
2222	39 03 15N	070 50 45W	1537	2811	06 Sep 1884
2226	37 00 00N	071 54 00W	2045	3740	10 Sep 1884
2229	37 38 40N	073 16 30W	1423	2603	11 Sep 1884
2264	37 07 50N	074 34 20W	167	305	18 Oct 1884
2265	37 07 40N	074 35 40W	70	128	18 Oct 1884
2286	35 21 30N	075 25 00W	11	20	19 Oct 1884
2313	32 53 00N	077 53 00W	99	181	05 Jan 1885
2318	24 25 45N	081 46 00W	45	82	15 Jan 1885
2324	23 10 25N	082 20 24W	33	60	17 Jan 1885
2333	23 10 36N	082 19 12W	169	309	19 Jan 1885
2334	23 10 42N	082 18 24W	67	123	19 Jan 1885
2341	23 11 00N	082 19 06W	143	262	19 Jan 1885
2376	29 03 15N	088 16 00W	324	593	11 Feb 1885
2377	29 07 30N	088 08 00W	210	384	11 Feb 1885
2378	29 14 30N	088 09 30W	68	124	11 Feb 1885
2379	28 00 15N	087 42 00W	1467	2683	02 Mar 1885
2395	28 36 15N	086 50 00W	347	635	13 Mar 1885
2396	28 34 00N	086 48 00W	335	613	13 Mar 1885
2401	28 38 30N	085 52 30W	142	260	14 Mar 1885
2406	28 46 00N	084 49 00W	26	48	15 Mar 1885
2415	30 44 00N	079 26 00W	440	805	01 Apr 1885
2416	31 26 00N	079 07 00W	276	505	01 Apr 1885
2417	33 18 30N	077 07 00W	95	174	02 Apr 1885
2418	33 20 00N	077 05 00W	90	165	02 Apr 1885
2420	37 03 20N	074 31 40W	104	190	05 Apr 1885
2422	37 08 30N	074 33 30W	85	155	03 Jun 1885
2433	43 05 00N	050 43 00W	57	104	23 Jun 1885
2494	45 14 30N	059 06 45W	50	91	06 Jul 1885
2530	40 53 30N	066 24 00W	956	1749	14 Jul 1885
2531	40 42 00N	066 33 00W	852	1558	14 Jul 1885
2555	39 53 00N	071 32 00W	136	249	10 Aug 1885
2571	40 09 30N	067 09 00W	1356	2480	01 Sep 1885



Station	Latitude	Longitude	Depth		Date
			(fm)	(m)	
2573	40 34 18N	066 09 00W	1742	3186	02 Sep 1885
2586	39 02 40N	072 40 00W	328	600	20 Sep 1885
2642	25 20 30N	079 58 00W	217	397	09 Apr 1886
2649	23 34 00N	076 33 00W	36	66	12 Apr 1886
2655	27 22 00N	078 07 30W	338	618	02 May 1886
2668	30 58 30N	079 38 30W	294	538	05 May 1886
2681	39 43 00N	070 29 00W	990	1811	16 Jul 1886
2682	39 38 00N	070 22 00W	1004	1836	16 Jul 1886
2685	39 35 00N	071 02 30W	1137	2080	17 Jul 1886
2706	41 28 30N	065 35 30W	1188	2173	27 Aug 1886
2725	36 34 00N	073 48 00W	1374	2513	24 Oct 1886
2751	16 54 00N	063 12 00W	687	1257	28 Nov 1887
2762	23 08 00S	041 34 00W	59	108	30 Dec 1887
2766	36 47 00S	056 23 00W	10.5	19	12 Jan 1888
2771	51 34 00S	068 00 00W	50.5	92	17 Jan 1888
2787	46 47 30S	075 15 00W	61	112	09 Feb 1888
2788	45 35 00S	075 55 00W	1050	1920	11 Feb 1888
2789	42 36 00S	075 28 00W	1342	2455	12 Feb 1888
2797	08 06 30N	078 51 00W	33	60	05 Mar 1888
2807	00 24 00S	089 06 00W	812	1485	04 Apr 1888
2829	22 52 00N	109 55 00W	31	57	01 May 1888
2839	33 08 00N	118 40 00W	414	757	08 May 1888
2842	54 15 00N	166 03 00W	72	132	23 Jul 1888
2845	54 05 00N	164 09 00W	42	77	29 Jul 1888
2846	54 08 00N	162 44 00W	44	80	30 Jul 1888
2847	55 01 00N	160 12 00W	48	88	31 Jul 1888
2850	54 52 00N	159 46 00W	21	38	04 Aug 1888
2851	54 55 00N	159 52 00W	35	64	04 Aug 1888
2856	58 07 00N	151 36 00W	68	124	22 Aug 1888
2858	58 17 00N	148 36 00W	230	421	24 Aug 1888
2859	55 20 00N	136 20 00W	1569	2870	29 Aug 1888
2862	50 49 00N	127 36 30W	238	435	01 Sep 1888
2877	48 33 00N	124 53 00W	59	108	25 Sep 1888
2890	43 46 00N	124 57 00W	277	507	19 Oct 1888
2892	34 15 00N	120 36 00W	284	519	05 Jan 1889
2907	34 24 30N	120 20 00W	44	80	08 Jan 1889
2919	32 17 00N	119 17 00W	984	1800	17 Jan 1889
2925	32 32 30N	117 24 00W	339	620	19 Jan 1889
2928	32 47 30N	118 10 00W	417	763	23 Jan 1889
2936	32 49 00N	117 27 30W	359	657	04 Feb 1889
2943	34 00 30N	119 28 30W	31	57	06 Feb 1889
2951	33 55 30N	119 55 00W	48	88	08 Feb 1889
2958	34 04 00N	120 19 30W	26	48	09 Feb 1889
2964	34 22 45N	119 40 00W	21.5	39	11 Feb 1889
2965	34 21 20N	119 38 30W	27	49	11 Feb 1889
2966	34 20 40N	119 38 50W	30	55	11 Feb 1889
2970	34 20 20N	119 37 30W	29	53	11 Feb 1889
2975	34 01 30N	119 29 00W	36	66	12 Feb 1889
2980	33 49 45N	119 24 30W	603	1103	12 Feb 1889
2992	18 17 30N	114 43 15W	460	841	06 Mar 1889

Station	Latitude	Longitude	Depth		Date
			(fm)	(m)	
2993	18 17 15N	114 44 30W	364	666	06 Mar 1889
2998	24 51 00N	110 39 00W	40	73	16 Mar 1889
3021	30 47 00N	113 13 00W	14	26	24 Mar 1889
3052	44 00 00N	124 57 00W	48	88	08 Jun 1889
3073	47 28 00N	125 15 00W	477	872	28 Jun 1889
3095	42 44 45N	124 38 10W	42	77	12 Sep 1889
3148	37 08 00N	122 28 10W	47	86	15 Mar 1890
3213	54 10 00N	162 57 30W	41	75	21 May 1890
3214	54 13 00N	163 06 00W	38	70	21 May 1890
3215	54 14 40N	163 24 00W	43	79	21 May 1890
3217	54 14 50N	164 06 00W	42	77	22 May 1890
3218	54 15 40N	164 21 00W	41	75	22 May 1890
3219	54 14 00N	164 35 00W	59	108	22 May 1890
3220	54 15 00N	165 06 00W	34	62	22 May 1890
3232	58 31 30N	157 34 15W	10.5	19	02 Jun 1890
3235	58 16 30N	158 13 00W	11	20	07 Jun 1890
3241	58 38 30N	159 33 30W	14	26	08 Jun 1890
3259	54 40 50N	165 05 30W	41	75	24 Jun 1890
3260	54 36 15N	164 52 00W	13	24	24 Jun 1890
3261	54 42 15N	164 49 15W	27	49	24 Jun 1890
3265	55 16 30N	163 52 45W	38	70	25 Jun 1890
3266	55 08 30N	163 30 30W	24	44	25 Jun 1890
3278	56 12 30N	162 13 00W	47	86	28 Jun 1890
3281	56 14 00N	161 41 15W	36	66	28 Jun 1890
3282	56 30 45N	161 50 15W	53	97	29 Jun 1890
3285	56 45 45N	160 42 45W	35	64	17 Jul 1890
3291	56 58 30N	159 11 00W	26	48	18 Jul 1890
3310	53 56 51N	166 28 53W	58	106	15 Aug 1890
3319	53 40 30N	167 30 00W	59	108	18 Aug 1890
3321	53 33 30N	167 15 40W	54	99	18 Aug 1890
3322	53 28 45N	167 23 50W	35	64	18 Aug 1890
3331	54 01 40N	166 48 50W	350	640	21 Aug 1890
3337	53 55 30N	163 26 00W	280	512	27 Aug 1890
3338	54 19 00N	159 40 00W	625	1143	28 Aug 1890
3340	55 26 00N	155 26 00W	695	1271	29 Aug 1890
3342	52 39 30N	132 38 00W	1588	2904	03 Sep 1890
3346	45 30 00N	124 52 00W	786	1437	22 Sep 1890
3347	45 09 35N	124 45 00W	345	631	22 Sep 1890
3350	38 58 10N	123 57 05W	75	137	25 Sep 1890
3353	07 06 15N	080 34 00W	695	1271	23 Feb 1891
3356	07 09 30N	081 08 30W	546	994	23 Feb 1891
3357	06 35 00N	081 44 00W	782	1430	24 Feb 1891
3360	06 17 00N	082 05 00W	1672	3058	24 Feb 1891
3361	06 10 00N	083 06 00W	1471	2690	25 Feb 1891
3362	05 56 00N	085 10 30W	1175	2149	26 Feb 1891
3363	05 43 00N	085 50 00W	978	1789	26 Feb 1891
3365	05 31 00N	086 31 00W	1010	1847	27 Feb 1891
3366	05 30 00N	086 45 00W	1067	1952	27 Feb 1891
3368	05 32 45N	086 54 30W	66	121	28 Feb 1891
3369	05 32 45N	086 55 20W	52	95	28 Feb 1891

Station	Latitude	Longitude	Depth		Date
			(fm)	(m)	
3370	05 36 40N	086 56 50W	134	245	28 Feb 1891
3371	05 26 20N	086 55 00W	770	1408	01 Mar 1891
3374	02 35 00N	083 53 00W	1823	3334	03 Mar 1891
3376	03 09 00N	082 08 00W	1132	2070	04 Mar 1891
3379	03 59 40N	081 35 00W	52	95	05 Mar 1891
3381	04 56 00N	080 52 30W	1772	3241	06 Mar 1891
3382	06 21 00N	080 41 00W	1793	3279	07 Mar 1891
3384	07 31 30N	079 14 00W	458	838	08 Mar 1891
3385	07 32 36N	079 16 00W	286	523	08 Mar 1891
3387	07 40 00N	079 17 50W	127	232	08 Mar 1891
3388	07 06 00N	079 48 00W	1168	2136	09 Mar 1891
3389	07 16 45N	079 56 30W	210	384	09 Mar 1891
3391	07 33 40N	079 43 20W	153	280	09 Mar 1891
3392	07 05 30N	079 40 00W	1270	2323	10 Mar 1891
3393	07 15 00N	079 36 00W	1020	1866	10 Mar 1891
3397	07 33 00N	078 34 20W	85	155	11 Mar 1891
3398	01 07 00N	080 21 00W	1573	2877	23 Mar 1891
3399	01 07 00N	081 04 00W	1740	3182	24 Mar 1891
3400	00 36 00S	086 46 00W	1322	2418	27 Mar 1891
3403	00 58 30S	089 17 00W	384	702	28 Mar 1891
3404	01 03 00S	089 28 00W	385	704	28 Mar 1891
3405	00 57 00S	089 38 00W	53	97	28 Mar 1891
3407	00 04 00S	090 24 30W	885	1619	03 Apr 1891
3411	00 54 00N	091 09 00W	1189	2175	04 Apr 1891
3413	02 34 00N	092 06 00W	1360	2487	05 Apr 1891
3414	10 14 00N	096 28 00W	2232	4082	08 Apr 1891
3415	14 46 00N	098 40 00W	1879	3436	10 Apr 1891
3417	16 32 00N	099 48 00W	493	902	11 Apr 1891
3424	21 15 00N	106 23 00W	676	1236	18 Apr 1891
3425	21 19 00N	106 24 00W	680	1244	18 Apr 1891
3426	21 21 00N	106 25 00W	146	267	18 Apr 1891
3431	23 59 00N	108 40 00W	995	1819	20 Apr 1891
3432	24 22 30N	109 03 20W	1421	2598	20 Apr 1891
3435	26 48 00N	110 45 20W	859	1571	22 Apr 1891
3470	21 08 30N	157 49 00W	343	627	04 Dec 1891
3471	21 10 30N	157 48 30W	337	616	04 Dec 1891
3472	21 12 00N	157 49 00W	295	540	04 Dec 1891
3474	21 12 00N	157 38 30W	375	686	06 Dec 1891
3475	21 08 00N	157 43 00W	351	642	06 Dec 1891
3476	21 09 00N	157 53 00W	298	545	06 Dec 1891
3480	52 06 00N	171 45 00W	283	518	08 Jul 1893
3603	55 23 00N	170 31 00W	1771	3239	11 Aug 1895
3644	51 09 00N	157 48 00E	96	176	20 Aug 1896
3666	36 45 00N	121 53 00W	68	124	13 Apr 1897
3684	00 50 00N	137 54 00W	2463	4505	10 Sep 1899
3788	43 01 00N	125 12 30W	1064	1946	27 Apr 1901
3824	21 01 25N	157 15 15W	222-498	406-910	01 Apr 1902
3828	20 58 40N	157 10 30W	281-319	514-583	01 Apr 1902
3834	21 05 00N	157 01 40W	8	15	02 Apr 1902
3835	21 00 10N	157 05 50W	169-182	309-333	03 Apr 1902



Station	Latitude	Longitude	Depth		Date
			(fm)	(m)	
3836	21 00 05N	157 08 20W	238-255	435-466	03 Apr 1902
3849	20 59 00N	156 57 10W	43-73	79-133	08 Apr 1902
3850	21 00 10N	156 56 30W	43-66	79-121	08 Apr 1902
3857	21 01 00N	156 48 25W	127-128	232-234	09 Apr 1902
3859	21 02 40N	156 44 20W	138-140	252-256	09 Apr 1902
3861	21 00 50N	156 40 35W	30-52	55-95	10 Apr 1902
3863	21 05 45N	156 40 50W	108-127	232-282	10 Apr 1902
3865	21 09 20N	156 35 10W	256-283	468-518	10 Apr 1902
3866	21 10 40N	156 34 50W	283-284	518-519	10 Apr 1902
3867	21 11 55N	156 33 40W	284-290	519-530	10 Apr 1902
3872	20 51 40N	156 43 20W	32-43	59-79	12 Apr 1902
3874	20 51 00N	156 49 00W	21-28	38-51	12 Apr 1902
3875	20 54 45N	156 46 10W	34-65	62-119	12 Apr 1902
3876	20 51 35N	156 42 35W	28-43	51-79	14 Apr 1902
3883	21 09 15N	156 34 15W	277-284	507-519	16 Apr 1902
3884	21 10 20N	156 32 50W	284-290	519-530	16 Apr 1902
3885	21 05 10N	156 40 45W	136-148	249-271	17 Apr 1902
3887	21 16 30N	156 39 55W	552-809	1010-1479	17 Apr 1902
3892	21 14 45N	157 05 05W	328-414	599-757	18 Apr 1902
3935	25 51 37N	171 47 45W	57-79	104-126	16 May 1902
3937	25 52 05N	171 46 47W	130-148	238-271	16 May 1902
3938	25 52 17N	171 46 35W	148-163	271-298	16 May 1902
3940	25 51 23N	171 47 05W	59-70	108-128	16 May 1902
3957	25 52 35N	171 46 50W	173-220	293-402	22 May 1902
3982	21 56 25N	159 21 40W	40-233	73-426	10 Jun 1902
3987	22 05 20N	159 19 25W	50-55	91-100	11 Jun 1902
3992	22 15 50N	159 29 55W	528	966	12 Jun 1902
3995	22 17 50N	159 38 45W	427-676	773-1236	13 Jun 1902
3997	21 54 35N	159 46 00W	418-429	765-785	14 Jun 1902
3998	21 56 25N	159 48 35W	228-235	417-430	14 Jun 1902
4007	21 50 20N	159 31 40W	508-557	929-1019	17 Jun 1902
4021	22 07 35N	159 18 00W	286-399	523-730	21 Jun 1902
4022	22 08 15N	159 17 25W	374-399	684-730	21 Jun 1902
4023	22 13 25N	159 33 35W	18-41	33-75	23 Jun 1902
4024	22 14 40N	159 35 15W	24-43	44-79	23 Jun 1902
4028	21 54 35N	159 49 35W	444-478	812-874	24 Jun 1902
4041	20 06 10N	155 59 40W	253-382	463-699	11 Jul 1902
4044	20 03 15N	155 55 20W	198-233	362-426	11 Jul 1902
4045	20 01 45N	155 54 15W	147-198	269-362	11 Jul 1902
4046	20 00 30N	155 52 45W	71-147	130-269	11 Jul 1902
4055	19 48 00N	155 03 50W	50-62	91-113	16 Jul 1902
4064	20 17 00N	155 53 10W	63-107	115-196	18 Jul 1902
4066	20 36 35N	156 05 10W	49-176	90-322	18 Jul 1902
4077	21 01 00N	156 24 15W	99-106	181-194	21 Jul 1902
4079	21 01 40N	156 22 50W	143-178	262-326	21 Jul 1902
4080	21 02 50N	156 22 20W	178-202	326-369	21 Jul 1902
4081	21 03 55N	156 22 05W	202-220	369-402	21 Jul 1902
4082	21 04 35N	156 21 10W	220-238	402-435	21 Jul 1902
4083	21 05 25N	156 20 20W	238-253	435-463	21 Jul 1902
4084	21 06 40N	156 20 15W	253-267	463-488	21 Jul 1902

Station	Latitude	Longitude	Depth		Date
			(fm)	(m)	
4085	21 07 30N	156 20 00W	267-283	488-518	21 Jul 1902
4086	21 08 20N	156 19 40W	283-308	518-563	21 Jul 1902
4087	21 09 25N	156 20 30W	306-308	560-563	21 Jul 1902
4088	21 11 00N	156 21 35W	297-306	543-560	21 Jul 1902
4089	21 12 50N	156 21 40W	297-304	543-556	21 Jul 1902
4090	21 14 25N	156 21 45W	304-308	556-563	22 Jul 1902
4095	21 14 30N	156 29 45W	286-290	523-530	22 Jul 1902
4096	21 09 30N	156 35 05W	272-286	497-523	22 Jul 1902
4098	21 00 40N	156 24 50W	95-152	174-278	23 Jul 1902
4100	21 05 30N	156 40 30W	130-151	238-276	23 Jul 1902
4101	21 03 10N	156 43 15W	122-143	223-262	23 Jul 1902
4102	21 03 10N	156 45 20W	122-132	223-241	23 Jul 1902
4112	21 22 35N	157 24 40W	433-447	792-818	24 Jul 1902
4114	21 40 10N	158 08 45W	154-195	282-357	25 Jul 1902
4115	21 41 50N	158 08 50W	195-241	357-441	25 Jul 1902
4116	21 43 30N	158 09 00W	241-282	441-516	25 Jul 1902
4123	21 15 00N	158 08 00W	352-357	644-653	26 Jul 1902
4128	21 57 25N	159 16 05W	68-253	124-463	01 Aug 1902
4131	21 59 35N	159 20 40W	257-309	470-565	01 Aug 1902
4134	22 03 35N	159 19 40W	225-324	412-593	01 Aug 1902
4139	22 02 10N	159 18 15W	339-512	620-936	02 Aug 1902
4141	22 03 35N	159 18 10W	437-632	799-1156	02 Aug 1902
4181	21 55 40N	159 17 05W	671-811	1227-1483	13 Aug 1902
4186	22 03 55N	159 17 20W	508-682	929-1247	13 Aug 1902
4387	32 32 40N	118 04 20W	1059	1937	22 Mar 1904
4397	33 10 15N	121 42 15W	2196-2228	4016-4075	01 Apr 1904
4398	32 43 20N	117 42 10W	620	1134	07 Apr 1904
4400	32 50 20N	118 03 30W	500-507	915-927	08 Apr 1904
4647	04 33 - S	087 42 30W	2005	3667	09 Nov 1904
4649	05 17 - S	085 20 - W	2235	4088	10 Nov 1904
4651	05 42 - S	083 00 - W	2222	4064	11 Nov 1904
4653	05 47 - S	081 24 - W	536	980	12 Nov 1904
4656	06 55 - S	083 34 - W	2222	4064	13 Nov 1904
4658	08 30 - S	085 36 - W	2370	4335	14 Nov 1904
4670	12 09 - S	079 02 30W	3209	5869	20 Nov 1904
4672	13 11 30S	078 18 - W	2845	5204	21 Nov 1904
4701	19 11 30S	102 24 - W	2265	4143	26 Dec 1904
4717	05 11 - S	098 56 - W	2153	3938	13 Jan 1905
4740	09 02 - S	123 20 - W	2422	4430	11 Feb 1905
4742	00 04 00S	117 07 00W	2320	4243	15 Feb 1905
4765	53 12 - N	171 37 - W	1217	2226	29 May 1906
4767	54 12 - N	179 07 - E	771	1410	03 Jun 1906
4770	54 31 - N	179 15 - E	247	452	03 Jun 1906
4772	54 30 30N	179 14 - E	344-372	629-680	04 Jun 1906
4777	52 11 - N	179 49 - E	43-52	79-95	05 Jun 1906
4779	52 11 - N	179 57 - W	54-56	99-102	05 Jun 1906
4784	52 55 40N	173 26 - E	135	247	11 Jun 1906
4792	54 36 15N	166 57 15E	72	132	14 Jun 1906
4795	52 46 50N	158 44 30E	48-69	88-126	20 Jun 1906
4796	52 47 - N	158 43 - E	48	89	20 Jun 1906

Station	Latitude	Longitude	Depth		Date
			(fm)	(m)	
4803	46 42 - N	151 45 - E	229	419	24 Jun 1906
4804	46 42 - N	151 47 - E	229	419	24 Jun 1906
4818	38 08 55N	138 31 30E	225-245	412-448	19 Jul 1906
4867	06 31 - N	129 46 - E	150	274	01 Aug 1906
4871	36 29 30N	129 43 30E	60	110	01 Aug 1906
5049	38 12 - N	142 02 - E	182	333	10 Oct 1906
5112	13 48 22N	120 47 25E	177	324	17 Jan 1908
5113	13 51 30N	120 50 30E	159	291	17 Jan 1908
5114	13 36 11N	120 45 26E	340	622	20 Jan 1908
5115	13 37 11N	120 43 40E	340	622	20 Jan 1908
5116	13 41 -N	120 47 05E	200	366	20 Jan 1908
5121	13 27 20N	121 17 45E	108	198	02 Feb 1908
5123	13 12 45N	121 38 45E	283	518	02 Feb 1908
5134	06 44 45N	121 48 - E	25	46	07 Feb 1908
5135	06 11 50N	121 08 20E	161	294	07 Feb 1908
5146	05 46 40N	120 48 50E	24	44	16 Feb 1908
5149	05 33 - N	120 42 10E	10	18	18 Feb 1908
5152	05 22 55N	120 15 45E	34	62	18 Feb 1908
5157	05 12 30N	119 55 50E	18	33	21 Feb 1908
5160	05 12 40N	119 55 10E	10	22	22 Feb 1908
5165	04 58 20N	119 50 30E	9	16	24 Feb 1908
5166	04 56 10N	119 46 - E	97	177	24 Feb 1908
5174	06 03 45N	120 57 - E	20	37	05 Mar 1908
5178	12 43 - N	122 06 15E	73-78	134-143	25 Mar 1908
5181	11 36 40N	123 26 35E	26	48	27 Mar 1908
5182	11 30 40N	123 23 20E	24	44	27 Mar 1908
5201	10 10 - N	125 04 15E	554	1013	10 Apr 1908
5212	12 04 15N	124 04 36E	108	198	20 Apr 1908
5216	12 52 - N	123 23 30E	215	393	22 Apr 1908
5217	13 20 - N	123 14 15E	105	192	22 Apr 1908
5258	10 27 45N	122 12 30E	n.r.	n.r.	02 Jun 1908
5272	14 - - N	120 22 30E	118	216	14 Jul 1908
5273	13 58 45N	120 21 35E	114	208	14 Jul 1908
5279	13 57 30N	120 22 15E	117	214	17 Jul 1908
5280	13 55 20N	120 25 55E	193	353	17 Jul 1908
5281	13 52 45N	120 25 - E	201	368	18 Jul 1908
5289	13 41 50N	120 58 30E	172	315	22 Jul 1908
5290	13 40 09N	120 59 30E	214	391	22 Jul 1908
5297	13 41 20N	120 58 - E	198	362	24 Jul 1908
5301	20 37 - N	115 43 - E	208	380	08 Aug 1908
5310	21 33 - N	116 13 - E	100	183	04 Nov 1908
5326	18 32 30N	122 01 - E	230	421	12 Nov 1908
5332	12 47 15N	120 41 - E	745	1363	12 Dec 1908
5348	10 57 45N	118 38 15E	375	686	27 Dec 1908
5349	10 54 - N	118 26 20E	730	1335	27 Dec 1908
5365	13 44 24N	120 45 30E	214	391	22 Feb 1909
5391	12 13 15N	124 05 03E	118	216	13 Mar 1909
5393	12 03 30N	124 03 36E	136	249	13 Mar 1909
5409	10 38 - N	124 13 08E	189	346	18 Mar 1909
5412	10 09 15N	123 52 - E	162	296	23 Mar 1909
5417	10 10 - N	123 53 15E	165	302	25 Mar 1909



Station	Latitude	Longitude	Depth		Date
			(fm)	(m)	
5420	09 49 35N	123 45 - E	127	232	25 Mar 1909
5423	09 38 30N	121 11 - E	508	929	31 Mar 1909
5424	09 37 05N	121 12 37 E	340	622	31 Mar 1909
5425	09 37 45N	121 11 - E	495	905	31 Mar 1909
5428	09 13 - N	118 51 15E	1105	2021	03 Apr 1909
5440	16 33 52N	119 52 54E	172	315	10 May 1909
5453	13 12 - N	123 49 18E	146	267	07 Jun 1909
5467	13 35 27N	123 37 18E	480	878	18 Jun 1909
5468	13 35 39N	123 40 28E	569	1041	18 Jun 1909
5476	12 56 24N	124 25 24E	270	494	24 Jun 1909
5481	10 27 30N	125 17 10E	61	112	30 Jul 1909
5482	10 27 30N	125 18 - E	67	123	30 Jul 1909
5483	10 27 30N	125 19 15E	74	135	30 Jul 1909
5491	09 24 - N	125 12 - E	736	1346	01 Aug 1909
5512	08 16 02N	123 58 26E	445	814	07 Aug 1909
5513	08 16 45N	124 02 48E	505	924	07 Aug 1909
5516	08 46 - N	123 32 30E	175	320	09 Aug 1909
5518	08 48 - N	123 31 - E	200	366	09 Aug 1909
5520	08 41 15N	123 18 30E	102	187	10 Aug 1909
5523	08 48 44N	123 27 35E	n.r.	n.r.	10 Aug 1909
5526	09 12 45N	123 45 30E	805	1472	11 Aug 1909
5528	09 24 45N	123 39 15E	439	803	11 Aug 1909
5536	09 15 45N	123 22 00E	279	510	19 Aug 1909
5543	08 47 15N	123 35 00E	162	296	20 Aug 1909
5550	06 02 00N	120 44 40E	258	472	17 Sep 1909
5587	04 10 35N	118 37 12E	415	759	28 Sep 1909
5605	00 21 33N	121 34 10E	647	1183	16 Nov 1909
5606	00 16 28N	121 33 30E	834	1525	17 Nov 1909
5609	00 11 00S	121 16 00E	1092	1997	18 Nov 1909
5617	00 49 30N	127 25 30E	131	240	27 Nov 1909
5618	00 37 00N	127 15 00E	417	763	27 Nov 1909
5621	00 15 00N	127 24 35E	298	545	28 Nov 1909
5622	00 19 20N	127 28 30E	275	503	29 Nov 1909
5623	00 16 30N	127 30 00E	272	497	29 Nov 1909
5624	00 12 15N	127 29 30E	288	527	29 Nov 1909
5626	00 07 30N	127 29 00E	265	485	29 Nov 1909
5630	00 56 30S	128 05 00E	569	1041	02 Dec 1909
5632	01 00 00S	127 50 00E	845	1546	02 Dec 1909
5637	03 53 20S	126 48 00E	700	1280	10 Dec 1909
5640	04 27 00S	122 55 40E	24	44	13 Dec 1909
5645	05 29 06S	122 36 06E	206	377	16 Dec 1909
5648	05 35 00S	122 20 00E	559	1022	16 Dec 1909
5651	04 43 50S	121 23 24E	700	1280	17 Dec 1909
5654	03 42 00S	120 45 50E	805	1472	18 Dec 1909
5655	03 34 10S	120 50 30E	608	1112	18 Dec 1909
5656	03 17 40S	120 36 45E	484	885	19 Dec 1909
5660	05 36 30S	120 49 00E	692	1266	20 Dec 1909
5664	04 43 22S	118 53 18E	400	732	28 Dec 1909
5668	02 28 15S	118 49 00W	901	1648	29 Dec 1909
5675	27 07 08N	114 33 10W	284	519	15 Mar 1911
5694	33 24 36N	120 12 30W	640	1171	26 Apr 1911

Station	Latitude	Longitude	Depth		Date
			(fm)	(m)	
<i>R/V Anton Bruun</i>					
International Indian Ocean Expedition					
401C	19 51 - S	036 21 - E		62	04 Oct 1964
403E	19 09 - S	036 55 - E		88	09 Oct 1964
444	09 36 - N	051 01 - E		78-82	16 Dec 1964
<i>R/V Atlantis</i>					
8	47 10 - N	036 00 - W	2300	4207	02 Aug 1948
15	35 37 - N	030 51 30W		3200	16 Aug 1947
<i>R/V Caroline - Johnson-Smithsonian Deep-Sea Expedition</i>					
47	18 17 20N	067 25 - W	280-340	512-622	13 Feb 1933
<i>H.M.S. Challenger</i>					
150	52 04 - S	071 22 - E	150	274	02 Feb 1874
<i>R.R.S. Discovery</i>					
160	53 43 40S	040 57 00W		177	07 Feb 1927
170	61 25 30S	053 46 00W		342	23 Feb 1927
175	63 17 20S	059 48 15W		200	02 Mar 1927
272	13 11 - S	012 44 45E			
	13 09 45S	012 46 - E		73-91	30 Jul 1927
<i>U.S.F.C.S. Fish Hawk</i>					
865	40 05 - N	070 23 - W	65	119	04 Sep 1880
866	40 05 18N	070 22 18W	65	119	04 Sep 1880
867	40 05 42N	070 22 06N	64	117	04 Sep 1880
868	40 01 42N	070 22 30W	162	236	04 Sep 1880
869	40 02 18N	070 23 06W	192	351	04 Sep 1880
871	40 02 54N	070 23 40W	115	210	04 Sep 1880
872	40 05 39N	070 23 52W	86	157	04 Sep 1880
873	40 02 - N	070 57 - W	100	183	13 Sep 1880
874	40 00 00N	070 57 00W	85	155	13 Sep 1880
875	39 57 00N	070 57 30W	126	231	13 Sep 1880
876	39 57 00N	070 56 00W	120	219	13 Sep 1880
877	39 56 00N	070 54 18W	126	231	13 Sep 1880
879	39 49 30N	070 54 00W	225	410	13 Sep 1880
880	39 48 30N	070 54 00W	252.5	462	13 Sep 1880
881	39 46 30N	070 54 00W	325	534	13 Sep 1880
891	39 46 00N	071 10 00W	480	878	02 Oct 1880
892	39 46 00N	071 05 00W	487	891	02 Oct 1880
893	39 52 20N	070 58 00W	372	680	02 Oct 1880
894	39 53 00N	070 58 30W	365	668	02 Oct 1880
899	37 22 00N	074 29 00W	57.5	105	16 Nov 1880
900	37 19 00N	074 41 00W	31	57	16 Nov 1880
923	40 01 24N	070 46 00W	98	179	16 Jul 1881
940	39 54 00N	069 51 30W	134	245	04 Aug 1881
949	40 03 00N	070 31 00W	100	183	23 Aug 1881
950	40 07 00N	070 32 00W	71	130	23 Aug 1881
952	39 55 00N	070 28 00W	396	724	23 Aug 1881

Station	Latitude	Longitude	Depth		Date
			(fm)	(m)	
984	41 31 - N	069 28 - W	33	60	30 Aug 1881
994	39 40 - N	071 30 - W	368	673	08 Sep 1881
1043	38 39 - N	073 11 - W	130	238	10 Oct 1881
1046	38 33 - N	073 18 - W	104	190	10 Oct 1881
1092	39 58 - N	069 42 - W	202	369	11 Aug 1882
1097	39 54 - N	069 44 - W	158	289	11 Aug 1882
1098	39 53 - N	069 43 - W	156	285	11 Aug 1882
1108	40 02 - N	070 37 30W	101	185	22 Aug 1882
1109	40 03 - N	070 38 - W	89	163	22 Aug 1882
1117	40 02 - N	070 45 - W	89	163	22 Aug 1882
1124	40 01 - N	068 54 - W	640	1170	26 Aug 1882
<i>R/V Galathea</i>					
Danish Deep-Sea Expedition 1950-52					
658	35 51 - S	178 31 - W		6660-6720	20 Feb 1952
<i>R/V Gerda</i>					
182	27 55 - N	078 40 - W		860-897	02 Jul 1963
311	25 41 - N	079 31 - W		787-805	24 May 1964
354	25 39 - N	079 32 - W		805-830	24 Aug 1964
448	23 54 - N	082 21 - W		1135-1184	01 Dec 1964
830	25 40 - N	079 59 - W		342	07 Jul 1967
899	20 57 - N	086 34 - W		40-165	10 Sep 1967
918	26 03 - N	078 05 - W		805-823	26 Sep 1967
<i>R/V Gilliss</i>					
87	36 44 30N	073 45 54W		2620-2625	19 Nov 1974
Gloucester Fisheries					
327	44 32 - N	057 09 - W	220	403	-- 1879
365	45 25 - N	057 10 - W	170	311	-- 1879
382	47 06 - N	058 15 - W	150	274	-- 1879
<i>R/V Hernan Cortez - Hourglass Cruise - FDNR</i>					
D	27 37 - N	083 58 - W		55	28 Feb 1967
H.E.M.S. <i>Mabahiss</i> - John Murray Expedition					
153	04 45 36N	072 52 12E		256-293	04 Apr 1934
<i>M/V, R/V Oregon I</i>					
382	29 11 30N	088 07 30W	190-210	348-384	21 Jun 1951
2245	08 15 - N	058 17 - W	39-50	71-91	31 Aug 1958
2249	07 40 - N	057 34 - W	27-30	49-55	31 Aug 1958
2250	07 38 - N	057 34 - W	26-27	47-49	31 Aug 1958
2574	26 34 - N	089 53 - W	1450	2652	28 Jul 1959
2643	18 03 - N	067 29 - W	180	329	05 Oct 1959
2780	11 36 - N	062 52 - W	215-230	393-421	20 Apr 1960
3583	09 16 - N	081 37 - W	280	512	25 May 1962
4166	07 34 - N	057 26 - W	26	48	18 Feb 1963
4179	06 46 - N	054 44 - W	25	46	20 Feb 1963



Station	Latitude	Longitude	Depth		Date
			(fm)	(m)	
4190	05 48 - N	052 53 - W	24	44	22 Feb 1963
4928	14 05 - N	081 21 - W	100	183	08 Jun 1964
5894	29 08 30N	080 38 - W	13-14	24-26	19 Jan 1966
5923	15 36 - N	061 15 - W	40	73	03 Mar 1966
5929	15 39 - N	061 10 - W	355	649	05 Mar 1966
5970	11 13 - N	060 52 - W	34	62	14 Mar 1966
6715	18 36 - N	063 27 - W	110-130	201-238	30 May 1967

*M/V, R/V Oregon II*

10513	08 26 - N	058 11 - W	100	183	27 Apr 1969
10602	07 46 - N	054 35 - W	299	547	10 May 1969
10794	07 50 - N	054 15 - W	389	711	15 Nov 1969
10849	20 50 - N	073 23 - W	170	311	13 Dec 1969
10850	20 49 - N	073 26 - W	170	311	13 Dec 1969
10858	22 59 - N	078 43 - W	152	278	15 Dec 1969
11231	08 56 - N	076 53 - W	340	622	02 Nov 1970

*R/V Pillsbury*

63	04 35 - N	006 40 - W		64	02 Jun 1964
76	04 32 - N	009 42 - W		1464-1556	04 Jun 1964
266	01 13 - N	007 46 - E		2525	17 May 1965
574	16 16 - N	082 26 30W		37	20 May 1967
616	16 01 - N	088 43 - W		13	19 Mar 1968
617	15 47 12N	088 12 36W		106-119	19 Mar 1968
624	15 59 30N	086 05 30W		35-48	21 Mar 1968
625	15 59 30N	086 02 30W		27-37	21 Mar 1968
626	15 57 36N	086 09 - W		35-40	21 Mar 1968
627	15 56 30N	086 14 00W		46	21 Mar 1968
629	15 58 12N	086 09 00W		40	21 Mar 1968
669	06 39 - N	055 15 - W		33	10 Jul 1968
686	07 00 - N	057 08 - W		26-27	15 Jul 1968
687	07 13 - N	057 36 - W		27	15 Jul 1968
689	08 14 00N	057 38 - W		1373-1446	15 Jul 1968
695	08 12 - N	058 33 - W		37	15 Jul 1968
696	08 38 - N	058 56 - W		55-59	16 Jul 1968
699	09 30 - N	060 15 - W		64	16 Jul 1968
709	11 08 48N	062 46 06W		46	19 Jul 1968
721	11 06 30N	064 22 30W		26-27	21 Jul 1968
727	10 20 - N	065 02 - W		64	21 Jul 1968
728	10 22 30N	065 23 - W		86	21 Jul 1968
749	10 37 00N	067 57 54W		59	25 Jul 1968
750	10 36 06N	068 12 12W		22-26	25 Jul 1968
767	12 16 06N	071 03 18W		24-26	28 Jul 1968
773	12 17 00N	072 15 00W		60-64	29 Jul 1968
792	10 50 - N	075 22 - W		11-13	01 Aug 1968
835	09 36 - N	060 10 - W		48	30 Jun 1969
1187	18 17 - N	075 07 - W		1033	02 Jul 1970
1219	17 41 - N	077 21 - W		13-16	06 Jul 1970
1311	09 12 48N	081 47 - W		46-47	26 Jan 1971
1327	11 09 - N	083 41 - W		37	27 Jan 1971
1331	11 51 12N	083 35 18W		20	28 Jan 1971

Station	Latitude	Longitude	Depth		Date
			(fm)	(m)	
1335	12 28 54N	083 04 48W		27	28 Jan 1971
1336	12 42 00N	082 47 - W		38-46	29 Jan 1971
1363	15 43 24N	083 29 00W		29	01 Feb 1971
1365	16 00 30N	084 19 30W		38	01 Feb 1971
1369	16 07 00N	085 38 - W		55-57	02 Feb 1971
<i>U.S. Steamer Speedwell</i>					
85	44 04 - N	063 27 - W	101	185	06 Sep 1877
86	44 04 - N	063 27 - W	101	185	06 Sep 1877
264	42 10 - N	69 56 30W	80	146	29 Jul 1879
<i>R/V Velero III - Allan Hancock Pacific Expedition</i>					
310-35	00 20 - N	090 30 - W	15	27	03 Dec 1934
<i>R.S.S. William Scoresby</i>					
85	52 09 - S	058 14 - W		79	25 Mar 1927
86	53 53 30S	060 34 30W		151	03 Apr 1927
821	52 55 45S	060 55 - W		351-367	18 Jan 1932

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