

# UC San Diego

## SIO Reference

### Title

Catalog of the benthic invertebrate collections of the Scripps Institution of Oceanography.  
Coelenterata

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CATALOG OF THE  
BENTHIC INVERTEBRATE COLLECTIONS  
OF THE  
SCRIPPS INSTITUTION OF OCEANOGRAPHY

# COELENTERATA

Spencer R. Luke

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## PREFACE

This is the fifth in a series of catalogs\* of holdings of the Benthic Invertebrate Collection of the Scripps Institution of Oceanography. While the collections date back to the earliest days of the Institution, they have expanded markedly during the past few decades through gifts or donations from private and government sources as well as through the efforts of members of the institution. Use of the collections has also increased greatly, especially by scientist outside the institution, in good part because the scientific community at large has been informed of the holdings of the Benthic Invertebrate Collection by this series of catalogs.

The present catalog, containing XXXX entries, covers the marine Porifera. The arrangement is systematic and each entry includes a catalog number and relevant field data. These data are maintained on a commercial database software; Microsoft Access 97®. The database may be examined here or floppy disks may be requested.

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Higher taxonomic categories used are as in R. C. Moore (1956 , "Introduction," p. F2. In Raymond C. Moore, Ed., Treatise on Invertebrate Paleontology, Pt. F, The University of Kansas Press and The Geological Society of America, Lawrence, Kansas

Many of the determinations of species were done by researchers considered more knowledgeable than the present author. No attempt was made to update genera used by the original researcher.

I thank W. A. Newman, Curator of the Benthic Invertebrates, for relentless encouragement and Fredrick Hochberg of the Santa Barbara Museum of Natural History for determining the many of the species of and suggestions as to format.

Spencer R. Luke  
Senior Museum Scientist

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\*Crustacea Part I Decapoda and Stomatopoda, SIO Reference Series, SIO Reference No. 77-9, October 1977, 72pp.

Brachiopoda, SIO Reference Series, SIO Reference No. 78-19, July 1978, 4pp.

Echinodermata, SIO Reference Series, SIO Reference No. 82-5, June 1982, 66pp.

Mollusca, SIO Reference Series, SIO Reference No. 95-24, October 1995, 167pp.

Porifera, SIO Reference Series, SIO Reference No 98-06, June 1998, 31pp.



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# HYDROZOA

## HYDROIDA

### BOUGAINVILLIIDAE

#### *Bimeria gracilis* Clark 1876

Co 316 SIOM59-61-9. Point Loma, San Diego, California. With compound ascidian on clam. June 27, 1921.

#### *Bougainvillia* sp.

Co 310 SIOM59-61-4. Coronado Boat House, Coronado, California. July 5, 1903.

#### *Garveia annulata* (Nutting)

Co 58 La Jolla, California. December 12, 1967 Coll. E.W. Fager, A.O. Flechsig.

### HYDRACTINIDAE

Co 385 SIO65-502 C-4. Off Salina Cruz, Golfo de Tehuantepec, Mexico. 16°2.5'N 95°7.5'W 31-35m 12' Try net. July 8, 1963 2100-2118 Coll. D. Dockins.

Co 386 MV73-I-8. N.E. of Isla Maria Madre, Islas Tres Marias, Mexico. 21°56.1'N 106°10.5'W 55m 40' otter trawl. Flat sand. March 31, 1973 1830-1910. R/V Agassiz. Coll. C. Hubbs, S. Luke.

Co 387 MV73-I-9. N.E. of Isla Maria Madre, Islas Tres Marias, Mexico. 21°56.4'N 106°10.6'W 51m 40' otter trawl. Sand. March 31, 1973 2022-2102. R/V Agassiz. Coll. C. Hubbs, S. Luke.

Co 388 MV73-I-95. East of Punta Judas, Costa Rica. 9°28'N 84°23'W 26-24m 25' otter trawl. April 22, 1973 1807-1838. R/V Agassiz. Coll. C. Hubbs, S. Luke.

Co 389 MV73-I-39. West of Puerto Madero, Chiapas, Mexico. 14°43'N 92°55.5'W 55m 40' otter trawl. April 10, 1973 1846-1937. R/V Agassiz. Coll. C. Hubbs, S. Luke.

Co 471 MV72-II. Off Mejillones Bay, Chile. 22°50'S 70°30'W 5m Fish nets. Purchased from Chilean fishing boat. April 27, 1972 R/V T. Washington.

#### *Hydractina* sp.

Co 371 MV73-I-66. West of Punta Amalpa, Golfo de Fonseca, El Salvador. 13°6.7'N 88°5.5'W 18m 40' otter trawl. April 17, 1973 1122-1153. R/V Agassiz. Coll. C. Hubbs, S. Luke.

Co 444 El Golfo II BT-156. Off Punta San Telmo, Michoacan, Mexico. 18°27.3'N 103°36'W 30-33m 20' otter trawl. June 3, 1965 1618-1700. Coll. T. Matsui.

#### *Hydractina californica* Torrey

Co 307 SIOM59-61-16. Off San Diego, California. 91m July 18, 1903.

#### *Janaria mirabilis* Stechow

Co 1197 SIO62-225. E. side of Punta Que Malo, Bahia de Los Angeles, Baja Calif. Norte, Mexico. 28°58'N 113°27.7'W 5-11m Chemfish. Boulders to sand. April 23, 1962 1015-1200. Coll. C. Hubbs, R. Roseblatt.

### cf. ATRACTYLIDAE

Co 379 1.5 km. South of San Felipe, Baja California Norte, Mexico. March 26, 1968 Coll. F. Rokop.

### ATRACYLIDAE

Co 372 ECCE PA-3. W. side of Bahia La Baliza, Punta Abreojos, Baja Calif. Sur, Mexico. 26°44'N 113°35'W -Rotenone, crow bar. Upper mid intertidal sandstone. July 24, 1975 0530-0700. Coll. S. Luke.

### TUBULARIIDAE

#### *Corymorpha palma* Torrey 1902

Co 54 La Jolla Shores, La Jolla, California. SCUBA. April 1966 Coll. J. Stewart.

#### *Tubularia crocea* (Agassiz 1862)

Co 299 300 m. off end of Scripps Pier. Small trawl. April 29, 1917.

Co 971 H-1. San Onofre, California. 5-20m November 30, 1971 Coll. J.A. Haugness.

## PENNARIIDAE

- Co 378 MV73-I-1. End of municipal pier, La Paz, Baja Calif. Norte, Mexico. 24°11.5'N 110°18.1'W -Break off clumps of sponges. Intertidal on pier pilings. March 29, 1973 1300. R/V Agassiz. Coll. C. Hubbs, S. Luke.

## CORYNIDAE

*Syncoryne mirabilis* (Agassiz 1862)

- Co 350 SIOM59-56-1. Friday Harbor, Washington. Sta. float. July 27, 1921 Coll. Johnson & Snook.

## EUDENDRIIDAE

- Co 363 ECCE PA-3. W. side of Bahia La Baliza, Punta Abreojos, Baja Calif. Sur, Mexico. 26°44'N 113°35'W -Rotenone, crow bar. Upper mid intertidal sandstone. July 24, 1975 0530-0700. Coll. S. Luke.
- Co 366 ECCE PA-11. W. side of Bahia La Baliza, Punta Abreojos, Baja Calif. Sur, Mexico. 26°44'N 113°35'W - Deep tide pools. Rocky conglomerate MLLW intertidal. July 25, 1975 1600-1700. Coll. S. Luke.

*Eudendrium californicum* (Torrey)

- Co 56 #324. Off Scripps Inst. of Ocean., La Jolla, California. From roots of floating kelp. Coll. Wallace.
- Co 311 SIOM59-34-5. Pacific Grove, California. February 1921 Coll. Wallace.

*Eudendrium ramosum* (Linnaeus 1758)

- Co 49 Dike Rock, North of Scripps Inst., La Jolla, California. Intertidal. January 1968 Coll. F. Rokop.

## CLADOCORYNIDAE

*Cladocoryne* sp.

- Co 977 H-7. Catalina Island, California. 5-20m December 10, 1979 Coll. J.A. Haugness.

## CAMPANULARIIDAE

- Co 33 Mission bay, San Diego, California. Off marina pilings. April 5, 1969 Coll. R. Kiwala, T. Cukr.

*Clytia* sp.

- Co 393 ECCE LM-26. Laguna Manuela Point, Baja Calif. Norte, Mexico. 28°13.5'N 114°11'W -. Rocky intertidal. August 4, 1975 Coll. S. Luke.
- Co 395 ECCE LM-27. Puerto Santo Domingo, Laguna Manuela, Baja Calif. Norte, Mexico. 28°14'N 114°8.5'W -Shovel & seive screen. Intertidal. High saline lagoon. Mud to coarse sand. August 4, 1975 1430-1630. Coll. S. Luke.
- Co 396 ECCE LM-28. Puerto Santo Domingo, Laguna Manuela, Baja Calif. Norte, Mexico. 28°14'N 114°8.5'W -Shovel & seive screen. High to mid-intertidal. Sand beach. Open coast. August 4, 1975 1100-1200. Coll. S. Luke.

*Clytia bakeri* Torrey 1904

- Co 32 Campo La Jolla, Punta Banda, Bahia Todos Santos, Baja California Norte, Mex. On beach. On *Donax gouldii*. April 29, 1968 Coll. T. Cukr.
- Co 36 Haul 3187. Scripps Inst. Beach, La Jolla, California. On *Donax gouldii*. November 1, 1913 Coll. Marvin.

*Clytia edwardsii* (Nutting 1901)

- Co 34 SIOM59-61-2. Balast Point, San Diego, California. June 29, 1903.

*Eucopeella* sp.

- Co 21 La Jolla, California. Tidepools. February 1968 Coll. F. Rokop.

*Eucopeella everta* (Clark 1876)

- Co 6 SIOM59-61-18. La Jolla, California. June 23, 1905.
- Co 37 La Jolla, California. Growing on leaves of *Macrocystis*. February 6, 1914.

*Obelia* sp.

- Co 45 Boat docks, Shelter Island, San Diego Bay, San Diego, California. January 1968 Coll. F. Rokop.

*Obelia commissuralis* McCrady

- Co 374 Off Scripps Inst., La Jolla, California. 10m Artificial habitat on sand flats. February 27, 1969 Coll. A. Flechsig.

*Obelia dichotoma* (Linnaeus 1758)

- Co 25 Mission Bay, San Diego, California. January 1968 Coll. F. Rokop.
- Co 31 Off Scripps Inst., La Jolla, California. 13m Asbestos sheet on sandbottom. March 5, 1968 Coll. A. Flechsig.

*Obelia geniculata* (Linnaeus 1767)

- Co 22 233.?No data just number.

## LAFOEIDAE

cf. *Lafoea* sp.

- Co 373 East of Skipjack Island, Washington. 73-155m Epibenthic sled. August 19, 1975 Coll. R. Hessler.

*Lafoea* sp.

- Co 13 MV67-II-4. South of Davidson's Seamount, California. 35°N 122°50'W 3908-3972m June 10, 1967 R/V T. Washington. Coll. C. Hubbs.

*Lafoea dumosa* (Fleming 1828)

- Co 303 SIOM59-61-8. Off Balast Point, San Diego, California. June 29, 1903.  
Co 305 SIOM59-61-5. Balast Point, San Diego, California. July 15, 1903.  
Co 976 H-6. San Onofre, California. 5-20m October 12, 1979 Coll. J.A. Haugness.

*Lafoea* cf. *fruticosa* Sars 1863

- Co 2 Colnett-Nov. 64. Banco San Isidro, Baja Calif. Norte, Mexico. 31°7'N 116°35'W 212m Midwater trawl #18 & #19. Hit bottom. November 24, 1964 1216-1256. R/V Horizon. Coll. Dan Brown, C.W. Jerde.

*Lafoea fruticosa* Sars 1863

- Co 14 Forty Mile Bank, off San Diego, California. 32°40'N 118°W 102m R/V E.W. Scripps. Coll. Shepard.

## CAMPANULINIDAE

*Calycella syringa* Linnaeus

- Co 351 Haul 1102. 32°51.6'N 117°16.8'W 64-27m Sand, mud, & broken shells. June 20, 1906 0540.

## SERTULARIIDAE

- Co 345 MV73-I-39. West of Puerto Madero, Chiapas, Mexico. 14°43'N 92°55.5'W 55m 40' otter trawl. April 10, 1973 1846-1937. R/V Agassiz. Coll. C. Hubbs, S. Luke.  
Co 375 Bird Rock, Isthmus, Santa Catalina Island, California. 7-10m SCUBA. March 8, 1973 Coll. R. Bauer.  
Co 380 M-15 OT-18. Vandenburg Missile Base, Lompoc, California. 34°46.2'N 120°43.2'W 70m 25' otter trawl. April 2, 1974 1102-1144. R/V Agassiz. Coll. T. Matsui.

*Abietinaria* sp.

- Co 19 Punta Cabras, N. San Isidro, Baja California Norte, Mexico. Tidepool. March 29, 1969 Coll. T. Cukr.

- Co 27 SIOM59-34-3. Pacific Grove, California. February 1921 Coll. M. Johnson.  
Co 28 Coronado Bank, California. 32°33'N 117°22'W 128-137m Rock Dredge. February 7, 1969.

*Sertularella* sp.

- Co 43 SIO51-220. S. side of Punta Banda, East of fish camp, Baja California Norte, Mexico. 31°43'N 116°42'W -Baird seine. Beach. February 3, 1951 Coll. C. Hubbs.

*Sertularella pedrensis* Torrey 1904

- Co 352 Haul 1288. 32°49.7'N 117°18.6'W 73-92m July 16, 1906.

*Sertularella turgida* (Trask 1857)

- Co 16 No data

*Sertularia desmoides* Torrey 1902

- Co 39 SIOM59-61-14. Ballast Point, San Diego, California. Trawl. June 29, 1903.  
Co 42 SIO63-162. E. side, cove North of Barracks Beach, Isla Guadalupe, Baja California Norte. 29°5'N 118°8'W 0-1000m 10' IKMT. April 20, 1963 Coll. J. Stewart.

*Sertularia furcata* Trask 1857

- Co 17 SIOM59-61-3. La Jolla, California. Tidepools  
Co 030 Scripps Canyon, Off Scripps Inst., La Jolla, California. 21m SCUBA. April 7, 1969 Coll. R. Kiwala.  
Co 38 La Jolla, California. Tidepools. February 1968 Coll. F. Rokop.  
Co 040 SIOM59-61-12. La Jolla, California. 7m June 2, 1905.  
Co 314 North of Scripps Pier, La Jolla, California. Tidepools. January 26, 1960 Coll. Sam Hinton.

*Halecium kofoidi* Torrey 1902

- Co 41 S. Coronado Island, Baja California Norte, Mexico. July 25, 1903.

## PLUMULARIIDAE

- Co 326 Santa Catalina, California. 7-10m SCUBA. March 8, 1973 Coll. R. Bauer.  
Co 329 H48-215 to H48-222. S. Coronado Island, Baja Calif. Norte, Mexico. 32°22'N 117°10'W 15-55m Pipe stem dredge. August 11, 1948 E.W. Scripps. Coll. C. Hubbs.  
Co 332 Baja 69-19. Punta Eugenia, Baja California Norte, Mexico. 28°0'N 115°30'W 112m Pipe dredge w/chain bag. February 24, 1969 R/V Oconostota.  
Co 336 MV71-I-1. Isla de Afuera, Isla Guadalupe, Baja Calif. Norte, Mexico. 28°51.5'N 118°16.3'W 95-81m 6' Sigsbee trawl. May 18, 1971 1603-1615. R/V Agassiz. Coll. C. Hubbs, S. Luke.

- Co 402 H51-26. West of Estero de Pta. Banda, Bahia Todos Santos, Baja Calif. Norte, Mexico. 18-22m Sand spit. February 5, 1951 R/V Orca. Coll. C. Hubbs.
- Co 406 Sea Breeze SB 51. Tombola at S.W. tip of Isla San Jose, Baja Calif. Sur, Mexico. 24°45'N 110°35'W -. Intertidal. April 14-15, 1960 R/V Orca. Coll. A. Flechsig & Clutter.
- Co 409 No. 233. From head of Monterey Canyon, California. 36°49'N 121°49'W 27-37m.
- Co 529 6203B-18. Off Bahia San Quintin, Baja Calif. Norte, Mexico. 30°13.5'N 116°5'W 183m 16' otter trawl #TR-61. April 1, 1962 Coll. H.C. Perkins.

### *Aglaophenia* sp.

- Co 7 Bolinas Bay, Mendocino, California. March 1921 Coll. M. Johnson.
- Co 9 RR61-34. 6km. North of Punta Gorda, Isla Ceralvo, Baja California Sur, Mexico. 24°9'N 109°52'W 0-3m Rotenone, dipnet, diving. June 21, 1961 Coll. R. Rosenblatt.
- Co 12 250. San Diego Bay, San Diego, California. September 6-7, 1915.
- Co 29 La Paz, Baja California Sur, Mexico. 1959 1512-1959. Coll. Lemche.
- Co 47 ca. 20 km. South of San Felipe, Baja California Norte, Mexico. Intertidal. March 16, 1968 Coll. F. Rokop. otter trawl #TR-61. April 1, 1962 Coll. H.C. Perkins.
- Co 48 RR61-26. North of Los Frailes, Baja California Sur, Mexico. Chemfish. June 18, 1961 Coll. R. Rosenblatt.
- Co 50 Cortez Bank. 19m June 19, 1938 Coll. F.P. Shepard.
- Co 59 SIO64-870. Near Todos Santos, Baja California Sur, Mexico. 23°46'N 110°46'W 65m Otter trawl. November 10, 1914.
- Co 323 SIO55-107. Oso Flaco outfall, San Luis Obispo, California. 13-20m 10' otter trawl. 2-2.3 k. offshore. December 10, 1955 Coll. A. Rehnitzer.
- Co 338 MV71-I-1. Isla Guadalupe, Baja Calif. Norte, Mexico. 28°51.5'N 118°16.3'W 95-81m 6' Sigsbee trawl. May 18, 1971 R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 342 MV73-I-1. End of municipal pier, La Paz, Baja Calif. Norte, Mexico. 24°11.5'N 110°18.1'W -Break off clumps of sponges. Intertidal on pier pilings. March 29, 1973 1300. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 376 Santa Catalina Island, California. 7-10m SCUBA. March 8, 1973 Coll. R. Bauer.

### *Aglaophenia digensis* Torrey 1902

- Co 10 6411B-15. S.W. of Isla Santa Margarita, Baja California Sur, Mexico. 24°19'N 111°48'W 75-81m 16' otter trawl. November 13, 1964.
- Co 11 SIOM59-61-1. San Diego Bay, San Diego, California

- Co 1 SIO51-20. Fish camp, S. side of Punta Banda, Baja California Norte, Mexico. 31°43'N 116°42'W -Baird seine. Beach. February 3, 1951 Coll. C. Hubbs.
- Co 3 Haul 958. 0m Sand and Rock. Low tide collection about La Jolla. July 4, 1905.
- Co 20 SIO63-1047. Pier pilings at "Old Mill Pier", Bahia San Quintin, Baja Calif. Norte, Mexico. 30°28.8'N 115°58.8'W 0-1m Intertidal wood pier pilings. November 29, 1963 Coll. K. Radford.
- Co 46 SIO64-877. 1.5 km. S.W. of Isla Santa Margarita, Baja California Sur, Mexico. 24°20'N 111°47'W 36-47m 16' otter trawl. November 13, 1964 R/V Black Douglas.
- Co 301 SIOM59-34-4. Pacific Grove, California. February 1921 Coll. Wallace.

### *Aglaophenia* cf. *longicarpa* Fraser

- Co 57 SIO63-169 haul #3,#4. Melpomene Cove, Isla Guadalupe, Baja Calif. Norte, Mexico. 28°53'N 118°16.7'W 24-31m Tri-net. April 22, 1963 R/V Horizon. Coll. C. Hubbs.

### *Aglaophenia pluma* (Linnaeus 1758)

- Co 18 SIO63-162. 2nd Cove North of Barracks Beach, Isla Guadalupe, Baja California Norte, Mexico. 0-28m SCUBA & Chemfish. Large boulders. April 202, 1963 1330-1530. R/V Horizon. Coll. J. Stewart.

### *Aglaophenia struthionoides* (Murray 1860)

- Co 23 SIOM59-34-3. Pacific Grove, California. February 1921 Coll. M. Johnson.
- Co 26 (C) #3. Carlsbad Lagoon. March 23, 1957 Coll. Kettner.
- Co 52 H52-211. Bahia San Carlos, Baja California Norte, Mexico. 13m Try net. From tuna tender. September 8, 1952 R/V Orca. Coll. K.S. Norris.
- Co 53 251. 1 km. off Torrey Pines, La Jolla, California. 37m July 13, 1921.
- Co 55 250. Old Coronado Pier, San Diego Bay, San Diego, California. Warf pilings
- Co 60 1113.35 5403-H. March 12, 1954 0600. Coll. E. Cheatham.
- Co 975 H-5. San Onofre, California. 2 0m September 17, 1979 Coll. J. A. Haugsness.

### *Antennella avalonia* Torrey 1902

- Co 51 La Jolla, California. February 1968 Coll. F. Rokop.

### *Diplocheilus allmani* Torrey 1902

- Co 300 Point Loma, San Diego, California. June 27, 1903.

*Plumularia* sp.

Co 44 MV68-I-33. Bahia Santa Inez, Baja Calif. Sur, Mexico. 26°57.6'N 111°55.5'W 53-57m Otter trawl. January 14, 1968 0923-1000. R/V T. Washington. Coll. C. Hubbs.

*Plumularia alicia* Torrey 1902

Co 5 No data

Co 35 Dana Marina, Mission Bay, San Diego, California. On pilings. April 5, 1969 Coll. R. Kiwala, T. Cukr.

*Plumularia lagenifera* Allman 1877

Co 4 SIOM59-61-13. Ballast Point, Point Loma, San Diego, California. July 1, 1903.

Co 24 SIOM59-61-11. Coronado Beach, Coronado, California. June 23, 1904.

Co 973 H-3. San Onofre, California. 5-20m September 14, 1978 Coll. J.A. Haugsness.

*Plumularia margaretta* Nutting 1900

Co 309 Haul 3188. La Jolla Caves, La Jolla, California. October 29, 1913 Coll. W.S. Wallace.

*Plumularia megalcephala* Allman 1877

Co 312 SIOM59-61-7. Off San Diego, California. 73-137m July 13, 1903.

*Plumularia palmeri*

Co 8 SIOM59-61-15. Coronado Beach, Coronado, California. May 19, 1904.

*Plumularia plumularoides* (Clark 1876)

Co 15 MV65-I-67. Canal de Cerralbo, on W. side off Punta Gorda,, Baja Calif. Sur, Mexico. 24°11'N 109°59'W 81-84m 45' otter trawl. July 2, 1965 1637-1745. R/V Horizon. Coll. C. Hubbs.

Co 556 Holdfast #1. La Jolla Cove kelp beds, La Jolla, California. 12m *Macrocystis pyrifera*. October 10, 1957 Coll. R. Gerhardi.

## SYNTHECIDAE

*Synthecium cylindricum* (Bale 1888)

Co 302 SIOM59-61-6. Ballast Point, San Diego, California. July 15, 1903.

## MILLEPORINA

## MILLEPORIDAE

*Millepora* sp.

Co 281 Off Henry Island, Eniwetak Atoll, Marshall Islands. 7m Seaward reef. August 1968 Coll. T. Dana.

Co 1123 TEPE70-30. Agualagarna Is, Holandes Cay, San Blas Island, Panama. 9°35.9'N 78°46.9'W 0-20m SCUBA. September 27-Oct. 7, 1970 R/V Alpha Helix. Coll. W. Newman, T. Dana, S. Luke.

Co 1768 Eilat, Red Sea. w/Pyrgomatidae (C 5973) July 1972. Fishelson.

Co 1779 Ras Kanisa, Red Sea. 10 w/Pyrgomatidae (C 5981) October 8, 1971. Fishelson.

*Millepora alcicornis* Linnaeus

Co 551 Hydro Lab, Lucaya, Grand Bahamas Island. 26°30'N 78°45'W 13-27m SCUBA. 1973 Coll. A. Flechsig.

*Millepora exaesa*

Co 278 Carmarsel-315. S.E. side against reef edge of Lottin Harbor, Kusaie, Caroline Islands. 3-30m SCUBA. March 21, 1967 R/V Horizon. Coll. P. Crampton, J. Stewart.

*Millepora intricata*

Co 283 Gulf of Chiriqui, Panama. Coll. T. Dana.

*Millepora murrayi* Quelch

Co 1046 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

*Millepora platyphylla*

Co 1773 Ras Burka, Red Sea. w/Pyrgomatidae (C 5974) June 1971. Fishelson.

*Millepora tenera*

Co 292 Henry Island, Eniwetak Atoll, Marshall Islands. 5m Lagoon. August 1968 Coll. T. Dana.

## STYLASTERINA

## STYLASTERIDAE

*Allopora* sp.

Co 442 Farnsworth Bank, Catalina Island, California. 28-30m SCUBA. Coll. J. McCosker.

*Errinopora zarhyncha* Fisher 1938

Co 1223 Gulf of Alaska. Coll. Robert Yin. Det. S. Cairns /86.

*Crypthelia trophostega* Fisher 1938

Co 1222 Gulf of Alaska. Coll. Robert Yin. Det. S. Cairns /86.

*Distichopora*

Co 1786 USNM #107. cf. Nukulofa reef, Tonga. w/Pyrgomatidae (C 8013). Coll. J.E. Hoffmeister.

*Stylaster brochi* (Fisher 1938)

Co 1221 Gulf of Alaska. Coll. Robert Yin. Det. S. Cairns /86.

*Stylaster elegans*

Co 282 Eniwetak Atoll, Marshall Islands. Lagoon. Coll. T. Dana.

*Stylaster roseaus*

Co 555 Hydro Lab, Lucaya, Grand Bahamas Island. 26°30'N 78°45'W 13-27m SCUBA. 1973 Coll. A. Flechsig.

*Stylaster sanquineus* Milne-Edwards & Haime 1850

Co 1231 N. coast of Heron Island, Queensland, Australia. 8-12m April 24, 1981 Coll. J.H. Stock. Det. H. Zibrowius /1981.

## HYDROZOA

## Incertae Sedis

Co 304 5 km. South of San Felipe, Baja California Norte, Mexico. March 25, 1968 Coll. F. Rokop.

Co 306 SIO63-1047. Pier pilins at "Old Mill Pier", Bahia San Quintin, Baja Calif. Norte, Mexico. 30°28.8'N 115°58.8'W 0-1m Intertidal wood pier pilings. November 29, 1963 Coll. K. Radford.

Co 308 End of Scripps Pier, La Jolla, California. 100 m. offshore. Scrappings from pilings. November 8, 1915.

Co 313 Off end of Scripps Pier, La Jolla, California. From holdfast of elk kelp, *Pelagophycus pora*. November 23, 1915.

Co 319 MV68-I-9. East of Punta Gorda, Baja Calif. Sur, Mexico. 23°4'N 109°28.5'W 97-187m 41' otter trawl. January 10, 1968 1234-1401. R/V T. Washington. Coll. C. Hubbs.

Co 321 MV73-I-8. N.E. of Isla Maria Madre, Islas Tres Marias, Mexico. 21°56.1'N 106°10.5'W 55m 40' otter trawl. Flat sand. March 31, 1973 1830-1910. R/V Agassiz. Coll. C. Hubbs, S. Luke.

Co 322 Cortez Bank. 32°30.2'N 119°13.7'W 94m 16' otter trawl. May 16, 1963 2030-2100. Coll. F.H. Berry.

Co 324 MV73-I-38. N.E. shore of Golfo de Tehuantepec, Oaxaca, Mexico. 15°30.7'N 93°22.8'W 22m 40' otter trawl. April 10, 1973 0817-0842. R/V Agassiz. Coll. C. Hubbs, S. Luke.

Co 325 Japanyon JYN-III-50. Off Yokohama, Japan. 34°53.5'N 139°45.25'E 460m Dredge. July 17, 1961 1221-1324. R/V Spencer F Baird. Coll. Shepard.

Co 327 Monsoon P-241-60. Off Soembawa Island. 7°56'S 117°51'E 1840m Peterson grab. October 28, 1960 Coll. R. Parker & Rowland.

Co 328 MV73-I-20. Punta Lizardo, Michoacan, Mexico. 18°5.7'N 102°59'W 46-49m 40' otter trawl. April 4, 1973 1227-1303. R/V Agassiz. Coll. C. Hubbs, S. Luke.

Co 330 H48-215 to H48-222. S. Coronado Island, Baja Calif. Norte, Mexico. 32°22'N 117°10'W 15-55m Pipe stem dredge. August 11, 1948 E.W. Scripps. Coll. C. Hubbs.

Co 333 MV71-I-33. West of Isla Cedros, Baja Calif. Norte, Mexico. 28°22'N 115°20'W 221-203m 25' otter trawl. May 27, 1971 1549-1704. R/V Agassiz. Coll. C. Hubbs, S. Luke.

Co 335 MV68-I-35. Bahia Santa Inez, Baja Calif. Sur, Mexico. 26°56'N 111°58'W 37m Otter trawl. January 14, 1968 1120-1135. R/V T. Washington. Coll. C. Hubbs.

Co 337 R-9. Tanner Basin. 32°50'N 119°32.5'W 1397m 25' otter trawl. Mud. October 28, 1970 1800-2100. R/V Agassiz. Coll. F. Rokop, S. Luke.

Co 339 Cactus & LaCrosse A-bomb craters, Runit Is (Yvonne Is.), Eniwetak Atoll. 11°30'N 162°10'E 0-30m SCUBA. In craters & on reef flat. September 1971 to May 72. Coll. R. Nolan, T. Dana, T. Scanland.

Co 340 M-15 OT-18. Vandenburg Missile Base, Lompoc, California. 34°46.2'N 120°43.2'W 70m 25' otter trawl. April 2, 1974 1102-1144. R/V Agassiz. Coll. T. Matsui.

Co 341 MV73-I-66. West of Punta Amalpa, Golfo de Fonseca, El Salvador. 13°6.7'N 88°5.5'W 18m 40' otter trawl. April 17, 1973 1122-1153. R/V Agassiz. Coll. C. Hubbs, S. Luke.

Co 343 MV73-I-22. E.S.E. of Punta Telmo near Punta Lizardo, Michoacan, Mexico. 18°7'N 102°57'W 22-24m 40' otter trawl. Sand. April 4, 1973 1536-1602. R/V Agassiz. Coll. C. Hubbs, S. Luke.

Co 344 MV73-I-14. N. Part of Bahia Chamela, Jalisco, Mexico. 19°34'N 105°8'W 27-18m 40' otter trawl. Soft sand. April 2, 1973 1558-1617. R/V Agassiz. Coll. C. Hubbs, S. Luke.

- Co 346 SIO64-877. 1.5 km. S.W. of Isla Santa Margarita, Baja California Sur, Mexico. 24°20'N 111°47'W 46-57m 16' otter trawl. November 13, 1964 R/V Black Douglas.
- Co 347 Quast Rock, La Jolla, California. 23m SCUBA. April 7, 1969 Coll. R. Kiwala.
- Co 349 Shelter Island boat docks, San Diego Bay, San Diego, California. January 1969.
- Co 353 RED 71. Basilian Strait. August - September 1961.
- Co 354 RED 67. Basilian Strait. August - September 1961.
- Co 356 P.A.S. Off Baja California Norte, Mexico. 27°23'N 119°19'W 1000-2000m April 24, 1954 2030-0130 PST.
- Co 357 Lusiad Exped. LSD H-16. Seychelles Island, India. 4°31'S 54°30'E -Dredge. October 19, 1962 R/V Horizon. Coll. George Shor.
- Co 358 H52-8. Off Tijuana River, San Diego, California. 32°31'N 117°12'W 38m Deep water dredge. February 26, 1952 R/V Horizon. Coll. John Isaacs.
- Co 377 MV73-I-39. West of Puerto Madero, Chiapas, Mexico. 14°43'N 92°55.5'W 55m 40' otter trawl. April 10, 1973 1846-1937. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 381 M-15 OT-18. Vandenburg Missile Base, Lompoc, California. 34°46.2'N 120°43.2'W 70m 25' otter trawl. April 2, 1974 1102-1144. R/V Agassiz. Coll. T. Matsui.
- Co 400 ECCE PB-38. Punta Baja, Baja Calif. Norte, Mexico. 29°57'N 115°48'W -Rotenone, dipnets, crow bar. Mid-intertidal. Rocky. August 9, 1975 0430-0600. Coll. S. Luke.
- Co 410 No. 233. From head of Monterey Canyon, California. 36°49'N 121°49'W 27-37m.
- Co 431 H51-27. Bahia Todos Santos, Baja Calif. Norte, Mexico. 31°45'N 116°40'W 37m Dredge. February 5, 1951 R/V Orca. Coll. C. Hubbs.
- Co 433 H51-18. N. side Pta. Banda, S. side of Bahia Todos Santos, Baja Calif. Norte, Mexico. 31°45'N 116°40'W 70-59m February 2, 1951 R/V Orca. Coll. C. Hubbs.
- Co 435 6411B-25. 9 km. W.S.W. of Punta Pequena, Baja Calif. Sur, Mexico. 26°12.8'N 112°35'W 55-51m 16' otter trawl. November 16, 1964 1505-1535. R/V Black Douglas.
- Co 443 H53-21. Off E. side of San Clemente Island, California. 32°58.3'N 118°21.5'W 466m Isaacs-Kidd dredge. April 28, 1953 Coll. Lewis Kidd.
- Co 450 RR65-3. Bahia de La Paz, Baja Calif. Sur, Mexico. 24°19'N 110°25.4'W 55-80m 40' otter trawl. July 5, 1965 Coll. R. Rosenblatt.
- Co 453 MV65-IV-64. W. end of Isla Juan Fernandez, Bahia Carvajal, Chile. 33°41.2'S 78°58.5'W 10-13m Chemfish & SCUBA. December 15, 1965 1130-1315. Coll. W. Baldwin.
- Co 466 6411B-3. Between Puntas Lobos & Marquis, Baja Calif. Sur, Mexico. 23°34'N 110°23.3'W 64m 16' otter trawl TR #112. November 9, 1964 2020-2050. R/V Black Douglas.
- Co 468 H48-215 to H48-222. S. Coronado Island, Baja Calif. Norte, Mexico. 32°22'N 117°10'W 15-55m Pipe stem dredge. August 11, 1948 E.W. Scripps. Coll. C. Hubbs.
- Co 512 Holt Exped. Sta. 13. West of Punta Cabras, Baja Calif. Norte, Mexico. 31°20'N 116°39.2'W 82m 10' otter trawl. December 4, 1960 Coll. C. Boyd.
- Co 531 CIRCE Exped. 124 DR-124. South of Madagascar. 26°27.2'S 46°7.3'E 1783-1838m Rock dredge. September 29, 1968 1310-1548 GMT. Coll. S. Morris, J. Coatsworth.
- Co 582 TEPE 78-9. Off Punta Amapala, Golfo de Fonseca, El Salvador. 13°1.14'N 88°1'W 42m 16' otter trawl. Mud. April 4, 1978 1948-2030. R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 597 TEPE 78-15. Isla Sacrificios, Oaxaca, Mexico. 15°40.8'N 96°14.6'W 13m SCUBA. April 7, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 611 TEPE 78-19. Off Bahia de Isla Grande (Ixtapa), Guerrero, Mexico. 17°42.6'N 101°42.8'W 44-42m 16' otter trawl. April 10, 1978 1800-1820. R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 612 TEPE 78-20. Off Bahia de Isla Grande (Ixtapa), Guerrero, Mexico. 17°42.3'N 101°44.5'W 91m 16' otter trawl #7. April 10, 1978 1840-1910. Coll. W. Newman, S. Luke.
- Co 623 TEPE 78-23. Bahia Chamela, Jalisco. 19°35'N 105°8.5'W 5-6m SCUBA. April 12, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 629 TEPE 78-26. Montana Rock, S.E. corner of Isla Cerralvo, Baja Calif., Sur, Mexico. 24°8'N 109°47.5'W 7m SCUBA. April 14, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 630 TEPE 78-27. Off Boca de La Trinidad, Baja California, Sur, Mexico. 23°36.3'N 109°31.8'W 49-46m 16' otter trawl. April 14, 1978 2012-2117. R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 652 Near rim of Scripps Submarine Canyon, La Jolla, California. 6-11m Grappling hook. Caught rope on bottom. March 8, 1979 Coll. S. Luke.
- Co 653 Between Puerto San Jose and Pta. Blanca, Baja Calif. Norte, Mexico. 29°15'N 114°50'W -. Intertidal open coast. March 26, 1979 1400. Coll. S. Luke.
- Co 659 NAGA 60 0777. Nhatrang Bay. 12°9.7'N 109°24'E 93m 6' beam trawl. Sept. 20, 1960.
- Co 660 NAGA 60-0144. Gulf of Thailand. 10°3'N 101°52'E 70m 6' beam trawl. January 27, 1960.
- Co 661 NAGA 60 1097. Gulf of Thailand. 12°39.3'N 100°15.75'E 29m 16' otter trawl. December 13, 1960.



- Co 663 NAGA 60 0237. South China Sea. 12°9.7'N 109°24.7'E 93m 10' beam trawl. March 4, 1960.
- Co 664 NAGA 60 0216. South China Sea. 15°40'N 109°43.5'E 479m 10' beam trawl. February 28, 1960.
- Co 666 NAGA 59 0131. Between Ko Lau & Ko Siehon, Gulf of Thailand. 13°1.75'N 100°50.5'E 3m 40' ott. Trawl. December 15, 1959 1108.
- Co 667 NAGA 60 1091. Gulf of Thailand. 12°17.4'N 101°18.7'E 30m 16' otter trawl. December 13, 1960.
- Co 668 NAGA 60 0127. Gulf of Thailand. 8°37'N 102°21.5'E 73m 40' otter trawl. January 24, 1960.
- Co 671 NAGA 60 0127. Gulf of Thailand. 8°37'N 102°21.5'E 73m 40' otter trawl. January 24, 1960.
- Co 672 NAGA 60 0212. South China Sea. 15°40'N 109°02'E 110-198m 10' beam trawl. February 27, 1960 1836.
- Co 673 NAGA 60 0127. Gulf of Thailand. 8°37'N 102°21.5'E 73m 40' otter trawl. January 24, 1960.
- Co 674 NAGA 60-0134. Gulf of Thailand. 8°26'N 100°45'E 1-2m Dipnet & poison. January 25, 1960.
- Co 677 NAGA 60 0175. Gulf of Thailand. 12°4.5'N 100°46'E 27m 6' beam trawl. January 30, 1960.
- Co 678 NAGA 60 0895. Gulf of Thailand. 10°12.75'N 103°32.5'E 26m 6' beam trawl. November 13, 1960.
- Co 679 NAGA 60 1077. Gulf of Thailand. 12°21.25'N 101°31.75'E 31m 16' otter trawl. December 12, 1960.
- Co 681 NAGA 60 0231. South China Sea. 13°28.25'N 110°5.5'E 2195m 1/2 m. Net tow. March 3, 1960.
- Co 682 NAGA 60 0546. Nhatrang. 4°45'N 106°8'E 82m 6' beam trawl. June 22, 1960.
- Co 684 NAGA 60 0212. South China Sea. 15°40'N 109°02'E 110-198m 10' beam trawl. February 27, 1960 1836.
- Co 686 NAGA 60 0237. South China Sea. 12°9.7'N 109°24.7'E 93m 10' beam trawl. March 4, 1960.
- Co 690 NAGA 60 0270. South China Sea. 10°23.8'N 108°53.2'E 49m 2' dredge. March 10, 1960.
- Co 691 NAGA 60 0110. Gulf of Thailand. 6°22.25'N 102°14'E 27m 6' beam trawl. January 22, 1960.
- Co 692 NAGA 60 0822. Nhatrang Bay. 6°33.25'N 107°46'E 73m 2.5' dredge. October 3, 1960.
- Co 693 NAGA 60 0212. South China Sea. 15°40'N 109°02'E 110-198m 10' beam trawl. February 27, 1960 1836.
- Co 694 NAGA 60 0212. South China Sea. 15°40'N 109°02'E 110-198m 10' beam trawl. February 27, 1960 1836.
- Co 696 NAGA 61 0248. Timor Sea. 10°55.4'S 128°54.8'E 40m Shell dredge. April 19, 1961.
- Co 705 NAGA 60 0853. Gulf of Thailand. 10°4.15'N 100°19.15'E 55m 6' beam. November 10, 1960.
- Co 707 NAGA 60 0863. Gulf of Thailand. 9°23.5'N 101°15.15'E 55m 6' beam trawl. November 11, 1960.
- Co 718 NAGA 60 0175. Gulf of Thailand. 12°4.5'N 100°46'E 27m 6' beam trawl. January 30, 1960.
- Co 720 NAGA 60 0206. South China Sea. 12°9.5'N 109°17.5'E 15m 10' beam trawl. February 23, 1960.
- Co 725 NAGA 60 0212. South China Sea. 15°40'N 109°02'E 110-198m 10' beam trawl. February 27, 1960 1836.
- Co 729 NAGA 60 1097. Gulf of Thailand. 12°39.3'N 100°15.75'E 29m 16' otter trawl. December 13, 1960.
- Co 730 NAGA 60 0546. Nhatrang. 4°45'N 106°8'E 82m 6' beam trawl. June 22, 1960.
- Co 732 NAGA 60 0822. Nhatrang Bay. 6°33.25'N 107°46'E 73m 2.5' dredge. October 3, 1960.
- Co 733 NAGA 60 0833. Nhatrang Bay. 6°14.75'N 105°47.15'E 49m 6' beam trawl. October 5, 1960.
- Co 734 NAGA 60 0863. Gulf of Thailand. 9°23.5'N 101°15.15'E 55m 6' beam trawl. November 11, 1960.
- Co 735 NAGA 60 0863. Gulf of Thailand. 9°23.5'N 101°15.15'E 55m 6' beam trawl. November 11, 1960.
- Co 736 NAGA 60 1097. Gulf of Thailand. 12°39.3'N 100°15.75'E 29m 16' otter trawl. December 13, 1960.
- Co 737 NAGA 60 1097. Gulf of Thailand. 12°39.3'N 100°15.75'E 29m 16' otter trawl. December 13, 1960.
- Co 740 NAGA 60 0127. Gulf of Thailand. 8°37'N 102°21.5'E 73m 40' otter trawl. January 24, 1960.
- Co 742 NAGA 60 0845. Gulf of Thailand. 12°54.5'N 100°26.5'E 20m 6' beam trawl. November 9, 1960.
- Co 748 NAGA 60 0212. South China Sea. 15°40'N 109°02'E 110-198m 10' beam trawl. February 27, 1960 1836.
- Co 761 NAGA 60 0127. Gulf of Thailand. 8°37'N 102°21.5'E 73m 40' otter trawl. January 24, 1960.
- Co 762 NAGA 60 0127. Gulf of Thailand. 8°37'N 102°21.5'E 73m 40' otter trawl. January 24, 1960.
- Co 767 NAGA 59 0131. Between Ko Lau & Ko Siehon, Gulf of Thailand. 13°1.75'N 100°50.5'E 3m 40' ott. Trawl. December 15, 1959 1108.
- Co 776 NAGA 60 0863. Gulf of Thailand. 9°23.5'N 101°15.15'E 55m 6' beam trawl. November 11, 1960.

- Co 777 NAGA 60 0895. Gulf of Thailand. 10°12.75'N 103°32.5'E 26m 6' beam trawl. November 13, 1960.
- Co 779 NAGA 60 1094. Gulf of Thailand. 12°16.75'N 100°7.25'E 22m 16' otter trawl. December 13, 1960.
- Co 784 NAGA 60 0863. Gulf of Thailand. 9°23.5'N 101°15.15'E 55m 6' beam trawl. November 11, 1960.
- Co 788 NAGA 61 0209. Timor Sea. 12°15'S 129°13.5'E 31m Shell dredge. April 6, 1961.
- Co 790 NAGA 61 0249. Timor Sea. 10°54.75'S 128°49.75'E 34-82m Chain bag dredge. April 19, 1961.
- Co 802 NAGA 61 0231. Timor Sea. 10°25.15'S 126°33.25'E 31m Shell dredge. April 15, 1961.
- Co 812 NAGA 60 0137. Gulf of Thailand. 8°25.5'N 100°44.7'E 27m 6' beam trawl. January 26, 1960.
- Co 813 NAGA 61 0250. Timor Sea. 10°57'S 128°42'E 34m Shell dredge. April 19, 1961.
- Co 821 NAGA 60 1094. Gulf of Thailand. 12°16.75'N 100°7.25'E 22m 16' otter trawl. December 13, 1960.
- Co 823 NAGA 61 0192. Sundra Str. (Krakatoa), Java Sea. 6°11.2'N 105°29.3'E 91m Chain dredge. March 23, 1961.
- Co 836 NAGA 61 0222. Timor Sea. 11°29.5'S 125°20'E 102m Shell dredge. April 11, 1961.
- Co 847 NAGA 60 0237. South China Sea. 12°9.7'N 109°24.7'E 93m 10' beam trawl. March 4, 1960.
- Co 849 NAGA 60-0452. South China Sea. 15°38'N 112°18'E 1975m April 30, 1960.
- Co 850 NAGA 60 0711. South China Sea. 9°3'N 106°26'E 24m 2.5' dredge. Sept. 8, 1960.
- Co 852 NAGA 60 0863. Gulf of Thailand. 9°23.5'N 101°15.15'E 55m 6' beam trawl. November 11, 1960.
- Co 860 NAGA 61 0246. Timor Sea. 10°56.3'S 129°25.9'E 71m Shell dredge. April 19, 1961.
- Co 870 NAGA 60 0249. Timor Sea. 10°54.75'S 128°49.7'E 3482m Chain bag dredge April 19, 1960
- Co 871 NAGA 60 0249. Timor Sea. 10°54.75'S 128°49.7'E 3482m Chain bag dredge April 19, 1960
- Co 879 NAGA 59 0052. Gulf of Thailand. 8°40'N 102°18.5'E 70m 40' ott. Trawl. October 24, 1959 1045.
- Co 880 NAGA 60 0175. Gulf of Thailand. 12°4.5'N 100°46'E 27m 6' beam trawl. January 30, 1960.
- Co 884 NAGA 60 0546. Nhatrang. 4°45'N 106°8'E 82m 6' beam trawl. June 22, 1960.
- Co 885 NAGA 60 0833. Nhatrang Bay. 6°14.75'N 105°47.15'E 49m 6' beam trawl. October 5, 1960.
- Co 886 NAGA 60 1094. Gulf of Thailand. 12°16.75'N 100°7.25'E 22m 16' otter trawl. December 13, 1960.
- Co 887 NAGA S 61-0227. Timor Sea. 11°38'S 126°33'E 91m Shell dredge. April 13, 1961.
- Co 900 SnaFu SIO80-10. Off San Diego, California. 32°40.24'N 117°21.62'W 201m 25' otter trawl. February 29, 1980 1340. R/V New Horizon. Coll. R. Rosenblatt.
- Co 919 MET Sta. 105. Catalina Basin, California. 33°10'N 118°36'W 1280-1271m 25'otter trawl. January 29, 1981 2400-0230. R/V New Horizon. Coll. K. Smith, S. Luke.
- Co 929 MET Sta. 129. West of Patton Escarpment. 32°22'N 120°42'W 3640-3740m 40' otter trawl. February 6, 1981 R/V N. Horizon. Coll. K. Smith, S. Luke.
- Co 950 Saucer Dive #335. 15 km. West of Pt. Loma, San Diego, California. 175m Diving saucer. April 6, 1965 Coll. A. Flechsig.
- Co 959 NAGA 60 Sta. S11A-V343 61-243. Timor Sea. 10°42'S 130°11.5'E 24m Shell dredge. Reef. April 19, 1961 0243-0259.
- Co 962 Cape Armitage, McMurdo Sound, Antarctica. 23m November 11, 1967 Coll. Robiliard & Dayton.
- Co 963 S. Cape Armitage, McMurdo Sound, Antarctica. 43m December 7, 1974 Coll. P. Dayton.
- Co 968 Hytton Cliffs, McMurdo Sound, Antarctica. 40m Cobble bottom. December 6, 1974 Coll. P.K. Dayton.
- Co 984 SCII, Sta. 103. West of Patton Escarpment. 32°23'N 120°32'W 3970m 40' otter trawl. January 10, 1982 R/V N. Horizon. Coll. R.R. Wilson.
- Co 1204 PROTEA 6 Sta. 46. N.E. side of Elephant Island, S. Shetland Island. 60°57.5'S 55°5.3'W 150m Rock dredge. March 25, 1984 R/V Melville.
- Co 1646 Monsoon Exped. Sta. VI-1 70-D. East of New Zealand. 43°9'S 175°15'E 119m Rock dredge 70-D. January 29, 1961 0353-0430. Coll. Russell.
- Co 1653 MV65-I-31. Off Bahia San Hipolito, Baja Calif. Sur, Mexico. 26°31'N 114°15'W 2054-2136m 45' otter trawl. June 22, 1965 1035-1503. R/V Horizon. Coll. C. Hubbs.
- Co 1654 SIO63-169 haul #3,#4. Melpomene Cove, Isla Guadalupe, Baja Calif. Norte, Mexico. 28°53'N 118°16.7'W 24-31m Tri-net. April 22, 1963 R/V Horizon. Coll. C. Hubbs.

## SIPHONOPHORA

## SIPHONOPHORA

## RHODALIIDAE

*Dromalia alexandri* Bigelow 1911

- Co 63 SIO60-64. Off Cabo Colneyy, Baja California Norte, Mexico. 31°4'N 116°30'W 220m Deep diving dredge. March 9, 1960 Coll. R. Parker.
- Co 421 SIO76-95. North of Catalina Island, California. 33°33.5'N 118°38.5'W 585-534m 40' otter trawl. Mud. March 9, 1976 0450-0630. R/V Agassiz. Coll. S. Luke.
- Co 427 SIO76-96. North of Catalina Island, California. 33°33.4'N 118°38'W 556-585m 40' otter trawl. Mud. March 9, 1976 0922-1105. R/V Agassiz. Coll. S. Luke.
- Co 456 Off Coal Oil Point, Goleta, California. 34°40'N 119°50'W 90-110m Beam trawl. June 4, 1954.
- Co 528 6203B-18. Off Bahia San Quintin, Baja Calif. Norte, Mexico. 30°13.5'N 116°5'W 183m 16' otter trawl #TR-61. April 1, 1962 Coll. H.C. Perkins.
- Co 557 Hol Exped. Sta. 7. Off Bahia San Juanico, Baja California Sur, Mexico. 26°5'N 113°35'W 229-293m 10' otter trawl. December 2, 1960 Coll. C. Boyd. Det. F.G. Hochberg 5/96.
- Co 558 Due West of Pt. La Jolla, San Diego, California. 220-274m 16' otter trawl. January 28, 1965 ST-908. Coll. Fager.
- Co 559 MV71-I-31. Between Islas San Benitos & Cedros, Baja Calif. Norte, Mexico. 28°17.4'N 115°28'W 329-311m 6' Sigsbee trawl. Smooth rising green mud. May 27, 1971 1051-1120. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 560 Straight off Pt. La Jolla, San Diego, California. 101-183m 16' otter trawl #1. January 28, 1965 ST-908. Coll. Fager.
- Co 899 SnFu SIO80-9. Off San Diego, California. 32°43'N 117°24.4'W 402-421m 25' otter trawl. February 29, 1980 1215-1300. R/V New Horizon. Coll. R. Rosenblatt.
- Co 916 MET Sta. 104. Catalina Basin, California. 32°23.6'N 120°35'W 550-640m 25' otter trawl. Mud. January 29, 1981 20-35-2200. R/V New Horizon. Coll. Ken Smith, S. Luke.
- Co 954 Baja 69-15. Off Punta San Eugenia, Baja California Sur, Mexico. 27°28.3'N 114°51'W 110m Pipe dredge W/chain bag. February 24, 1969 R/V Oconostota. F.G. Hochberg 5/96.
- Co 1194 Off San Diego, California. 32°46'N 117°22.7'W 183m 25' otter trawl. July 19, 1984 R/V Van Tuna. Coll. R. Wilson.
- Co 1195 Student Cruise haul #1. Off San Diego, California. 32°44'N 117°23'W 384-329m 26' otter trawl. June 11, 1983 R/V E.W. Scripps. Coll. R. Rosenblatt. Det. F.G. Hochberg 5/96.
- Co 1665 Haul 1534. 32°45.7'N 118°19.5'W 800m Gray sand. July 7, 1908 1130-1230.

Co 1734 Albatross Sta. 4421. Off Catalina Island, California. 1904 Steamer Albatross.

## SCYPHOZOA

## STAUROMEDUSEA

## HALICLYSTIDAE

Co 915 Staten Island, Vancouver Island, Argentina. 10m May 4, 1973.

*Haliclystus*

Co 1196 San Juan Island, Washington. Coll. M.W. Johnson.

*Haliclystus*

Co 469 MV72-II-Soutar. Off Chile. 21°23.7'S 07°25.3'W 450-420m Rock dredge, Manganese nodules. May 1, 1972 R/V Tomas Washington. A. Soutar, S. Luke.

## ANTHOZOA

## CERIANTHIPATHARIA

## ANTIPATHARIA

- Co 491 STYX-7 MPE68096 Sta. 1. Agassiz Guyot. 18°2'N 178°23'E 1673-1975m Rock dredge #10. Cretaceous? reef fauna - fossil. September 6, 1968 1235-1800. R/V Agassiz. Coll. W. Newman.
- Co 503 Canton Island, Phoenix Group. 3°S 172°30'W 5m SCUBA. Seen outside & inside reef 5-45 m. Light green puffy tissue in life. September 28, 1976 Coll. R. Kiwala.

- Co 789 NAGA 61 0249. Timor Sea. 10°54.75'S 128°49.75'E 34-82m Chain bag dredge. April 19, 1961.
- Co 811 NAGA 61 0226. Timor Sea. 11°0'S 125°33.8'E 342m Chain dredge. April 12, 1961.
- Co 830 NAGA 61 0192. Sundra Str. (Krakatoa), Java Sea. 6°11.2'N 105°29.3'E 91m Chain dredge. March 23, 1961.
- Co 893 MARA II dredge 58. Mariana Trench. 16°1'N 145°22'E 2074-2472m Dredge 58. July 19, 1979 R/V T. Washington. Coll. E. Shor.
- Co 983 SCII, Sta. 103. West of Patton Escarpment. 32°23'N 120°32'W 3970m 40' otter trawl. January 10, 1982 R/V N. Horizon. Coll. R.R. Wilson.
- Co 1200 PROTEA 5 Sta. 22. Off tip of S. Africa. 45°34'S 35°16.4'E 2350-1940m Rock dredge. January 28, 1984 R/V Melville. Coll. R.L. Fisher.
- Co 1202 PROTEA-5 Sta. 38. Tip of S. Africa. 39°47'S 45°60'E 1963-1971m Rock dredge. February 6, 1984 R/V Melville. Coll. R.L. Fisher.
- Co 1214 Indomed 8. S.W. Indian Ridge. 41°60'S 42°44'E 1620-1236m Rock dredge 5D. May 12, 1978 R/V Melville.
- Co 1257 PLUM 02 WT D-12. Galapagos Island, Ecuador. 0°14.4'S 88°38.2'W 970-1378m Rock dredge D-12. January 25, 1990.
- Co 1613 Monsoon Sta. P-244-60. 8°5'S 108°45'E 128-119m Shell dredge. November 12, 1960 1322-1545 Coll. P. Rowland.
- Co 1659 ARIES VII 54D. Milwakee Seamount Group. 32°17.4'N 172°47.7'E 732-375m Dredge. August 20, 1971 1200. R/V T. Washington. Coll. R.V. Mead.
- Co 1696 52P C-24. 14°3'N 125°19'W 4448m Free fall grab. December 5, 1975 1921 Prospector. Coll. R. Dick.
- Co 1697 52P C-11. 14°49'N 125°23'W 4510m Free fall grab. December 4, 1975 1519 Prospector. Coll. R. Dick.
- Co 355 RED-81. Basilian Strait, Philippines. August - September 1961.
- Co 486 STYX-7 MPE68095 Sta. 1. Hamilton Guyot. 18°29'N 179°17'W 1790m IKMT #4. September 5, 1968 0045-0720. R/V Agassiz. Coll. W. Newman.
- Co 502 STYX-7 MPE680921 Sta. 2. Kure Atoll. 28°23'N 178°22'W 55m Rock dredge #22 & 23. September 21, 1968 1600-1745. R/V Agassiz. Coll. W. Newman.
- Co 504 SS-72 115DB. N. Pacific Ocean. 38°56.39'N 178°37.26'W 5396m Dredge box. Mud, Nodules, pumice. Ni 0.3, Cu 0.3. June 28, 1972 0300-0650. R/V Sea Scope. Coll. Global Marine Development.
- Co 505 SS-72 71-DB. Central Pacific. 9°2'N 145°0'W 5033m Dredge Box. May 20, 1972 R/V Sea Scope.
- Co 510 SS-72 93-DB. N.W. of Hawaii. 26°30'N 165°58'W 4393m Dredge Box. June 13, 1972 R/V Sea Scope.
- Co 517 SS-72 104-DB. N. Pacific Ocean. 31°58.4'N 177°19.55'W 5194m Dredge box. Mud, pumice, manganese. June 19, 1972 0320-0645. R/V Sea Scope. Coll. Global Marine Development.
- Co 526 West of Islas Revilla Gigedo, Mexico. 14°54.5'N 124°28.3'W 4390m Dredge. August 1975 R/V Prospector. Coll. R. Dick.
- Co 530 CIRCE 112DR. Indian Ocean. 27°50'S 66°12'E 3227m Chain dredge. September 19, 1968 Coll. J. Coatsworth.
- Co 563 Isla Cozumel, Yucatan, Mexico. 1967 Coll. Ron Church.
- Co 645 MV65-1-39. Basin off Bahia Magdalena, Baja Calif. Sur, Mexico. 24°25'N 113°18'W 3427-3621m 45' otter trawl. June 25, 1965 0009-0746. R/V Horizon. Coll. C. Hubbs.
- Co 914 New Harbor, Antarctica. 42m November 15, 1975.
- Co 956 East of Clipperton Island. 14°46'N 125°24'W 4389m Free fall grab. December 9, 1976 R/V Prospector. Coll. Roger Dick.
- Co 1258 PLUM 02 WT D-14. Galapagos Island, Ecuador. 0°6'N 89°7.1'W 1639-1090m Rock dredge D-14. January 27, 1990.
- Co 1266 PLUM 02 WT D-10. Galapagos Island, Ecuador. 0°34'S 88°35'W 1075m Rock dredge D-10. January 25, 1990.
- Co 1604 Lusiad Sta. #92. 3658-3466m Chain dredge. July 17-18, 1963 2100-0130 (+2).

## ANTIPATHIDAE

- Co 722 NAGA 60 0212. South China Sea. 15°40'N 109°02'E 110-198m 10' beam trawl. February 27, 1960 1836.
- Co 738 NAGA 61 0113. Gulf of Thailand. 10°0'N 103°50.25'E 18m 16' otter trawl. February 10, 1961.
- Co 832 NAGA 61 0192. Sundra Str. (Krakatoa), Java Sea. 6°11.2'N 105°29.3'E 91m Chain dredge. March 23, 1961.
- Co 1647 Monsoon Exped. Sta. VI-2 71-D. East of New Zealand. 43°10'S 175°15'E 119m Rock dredge 71-D. January 29, 1961 0500-0630. Coll. Russell.

### *Antipathes* sp.

- Co 562 Cabo San Lucas, Baja California Sur, Mexico. 60m SCUBA. 1967 Coll. Ron Church.

### *Antipathes grandis* Verrill

- Co 561 Auau Channel, Hawaii. 50m SCUBA. 1963 Coll. R. Grigg. Det. R. Grigg.

*Leiopathes glaberrima* (Esper)

Co 1742 Makapuu, Hawaii, 420m Banacles on gold coral. August 21, 1997 Coll. R. Grigg.

## ALCYONACEA

## OCTOCORALLIA

## OCTOCORALLIA

- Co 766 NAGA 60 0127. Gulf of Thailand. 8°37'N 102°21.5'E 73m 40' otter trawl. January 24, 1960.
- Co 969 Estrecho Collingwood, Chile. 51°52'S 73°44'W 15-33m May 19, 1973.
- Co 1491 6111 B-3. ca. 4 miles S.S.E. Cedros Island, Mexico. 28°9'N 115°24'W -16' Otter Trawl #30. November 25, 1961 1945-2015 PST. Coll. Berry.
- Co 1562 32°51'N 117°19'W 80m July 20, 1906.

## TELESTACEA

- Co 1421 Monsoon Exped. (P-239-60). N.E. of Timor. 8°31'S 128°22.7'W 1618-1666m Rock dredge. Top of guyot. October 24, 1960 0100-0200. Coll. R. Parker & Rowland.

## TELESTIDAE

*Telesto californica* Kukenthal 1913

- Co 405 Haul 3181. Off San Diego, California. 32°28.5'N 117°15.3'W 55m Green mud. February 10, 1912 1440-1500 Coll. Agassiz.
- Co 432 H51-32. N. side of Pta Banda, Bahia Todos Santos, Baja Calif. Norte, Mexico. 31°45'N 116°35'W 27-46m Pipe dredge. February 6, 1951 1155-1210. R/V Orca. Coll. C. Hubbs.
- Co 642 940 Haul 803. Albatross Sta. 4422. [uncertain data]. E. Point, San Nicholas Island, S. 6° W. 5 km. 57-58m C. Smith SBMNH.
- Co 643 Straight off Pt. La Jolla, San Diego, California. 101-183m 16' otter trawl #1. January 28, 1965 ST-908. Coll. Fager.
- Co 910 Student Cruise. Off Point Loma, San Diego, California. 32°35.5'N 117°20.2'W 91-101m Otter trawl. November 15, 1980 R/V E.B. Scripps. Coll. A. Fleminger.
- Co 960 Menard's Student Cruise. Off San Diego, California. 32°33'N 117°22'W 128-137m Rock dredge. February 7. F.G. Hochberg 5/96.
- Co 419 Sea Breeze SB-39. Beach 5 mi. N of Guaymas, Sonora, Mexico. 27°55'N 111°W -. Intertidal. April 10-11, 1960 R/V Orca. Coll. A. Flechsig.
- Co 482 STYX-7 MPE68091 Sta. 3. Hess Guyot. 17°53.1'N 174°23'W 1763-1719m Sigsbee trawl. September 1, 1968 0900-1250. R/V Agassiz. Coll. W. Newman.
- Co 487 STYX-7 MPE68095 Sta. 1. Hamilton Guyot. 18°29'N 179°17'W 1790m IKMT #4. September 5, 1968 0045-0720. R/V Agassiz. Coll. W. Newman.
- Co 496 STYX-7 MPE680917 Sta. 2. Darwin Guyot. 22°2'N 171°37'E 1280-1262m Rock dredge. September 17, 1968 R/V Agassiz. Coll. W. Newman.
- Co 497 STYX-7 MPE68092 Sta. 1. Hess Guyot. 17°51'N 174°14'W 1778-1721m Rock dredge. September 2, 1968 R/V Agassiz. Coll. W. Newman.
- Co 499 STYX-7 MPE680920 Sta. 1. Nero Bank. 27°58.7'N 177°56.5'W 60-73m Rock dredge #20. Coralline algae. September 20, 1968 1415-1600. R/V Agassiz. Coll. W. Newman.
- Co 599 TEPE 78-15. Isla Sacrificios, Oaxaca, Mexico. 15°40.8'N 96°14.6'W 13m SCUBA. April 7, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 621 TEPE 78-23. Bahia Chamela, Jalisco. 19°35'N 105°8.5'W 5-6m SCUBA. April 12, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 622 TEPE 78-23. Bahia Chamela, Jalisco. 19°35'N 105°8.5'W 5-6m SCUBA. April 12, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 687 NAGA 60 0845. Gulf of Thailand. 12°54.5'N 100°26.5'E 20m 6' beam trawl. November 9, 1960.
- Co 688 NAGA 60 0110. Gulf of Thailand. 6°22.25'N 102°14'E 27m 6' beam trawl. January 22, 1960.
- Co 708 NAGA 60 1103. Gulf of Thailand. 13°5.75'N 100°26.15'E 18m 16' otter trawl. December 13, 1960.
- Co 715 NAGA 60 0127. Gulf of Thailand. 8°37'N 102°21.5'E 73m 40' otter trawl. January 24, 1960.
- Co 721 NAGA 60 0208. South China Sea. 12°14.7'N 109°18.4'E 28m 10' beam trawl. February 25, 1960.

- Co 726 NAGA S4 60-0219. S. China Sea. 15°39'N 111°51'E 1264-1234m 10' beam trawl. Sand & mud. February 29, 1960 0200-0245. ```.
- Co 727 NAGA 60 0264. South China Sea. 10°31.5'N 109°25'E 183m 10' beam trawl. March 9, 1960.
- Co 758 NAGA 60 0102. Gulf of Thailand. 12°33'N 100°44'E 27m 6' beam trawl. January 19, 1960.
- Co 764 NAGA 60-0155. Gulf of Thailand. 11°59'N 102°18'E -3m Hand collected. January 28, 1960.
- Co 782 NAGA 59 0131. Between Ko Lau & Ko Siehon, Gulf of Thailand. 13°1.75'N 100°50.5'E 3m 40' ott. Trawl. December 15, 1959 1108.
- Co 785 NAGA 61 0209. Timor Sea. 12°15'S 129°13.5'E 31m Shell dredge. April 6, 1961.
- Co 792 NAGA 61 0253. Timor Sea. 10°15.9'S 128°44.3'E 56m Shell dredge. April 20, 1961.
- Co 795 NAGA 61 0221. Timor Sea. 11°29.5'S 124°39.8'E 192m Shell dredge. April 11, 1961.
- Co 809 NAGA 61 0250. Timor Sea. 10°57'S 128°42'E 34m Shell dredge. April 19, 1961.
- Co 815 NAGA 60 0140. Gulf of Thailand. 9°7'N 100°47.75'E 33m 6' beam trawl. January 26, 1960.
- Co 818 NAGA 60 0546. Nhatrang. 4°45'N 106°8'E 82m 6' beam trawl. June 22, 1960.
- Co 828 NAGA 61 0249. Timor Sea. 10°54.75'S 128°49.75'E 34-82m Chain bag dredge. April 19, 1961.
- Co 829 NAGA 61 0192. Sundra Str. (Krakatoa), Java Sea. 6°11.2'N 105°29.3'E 91m Chain dredge. March 23, 1961.
- Co 840 NAGA 59-0081. South China Sea. 12°20'N 109°15'E 13m Dredge. November 23, 1959.
- Co 841 NAGA 60 0120. Gulf of Thailand. 9°6'N 104°14'E 22m 2' bio dredge. January 23, 1960.
- Co 843 NAGA 60 0212. South China Sea. 15°40'N 109°02'E 110-198m 10' beam trawl. February 27, 1960 1836.
- Co 854 NAGA 61 0246. Timor Sea. 10°56.3'S 129°25.9'E 71m Shell dredge. April 19, 1961.
- Co 867 NAGA 61 0245. Timor Sea. 10°56.3'S 129°36.25'E 28m Shell dredge. April 19, 1961.
- Co 904 Entrance to Bahia Tortugas, Baja Calif. Sur, Mexico. 8-17m SCUBA & hand collections. *Macrocystis* kelp community. August 4-6, 1980 Coll. Mia Tegner.
- Co 946 MV71-I-62. San Diego Trough, California. 32°28'N 117°29'W 1235m 25' otter trawl. June 1, 1971 R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 953 E. Pacific. 4572m Box core. Manganese nodule ship Kennecott Exploration Inc., Del Mar, California. Coll. E. Habecker.
- Co 966 McMurdo Sound, Antarctica. October 28, 1974.
- Co 1219 Indomed 8. S.W. Indian Ridge. 36°38.7'S 52°6'E 808-975m Rock dredge #14. May 22, 1978 R/V Melville.

- Co 1625 San Juan Mountain. 30°4.0' 120°58.0' 969m July 1938 Coll. Shepard.
- Co 1733 SIO94-197, Haul 52 etc. Aleutian Islands, Alaska. 399m June 15, 1994.

## ALCYONIIDAE

### *Anthomastis* sp.

- Co 894 Bank 7 km. S.W. of Coronado Island, Baja California Norte, Mexico. 32°17'N 117°32'W 732m November 17, 1938 F.P. Shepard.
- Co 451 38-05
- Co 588 69/06/1. S.E. San Nicolas Island, California. 1189-732m Dredge #15. June 1969 R/V Agassiz. Coll. Edwin Alison.
- Co 589 Albatross Sta. 4418. S.W. of Santa Barbara Island, California. N 8° E. 11 km. 435m 1904.
- Co 948 Southern Borderland III Sta. SOB 5. West of Punta Banda, Baja Calif. Norte, Mexico. 31°18'N 117°37'W 2068-2086m 30' otter trawl. February 13, 1960 1530-1700. Coll. R. Parker & Yonge.

### *Lobophytum crassum*

- Co 275 Carmarsel-307. West of Ulul Island, Namonuito Atoll, Caroline Islands. 5-20m SCUBA. On *Heliopora*. February 15, 1967 1250-1330 R/V Horizon. Coll. W. Newman.

## NEPTHEIDAE

### *Gersemia* sp.

- Co 655 Point Barrow Alaska. 13-40m SCUBA. August 3-8, 1958.

### *Gersemia rubiformis* Molander 1915

- Co 587 Point Thompson, Alaska. 68°7'N 166°10'W 13m August 11, 1958.

## COENOTHECALIA

## HELIOPORIDAE

### *Heliopora coerulea*

- Co 276 Carmarsel-303. West of Ulul Island, Namonuito Atoll, Caroline Islands. 0-21m SCUBA. February 12, 1967 1440-1520. R/V Horizon. Coll. W. Newman, J. Stewart.
- Co 277 Carmarsel-305. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 22-12m SCUBA. February 14, 1967 R/V Horizon. Coll. W. Newman, J. Stewart.

Co 151 Carmarsel-306. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 8-13m SCUBA. February 14, 1967 R/V Horizon. Coll. Hokukous & J. Stewart.

## GORGONACEA

## GORGONIANS

- Co 391 ECCE BT-22. 1 mi. E of town of Tortugas, Bahia Tortugas, Baja Calif. Sur, Mexico. 27°41'N 114°53'W -. Intertidal sandstone. July 31, 1975 0730-0930. Coll. S. Luke.
- Co 403 Shepard No. 69. 40 Mile Bank off San Diego, California. 32°0'N 117°56.2'W 183m Dredge. June 10, 1938 "E.W. Scripps".
- Co 418 Sea Breeze SB-39. Beach 5 mi. N of Guaymas, Sonora, Mexico. 27°55'N 111°0'W -. Intertidal. April 10-11, 1960 R/V Orca. Coll. A. Flechsig.
- Co 436 6411B-25. 9 km. W.S.W. of Punta Pequena, Baja Calif. Sur, Mexico. 26°12.8'N 112°35'W 55-51m 16' otter trawl. November 16, 1964 1505-1535. R/V Black Douglas.
- Co 438 H52-122. Sebastian Vizcaino Bay, Baja Calif. Sur, Mexico. 27°54'N 114°52.4'W 55m Pipe stem dredge. August 11, 1952 1245. R/V Paolina-T. Coll. K.S. Norris.
- Co 457 SIO61-517. Off San Diego, California. 32°38.6'N 117°15.6'W 30m Large dredge. Rock and kelp. November 19, 1953 0900.
- Co 463 Bahia Tortugas, Baja Calif. Sur, Mexico. 27°41'N 114°53'W -. November 1959.
- Co 465 6411B-3. Between Puntas Lobos & Marquis, Baja Calif. Sur, Mexico. 23°34'N 110°23.3'W 64m 16' otter trawl TR #112. November 9, 1964 2020-2050. R/V Black Douglas.
- Co 590 TEPE 78-15. Isla Sacrificios, Oaxaca, Mexico. 15°40.8'N 96°14.6'W 13m SCUBA. April 7, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 614 TEPE 78-23. Bahia Chamela, Jalisco. 19°35'N 105°8.5'W 5-6m SCUBA. April 12, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 615 TEPE 78-23. Bahia Chamela, Jalisco. 19°35'N 105°8.5'W 5-6m SCUBA. April 12, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.

- Co 616 TEPE 78-23. Bahia Chamela, Jalisco. 19°35'N 105°8.5'W 5-6m SCUBA. April 12, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 617 TEPE 78-23. Bahia Chamela, Jalisco. 19°35'N 105°8.5'W 5-6m SCUBA. April 12, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 618 TEPE 78-23. Bahia Chamela, Jalisco. 19°35'N 105°8.5'W 5-6m SCUBA. April 12, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 625 TEPE 78-26. Montana Rock, S.E. corner of Isla Cerralvo, Baja Calif., Sur, Mexico. 24°8'N 109°47.5'W 7m SCUBA. April 14, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 658 NAGA 61 0213. Timor Sea. 13°21.5'S 127°1.3'E 270m Shell dredge (no BT). April 8, 1961.
- Co 662 NAGA 60 0212. South China Sea. 15°40'N 109°02'E 110-198m 10' beam trawl. February 27, 1960 1836.
- Co 669 NAGA 60 1103. Gulf of Thailand. 13°5.75'N 100°26.15'E 18m 16' otter trawl. December 13, 1960.
- Co 670 NAGA 60 1097. Gulf of Thailand. 12°39.3'N 100°15.75'E 29m 16' otter trawl. December 13, 1960.
- Co 683 NAGA 61 0247. Timor Sea. 10°55.7'S 129°5'E 33m Shell dredge. April 19, 1961.
- Co 695 NAGA 60 1106. Gulf of Thailand. 13°21.75'N 100°32.7'E 9m 16' otter trawl. December 14, 1960.
- Co 697 NAGA 60 0777. Nhatrang Bay. 12°9.7'N 109°24'E 93m 6' beam trawl. Sept. 20, 1960.
- Co 698 NAGA 60 1097. Gulf of Thailand. 12°39.3'N 100°15.75'E 29m 16' otter trawl. December 13, 1960.
- Co 701 NAGA 60 0237. South China Sea. 12°9.7'N 109°24.7'E 93m 10' beam trawl. March 4, 1960.
- Co 702 NAGA 60 0274. South China Sea. 10°16'N 107°56.5'E 33m 6' beam trawl. March 10, 1960.
- Co 706 NAGA 60 0863. Gulf of Thailand. 9°23.5'N 101°15.15'E 55m 6' beam trawl. November 11, 1960.
- Co 712 NAGA 60 0216. South China Sea. 15°40'N 109°43.5'E 479m 10' beam trawl. February 28, 1960.
- Co 717 NAGA 60 0127. Gulf of Thailand. 8°37'N 102°21.5'E 73m 40' otter trawl. January 24, 1960.
- Co 719 NAGA 60 0175. Gulf of Thailand. 12°4.5'N 100°46'E 27m 6' beam trawl. January 30, 1960.
- Co 724 NAGA 60 0212. South China Sea. 15°40'N 109°02'E 110-198m 10' beam trawl. February 27, 1960 1836.
- Co 728 NAGA 60 0264. South China Sea. 10°31.5'N 109°25'E 183m 10' beam trawl. March 9, 1960.

- Co 739 NAGA 60 0845. Gulf of Thailand. 12°54.5'N 100°26.5'E 20m 6' beam trawl. November 9, 1960.
- Co 745 NAGA 61 0252. Timor Sea. 10°25.3'S 128°28'E 77m Shell dredge. April 20, 1961.
- Co 780 NAGA 61 0253. Timor Sea. 10°15.9'S 128°44.3'E 56m Shell dredge. April 20, 1961.
- Co 803 NAGA 61 0221. Timor Sea. 11°29.5'S 124°39.8'E 192m Shell dredge. April 11, 1961.
- Co 804 NAGA 61 0226. Timor Sea. 11°0'S 125°33.8'E 342m Chain dredge. April 12, 1961.
- Co 807 NAGA 61 0250. Timor Sea. 10°57'S 128°42'E 34m Shell dredge. April 19, 1961.
- Co 814 NAGA 61 0246. Timor Sea. 10°56.3'S 129°25.9'E 71m Shell dredge. April 19, 1961.
- Co 822 NAGA 61 0192. Sunda Str. (Krakatoa), Java Sea. 6°11.2'N 105°29.3'E 91m Chain dredge. March 23, 1961.
- Co 838 NAGA 61 0222. Timor Sea. 11°29.5'S 125°20'E 102m Shell dredge. April 11, 1961.
- Co 865 NAGA 61 0245. Timor Sea. 10°56.3'S 129°36.25'E 28m Shell dredge. April 19, 1961.
- Co 872 NAGA 61 0249. Timor Sea. 10°54.75'S 128°49.75'E 34-82m Chain bag dredge. April 19, 1961.
- Co 903 Entrance to Bahia Tortugas, Baja Calif. Sur, Mexico. 8-17m SCUBA & hand collections. *Macrocystis* kelp community. August 4-6, 1980 Coll. Mia Tegner.
- Co 912 Student Cruise. Off Point Loma, San Diego, California. 32°35.5'N 117°20.2'W 91-101m Otter trawl. November 15, 1980 R/V E.B. Scripps. Coll. A. Fleminger.
- Co 982 SCII, Sta. 103. West of Patton Escarpment. 32°23'N 120°32'W 3970m 40' otter trawl. January 10, 1982 R/V N. Horizon. Coll. R.R. Wilson. Det. S. Cairns 4/92.
- Co 987 Port Aransas, Texas. Shore cast. April 18, 1982 Coll. Ralph Lewin.
- Co 988 SIO69-235. Boca de Animas, Baja California Sur, Mexico. 25°38'N 112°13'W 40m 16' otter trawl. April 19, 1969 Coll. D. Dockins.
- Co 992 Oconostota Sta. 1 haul 1 & 2. Off La Jolla, California. 32°52.2'N 117°17.4'W 73.2-Van Veen grab (0.18 m<sup>2</sup>). Fine silty mud. November, 1969 0550-0615. R/V Oconostota. Coll. F. Rokop, S. Luke.
- Co 993 M-15 OT-4. Off San Onofre, California. 33°13.5'N 117°30'W 91m 25' otter trawl. March 29, 1974 0530-0613. R/V Agassiz. Coll. T. Matsui.
- Co 994 M-15 OT-5. Off San Onofre, California. 33°16.5'N 117°30.5'W 27m 25' otter trawl. March 29, 1974 0703-0728. R/V Agassiz. Coll. T. Matsui.
- Co 995 M-15 OT-6. Off San Onofre, California. 33°16'N 117°31'W 54m 25' otter trawl. March 29, 1974 0753-0823. R/V Agassiz. Coll. T. Matsui.
- Co 996 Straight off Pt. La Jolla, San Diego, California. 101-183m 16' otter trawl #1. January 28, 1965 ST-908. Coll. Fager.
- Co 997 Haul 1092. 32°52.6'N 117°17.8'W 73m Sand & shells. June 19, 1906 0530.
- Co 998 Offshore from Canyon de Las Encinas. (Los Angeles?, California?). 26m June 1, 1967 Coll. Charles H. Turner - Fish & Game, Terminal Island.
- Co 1211 Benthic 06. S.W. of Tahiti. 19°20'S 150°55'W 800m Rock dredge #9. April 2, 1983 R/V Melville.
- Co 1216 Indomed 8. S.W. Indian Ridge. 36°38.7'S 52°6'E 808-975m Rock dredge #14. May 22, 1978 R/V Melville.
- Co 1246 M-15 OT-10. Santa Monica, California. 33°52.5'N 118°34'W 73m 25' otter trawl. March 29, 1974 2134-2208. R/V Agassiz. Coll. T. Matsui.
- Co 158 MV71-I-1. Isla de Afuera, Isla Guadalupe, Baja Calif. Norte, Mexico. 28°51.5'N 118°16.3'W 95-81m 6' Sigsbee trawl. May 18, 1971 1603-1615. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1683 SI50. La Jolla, California. 77-80m Gorgonians from Canyon Rim. October 2, 1965.

## PARAMURICEIDAE

### *Caligorgia sertosa* Wright & Struder

- Co 991 Albatross Sta. 4356. Point Loma Lighthouse, San Diego, California. N. 82° 30' E. 10 km. 220-240m 1904 Steamer Albatross.
- Co 1808 Albatross Sta. 4359. California Coast. 1904 Steamer Albatross.
- Co 1809 Albatross Sta. 4391. San Diego, California. 33°2'N 120°36'W 2468m 1904 Steamer Albatross.

### *Placogorgia* sp.

- Co 908 10 km. East of Makapuu Pt., Oahu, Hawaii. 21°19'N 157°34'W 366m Star II submersible. 1979 Star II. Coll. Boh Bartko.

### *Placogorgia* or *Astromuricea*

- Co 1224 Off Makapuu Point, Oahu Hawaii. 21°8'N 157°32'W 355m Malkalii submersible. March 16, 1982 Coll. B. Bartko, S. Coval. Det. K. Muzik.

### *Stenogorgia swiftia*

- Co 360 Haul 814. Albatross Sta. 5054. 1904.



## PLEXAURIDAE

- Co 594 TEPE 78-15. Isla Sacrificios, Oaxaca, Mexico. 15°40.8'N 96°14.6'W 13m SCUBA. April 7, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.

*Eunicea tourneforti* Milne-Edwards

- Co 571 New Providence, Bahamas. 25°5'N 77°25'W - SCUBA. summer 1956 Coll. C. Limbaugh.

*Eunicella* sp.

- Co 1228 Aboran Sea, S. Spain. August 4, 1975 Coll. A. Svoboda.

*Muricea atlantica* (Riess Ms-Kukenthal)

- Co 573 New Providence, Bahamas. 25°5'N 77°25'W - SCUBA. summer 1956 Coll. C. Limbaugh.

*Muricea californica* Aurivillius 1931

- Co 1598 145-34 (399-35). Albemarle Island, Galapagos, Ecuador. 2-3m.  
Co 1600 Quast Rock, La Jolla, California. 23m SCUBA. April 7, 1969 Coll. R. Kiwala.  
Co 1632 Quast, La Jolla, California. 20m December 1967 Coll. R. Grigg.  
Co 1641 Quast, La Jolla, California. 20m October 1966.

*Muricea fruticosa* Verrill 1869

- Co 161 566-36. Isla Tiberon, Golfo de California, Mexico. 37m.  
Co 1621 Quast, La Jolla, California. 20m December 1967 Coll. R. Grigg.

*Muriceopsis flavida* (Lamarck)

- Co 574 New Providence, Bahamas. 25°5'N 77°25'W - SCUBA. summer 1956 Coll. C. Limbaugh.

*Plexaura flexuosa* Lamouroux

- Co 569 New Providence, Bahamas. 25°5'N 77°25'W - SCUBA. summer 1956 Coll. C. Limbaugh.

*Plexaura homomalla* (Esper)

- Co 568 New Providence, Bahamas. 25°5'N 77°25'W - SCUBA. summer 1956 Coll. C. Limbaugh.

*Psammogorgia arbuscula* Verrill

- Co 361 Haul. 816. Albatross Sta. 4543. Pont Pinos Lighthouse, California. S. 25° E. 9 km. 170m Steamer Albatross.  
Co 181 Albatross Sta. 4441. Pont Pinos Lighthouse, California. N. 87° W. 2.8 km. 64m 1904 Steamer Albatross.

cf. *Psammogorgia* sp.

- Co 576 Baja 69-17. South of Punta Eugenia, Baja California Sur, Mexico. 27°43'N 115°7'W 86-91m Pipe dredge. February 24, 1969 R/V Oconostota.

*Psammogorgia simplex* Nutting

- Co 990 Haul 812. Albatross Sta. 4416. S.W. Rock, Santa Barbara Island, California. N. 49° W. 8 km. 820m 1904 Steamer Albatross.

## GORGONIIDAE

*Antillogorgia acerosa* (Pallas)

- Co 564 New Providence, Bahamas. 25°5'N 77°25'W - SCUBA. summer 1956 Coll. C. Limbaugh.

cf. *Adelogorgia* cf. *phyllosclera* Bayer

- Co 1686 Outside Pta. Tosco, Mexico. 23m Two different Gorgonians- one is Red-yellow. February 4, 1964.

*Eugorgia rubens* Verrill

- Co 1685 La Jolla Canyon, La Jolla, California. 47m March 4, 1959 Coll. R.J. Ghelardi, C. Limbaugh.

*Gorgonia auerosa*

- Co 1770 West Indies. w/Pyrgomatidae (C 6551). Ruse.

*Gorgonia flabellum* Linnaeus

- Co 565 New Providence, Bahamas. 25°5'N 77°25'W - SCUBA. summer 1956 Coll. C. Limbaugh.

*Leptogorgia hebes* (Verrill)

- Co 648 J-483. U.S.N.M. Acc. No. 212090  
Co 649 J-382. U.S.N.M. Acc. No. 212090

*Leptogorgia virgulata* (Lamarck)

- Co 650 J-483. U.S.N.M. Acc. No. 212090  
Co 651 J-382. U.S.N.M. Acc. No. 212090

*Lophogorgias* sp.

- Co 575 Off Anacapa Island, Channel Island, California. (Channel Island National Monument). 12-17m July 5, 1957 Coll. Abalone fisherpeople.

*Lophogorgia chilensis* (Verrill 1868)

- Co 1593 Cruise S1 49 A. 80m Collected at canyon rim. October 2, 1965 1200 Coll. R. Grigg.

*Pterogorgia citrina* (Esper)

- Co 567 New Providence, Bahamas. 25°5'N 77°25'W - SCUBA. summer 1956 Coll. C. Limbaugh.

## ISIDIDAE

- Co 768 NAGA 59 0131. Between Ko Lau & Ko Siehon, Gulf of Thailand. 13°1.75'N 100°50.5'E 3m 40' ott. Trawl. December 15, 1959 1108.
- Co 781 NAGA 61 0248. Timor Sea. 10°55.4'S 128°54.8'E 40m Shell dredge. April 19, 1961.
- Co 799 NAGA 61 0253. Timor Sea. 10°15.9'S 128°44.3'E 56m Shell dredge. April 20, 1961.
- Co 1217 Indomed 8. S.W. Indian Ridge. 36°38.7'S 52°6'E 808-975m Rock dredge #14. May 22, 1978 R/V Melville.
- Co 152 GLOR 07 MV. Dredge 24
- Co 1525 ARIES VII 54D. Milwakee Seamount Group. 32°17.4'N 172°47.7'E 732-375m Dredge. August 20, 1971 1200. R/V T. Washington. Coll. R.V. Mead.
- Acanella* sp.  
Co 1741 No data
- cf. *Keratoisis* sp.  
Co 488 STYX-7 MPE68095 Sta. 1. Hamilton Guyot. 18°29'N 179°17'W 1790m IKMT #4. September 5, 1968 0045-0720. R/V Agassiz. Coll. W. Newman.
- Co 1201 PROTEA 5 Sta. 28. Off tip of S. Africa. 43°22.4'S 39°52'E 2750-2400m Rock dredge. January 31, 1984 R/V Melville. Coll. R.L. Fisher.
- Co 1209 Benthic 1. North ridge of Lo Hi Seamount. 18°59'N 155°16'W 1769-1596m Rock dredge #4. October 25, 1982 1825-2003. R/V Melville.
- Co 1357 GLORIA Leg 4 14D. Wahoo Guyot 'C'. 15°10.25'S 135°5'E 620-398m Dredge 14D. January 28, 1993 0004-0040 Coll. Winterer. Det. F.M. Bayer, S. Cairns.
- Co 1475 Lusiad Exped. Sta. #17S-36. West of South Africa. 31°28'S 2°30'E 1496-1220m chain rock dredge. June 8, 1963 1509-1745. Coll. V. Vaquier.
- Co 1519 GLOR 04 MV. 600-400m Dredge 14
- Co 1559 CIRCE LEG X 250. 11°26'N 60°12'W 1134-1500m Rock Dredge. December 17, 1968 Coll. J. Coatsworth.
- Co 1599 CIRCE LEG X Sta. #251. 12°23'N 63°29'W 951-1097m Rock Dredge. December 18, 1968 Coll. J. Coatsworth.
- Co 1703 MV70-III-3. West of Patton Escarpment. 31°27'N 120°12'W 3880m 25' otter trawl. March 21, 1970 R/V Melville. Coll. F. Rokop, S. Luke.
- Co 1709 RED 67. Basilan Strait, Philippines. 6°50'N 122°5'E 108-112m August 31, 1961.
- Co 1713 Vermillion Sea Exped. VSS-54. North of Islas Tres Marias, Mexico. 22°6'N 106°29'W 730m May 18, 1959 R/V S.F. Baird.

- Co 1736 ROSA-01 DREDGE 5. Sara Ridge. 2000m March 23, 1993.
- Co 1737 ROSA-01 DREDGE 8. Sara Ridge. 2800-2300m March 25, 1993.
- Co 1738 ROSA-01 DREDGE 12. Rosana Ridge. 2700m March 26, 1993.

## PENNATULACEA

- Co 523 Seventow 123 D. East of Palmyra Island. 5°52.3'N 160°50.9'W 1604m Dredge. June 11, 1970 1753-1915. R/V T. Washington.
- Co 704 NAGA 60 0853. Gulf of Thailand. 10°4.15'N 100°19.15'E 55m 6' beam. November 10, 1960.
- Co 710 NAGA 60 0212. South China Sea. 15°40'N 109°02'E 110-198m 10' beam trawl. February 27, 1960 1836.
- Co 714 NAGA 59 0131. Between Ko Lau & Ko Siehon, Gulf of Thailand. 13°1.75'N 100°50.5'E 3m 40' ott. Trawl. December 15, 1959 1108.
- Co 716 NAGA 60 0127. Gulf of Thailand. 8°37'N 102°21.5'E 73m 40' otter trawl. January 24, 1960.
- Co 731 NAGA 60 0546. Nhatrang. 4°45'N 106°8'E 82m 6' beam trawl. June 22, 1960.
- Co 759 NAGA 60 0102. Gulf of Thailand. 12°33'N 100°44'E 27m 6' beam trawl. January 19, 1960.
- Co 731 NAGA 60 0546. Nhatrang. 4°45'N 106°8'E 82m 6' beam trawl. June 22, 1960.
- Co 771 NAGA 61 0253. Timor Sea. 10°15.9'S 128°44.3'E 56m Shell dredge. April 20, 1961.
- Co 837 NAGA 61 0222. Timor Sea. 11°29.5'S 125°20'E 102m Shell dredge. April 11, 1961.
- Co 842 NAGA 60 0175. Gulf of Thailand. 12°4.5'N 100°46'E 27m 6' beam trawl. January 30, 1960.
- Co 851 NAGA 60 0777. Nhatrang Bay. 12°9.7'N 109°24'E 93m 6' beam trawl. Sept. 20, 1960.
- Co 875 NAGA 61 0249. Timor Sea. 10°54.75'S 128°49.75'E 34-82m Chain bag dredge. April 19, 1961.
- Co 890 MV65-I-57. S.W. of Cabo San Lucas, Baja Calif. Sur, Mexico. 22°35'N 110°12'W 2889-2505m 6' Sigsbee trawl. June 29, 1965 2040-0540. R/V Horizon. Coll. C. Hubbs.
- Co 930 MET Sta. 129. West of Patton Escarpment. 32°22'N 120°42'W 3640-3740m 40' otter trawl. February 6, 1981 R/V N. Horizon. Coll. K. Smith, S. Luke.

- Co 958 NAGA 60 Sta. S11A-V343 61-243. Timor Sea. 10°42'S 130°11.5'E 24m Shell dredge. Reef. April 19, 1961 0243-0259.
- Co 1636 Inside Magdalena Bay, Baja California Sur, Mexico. 10m February 2, 1964.
- Co 1637 Mid Santa Margarita Island, Baja California Sur, Mexico. 22-23m Taken outside. February 3, 1964.
- H52-8. Off Tijuana River, San Diego, California. 32°31'N 117°12'W 38m Deep water dredge. February 26, 1952 R/V Horizon. Coll. John Isaacs.
- Co 1723 Haul 1782. 32°48.1'N 118°19.7'W 120m July 1, 1909 1534-1545.

### VERETILLIDAE

- Co 703 NAGA 60 0316. Gulf of Thailand. 9°46.25'N 100°10.5'E 22m 6' beam trawl. April 22, 1960.
- Co 774 NAGA 60 0853. Gulf of Thailand. 10°4.15'N 100°19.15'E 55m 6' beam. November 10, 1960.

### *Cavernularia darwini* Hickson 1921

- Co 64 P-210-60. Cabo Lobos, Sonora, Mexico. 29°50.9'N 112°49'W 73-77m Shell dredge. March 30, 1960 1550. Coll. R. Parker.
- Co 412 6108B-52. Bahia Banderas, Mexico. 20°41'N 105°23'W 63-65m 10' otter trawl #73. August 21, 1961 1715-1745. R/V Black Douglas. Coll. F.H. Berry.
- Co 1190 TOADHOP-I Sta. 8. Off Boca del Tule, Baja Calif. Sur, Mexico. 23°11.5'N 109°23.5'W 88-91m 25' otter trawl. July 15, 1984 1240-1320. R/V E.B. Scripps. Coll. R. Rosenblatt.
- Co 1191 TOADHOP-I Sta. 11. North of Punta Gorda, Baja Calif. Sur, Mexico. 23°5'N 109°26'W 106m 25' otter trawl. July 15, 1984 1745-1850. R/V E.B. Scripps. Coll. R. Rosenblatt.
- Co 1483 SIO63-169 haul #3,#4. Melpomene Cove, Isla Guadalupe, Baja Calif. Norte, Mexico. 28°53'N 118°16.7'W 24-31m Tri-net. April 22, 1963 R/V Horizon. Coll. C. Hubbs.
- Co 1486 MV68-I-9. East of Punta Gorda, Baja Calif. Sur, Mexico. 23°4'N 109°28.5'W 97-187m 41' otter trawl. January 10, 1968 1234-1401. R/V T. Washington. Coll. C. Hubbs.
- Co 1488 MV71-I-14. Lobster Camp on E. side of Isla Guadalupe, Baja Calif. Norte, Mexico. 20°0.1'N 118°13.6'W 0-27m Quialdine & SCUBA. May 21, 1971 R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1489 SIO 70-46. N.E. Anchorage, Guadalupe Island, Baja California, Mexico. 13m Hook & Line. January 21, 1970 F.G. Hochberg 5/96.
- Co 1497 Off Old Penal Colony, N.E. side of Guadalupe Island, Mexico. 50m Mud bottom. Living color- orange. Coll. Carl Boyd. Det. F.G. Hochberg 5/96.

- Co 1498 MV73-I-23. E.S.E. of Punta Telmo near Punta Lizardo, Michoacan, Mexico. 18°6.5'N 102°59'W 75-70m 40' otter trawl. April 4, 1973 1810-1838. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1500 SIO 70-50. Melpomene Cove, Guadalupe Island, Baja California, Mexico. 18m Hook & Line. January 22, 1970 Coll. Hubbs & party. Det. F.G. Hochberg 5/96.
- Co 1501 Cruise 6008B- Sta. 123.37. San Cristobal Bay, Baja California, Mexico. 27°24'N 114°40'W 73m Otter Trawl. August 20, 1960 1800-1820 F.G. Hochberg 5/96.
- Co 1513 SIO 63-169 Haul 2. Melpomene Cove, Isla Guadalupe, Baja California Norte, Mexico. April 22, 1963 Coll. Carl L. Hubbs & party. Det. F.G. Hochberg 5/96.
- Co 1693 MV71-I-1. Isla de Afuera, Isla Guadalupe, Baja Calif. Norte, Mexico. 28°51.5'N 118°16.3'W 95-81m 6' Sigsbee trawl. May 18, 1971 1603-1615. R/V Agassiz. Coll. C. Hubbs, S. Luke.

### RENILLIDAE

#### *Renilla* sp.

- Co 434 H51-35. S. side of Bahia Todos Santos, Baja Calif. Norte, Mexico. 31°45'N 116°40'W 3m Close to sand beach. February 6, 1951 R/V Orca. Coll. C. Hubbs.
- Co 446 El Golfo II BT-156. Off Punta San Telmo, Michoacan, Mexico. 18°27.3'N 103°36'W 30-33m 20' otter trawl. June 3, 1965 1618-1700. Coll. T. Matsui.
- Co 462 El Golfo II BT-157. Guerrero, Mexico. 17°34'N 101°31.2'W 27-49m 20' otter trawl. June 4, 1965 0617-0641. Coll. T. Matsui.
- Co 579 TEPE 78-9. Off Punta Amapala, Golfo de Fonseca, El Salvador. 13°1.14'N 88°1'W 42m 16' otter trawl. Mud. April 4, 1978 1948-2030. R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 585 TEPE 78-13. Off Salina Cruz, Oaxaca. 16°0'N 95°10.2'W 42m 16' otter trawl. April 6, 1978 2115-2140. R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 1466 MV73-I-96. S.S.W. of Punta Judas, Costa Rica. 9°27.5'N 84°31'W 31m 25' otter trawl. April 22, 1973 1938-2011. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1471 MV73-I-95. East of Punta Judas, Costa Rica. 9°28'N 84°23'W 26-24m 25' otter trawl. April 22, 1973 1807-1838. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1472 El Golfo II BT-152. Off Jalisco, Mexico. 20°14.6'N 105°36.5'W 32m 20' otter trawl. June 3, 1965 1747-1807. Coll. T. Matsui.
- Co 1473 MV73-I-38. N.E. shore of Golfo de Tehuantepec, Oaxaca, Mexico. 15°30.7'N 93°22.8'W 22m 40' otter trawl. April 10, 1973 0817-0842. R/V Agassiz. Coll. C. Hubbs, S. Luke.

- Co 148 Port Aransas, Texas. Trauled in shallow gulf. January 2, 1967.
- Co 1543 MV73-I-66. West of Punta Amalpa, Golfo de Fonseca, El Salvador. 13°6.7'N 88°5.5'W 18m 40' otter trawl. April 17, 1973 1122-1153. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1544 MV73-I-14. N. Part of Bahia Chamela, Jalisco, Mexico. 19°34'N 105°8'W 27-18m 40' otter trawl. Soft sand. April 2, 1973 1558-1617. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1545 MV73-I-65. S.W. of Punta Ampala, El Salvador. 13°5.5'N 87°59'W 24-29m 40' otter trawl. April 17, 1973 0906-0940. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1546 MV73-I-22. E.S.E. of Punta Telmo near Punta Lizardo, Michoacan, Mexico. 18°7'N 102°57'W 22-24m 40' otter trawl. Sand. April 4, 1973 1536-1602. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1547 MV73-I-15. N. Bahia Chamela. 19°34.2'N 105°7.6'W 15-18m 40' otter trawl. Sand off shore of mangrove lagoon. April 2, 1973 1703-1718. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1548 MV73-I-67. Northern Nicaragua. 12°42.5'N 87°46'W 58-53m 40' otter trawl. April 17, 1973 1646-1721. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 156 El Golfo II BT-164. Near Salina Cruz, Oaxaca, Mexico. 16°3.6'n 95°19'W 44m 20' otter trawl. June 7, 1965 0242-0310. Coll. T. Matsui.
- Co 1563 SIO 63-502 C-4. Golfo de Tehuantepec, Mexico. 31-35m July 8, 1963.
- Co 1568 Sta. J51. Gulf of Mexico. Otter Trawl. Clay bottom. September 29, 1953 Coll. Parker.
- Co 1569 SIO 63-522 G-5. Golfo de Tehuantepec. 27-9m July 15, 1963.
- Co 1573 SIO63-169 haul #3,#4. Melpomene Cove, Isla Guadalupe, Baja Calif. Norte, Mexico. 28°53'N 118°16.7'W 24-31m Tri-net. April 22, 1963 R/V Horizon. Coll. C. Hubbs.
- Co 1708 El Golfo II BT 155. Bahia Navidad, Jalisco, Mexico. 19°12'N 104°42'W 17m 20' otter trawl. June 3, 1965 Coll. T. Matsui.
- Co 171 FB62-41. Viejo to Garachino, Panama. February 1, 1959.

***Renilla kollikeri* Pfeffer 1866**

- Co 1565 San Diego Bay, San Diego County, California. January 28, 1953 Coll. Paul W. Johnson.

**ANTHOPTILIDAE**

- Co 515 SS-72, 140-DB. South of Kauai, Hawaii. 21°49.54'N 159°23.85'W 732m Dredge box. July 10, 1972 R/V Sea Scope.

***Anthoptilum grandiflorum***

- Co 425 SIO76-96. North of Catalina Island, California. 33°33.4'N 118°38'W 556-585m 40' otter trawl. Mud. March 9, 1976 0922-1105. R/V Agassiz. Coll. S. Luke.
- Co 1465 M-15 OT-22. Off Del Mar, California. 32°59'N 117°38'W 920m 25' otter trawl. April 4, 1974 1524-1745. R/V Agassiz. Coll. T. Matsui.
- Co 153 Oconostota trawl #10. La Jolla, California. 32°52'N 117°36.5'W 896m 16' otter trawl. September 6, 1974 0040-0220. R/V Oconostota. Coll. J.F. Siebenaller.

**PROTOPTILIDAE**

***Distichoptilum gracile* sp.**

- Co 472 MV72-II-26. Off Arica, Chile. 18°42'S 70°37'W 1097-1152m 25' otter trawl. Mud. May 7, 1972 R/V T. Washington. Coll. S. Luke.
- Co 535 MV65-I-31. Off Bahia San Hipolito, Baja Calif. Sur, Mexico. 26°31'N 114°15'W 2054-2136m 45' otter trawl. June 22, 1965 1035-1503. R/V Horizon. Coll. C. Hubbs.

***Distichoptilum gracile* Verrill 1882**

- Co 1522 M-7 Sta. 3. San Clemente Basin. 32°28'N 118°8'W 1792-1866m 40' otter trawl. September 16, 1971 0236-0730. R/V Agassiz. Coll. T. Matsui.
- Co 1694 Off Central America. 12°34'N 93°20'W -. Surface. On loose Japanese long line buoy with *Planes minutus*. April 26, 1972 Lois Seaver I. Coll. C.W. Oliver.

**STACHYPTILIDAE**

***Stachyptilum superbum* Studer 1894**

- Co 1551 Afterthot II A-27. Encinitas, California. 33°0'N 117°34.4'W 7508m 25' otter trawl. May 9, 1975 0955-1017. R/V Agassiz. Coll. J.F. Siebenaller.
- Co 1806 Albatross Sta. 4427. Point San Pedro, Santa Cruz Island, California. N. 35° E. 10 km. 818m 1904 Steamer Albatross.

**SCLEROPTILIDAE**

***Scleroptilum grandiflorum* Kolliker**

- Co 61 Baja Slope Exped. BS-1. S.W. of Cabo Colnett, Baja Calif. Norte, Mexico. 30°49'N 116°51'W 1986-1975m 30' otter trawl. April 28, 1961 2205-0245. Coll. C. Boyd & R. Parker.

## CHUNELLIDAE

- Co 485 STYX-7 MPE68094 Sta. 3. Hamilton Guyot. 18°15'N 179°12'W 1719m Pipe dredge #9. September 4, 1968 R/V Agassiz. Coll. W. Newman.
- Co 490 STYX-7 MPE68096 Sta. 1. Agassiz Guyot. 18°2'N 178°23'E 1673-1975m Rock dredge #10. Cretaceous? reef fauna - fossil. September 6, 1968 1235-1800. R/V Agassiz. Coll. W. Newman.
- Co 506 SS-72 41-DB. Central E. Pacific Ocean. 12°31.81'N 122°27.5'W 4481m Dredge box. Mud, nodules, basalt. April 14, 1972 2010-0015. R/V Sea Scope. Coll. Global Marine Development.
- Co 522 SS-72 6-DB. S.W. of Clarion Island. 13°40.43'N 122°18.4'W 4252m Dredge box. February 13, 1972 1417-1721. R/V Sea Scope. Coll. Global Marine Development.
- Co 524 Seventow 123 D. East of Palmyra Island. 5°52.3'N 160°50.9'W 1604m Dredge. June 11, 1970 1753-1915. R/V T. Washington.
- Co 525 50P. 14°18'N 125°48'W 4371m Spade core. September 15, 1975 Coll. R. Dick.
- Co 844 NAGA 60 0216. South China Sea. 15°40'N 109°43.5'E 479m 10' beam trawl. February 28, 1960.
- Co 951 MV73-I-81. South of Pta. Guiones, Costa Rica. 9°34'N 85°41'W 1157-1454m 10' IKMT on bottom. April 20, 1973 1350-1755. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 952 E. Pacific. 4572m Box core. Manganese nodule ship Kennecott Exploration Inc., Del Mar, California. Coll. E. Habecker.
- Co 981 SCII, Sta. 103. West of Patton Escarpment. 32°23'N 120°32'W 3970m 40' otter trawl. January 10, 1982 R/V N. Horizon. Coll. R.R. Wilson.
- Co 1205 Rise Exped. Alvin Dive #924 B-1. 210N rift vent, near tip of Baja Calif. Sur, Mexico. 20°57.1'N 109°18'W 2740m Submersible Alvin. Scraped off rocks. May 10, 1979 R/V New Horizon. Coll. T. Atwater.
- Co 122 Indomed 8. S.W. Indian Ridge. 36°38.7'S 52°6'E 808-975m Rock dredge #14. May 22, 1978 R/V Melville.
- Co 1529 E. side of Guadalupe Island, Baja California Norte, Mexico. 366m Snagged on bottom while electric reel fishing. May 2, 1965 Coll. R.L. Wisner.
- Co 492 STYX-7 MPE68097 Sta. 4. Agassiz Guyot. 18°0'N 178°15'E 1582-1617m 5' sigsbee trawl #3. September 7, 1968 2030-0030. R/V Agassiz. Coll. W. Newman.
- Co 639 Baja Slope Exped. BS-14. Cedros Trough, off Punta Eugenia, Baja Calif. Sur, Mexico. 27°12'N 115°20'W 4188-4161m 10' beam trawl. Silty clay. May 6-7, 1961 1635-0040. Coll. R. H. Parker.
- Co 640 MV67-II-22. S.W. of Farallon Island, & West of Pioneer Seamount, California. 37°18'N 123°53.3'W 3592-3799m 41' otter trawl. June 14-15, 1965 1858-0220. R/V T. Washington. Coll. C. Hubbs.
- Co 644 MV65-I-39. Basin off Bahia Magdalena, Baja Calif. Sur, Mexico. 24°25'N 113°18'W 3427-3621m 45' otter trawl. June 25, 1965 0009-0746. R/V Horizon. Coll. C. Hubbs.
- Co 889 MV65-I-57. S.W. of Cabo San Lucas, Baja Calif. Sur, Mexico. 22°35'N 110°12'W 2889-2505m 6' Sigsbee trawl. June 29, 1965 2040-0540. R/V Horizon. Coll. C. Hubbs.
- Co 1245 Papatua-5. North of North Island, New Zealand. 34°28.8'S 178°52.3'E 2500m Rock dredge 41 (D-5). February 12, 1986 1037. R/V T. Washington.
- Co 1537 MV73-I-81. South of Pta. Guiones, Costa Rica. 9°34'N 85°41'W 1157-1454m 10' IKMT on bottom. April 20, 1973 1350-1755. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1552 MV65-I-4. N.W. of N. tip of Isla Cedros, Baja Calif. Norte, Mexico. 28°49'N 115°44'W 1536-1511m 6' Sigsbee trawl. June 10, 1965 2016-2201. R/V Horizon. Coll. C. Hubbs.

*Ombellula sp.*

- Co 480 STYX-7 MPE68091 Sta. 3. Hess Guyot. 17°53.1'N 174°23'W 1763-1719m Sigsbee trawl. September 1, 1968 0900-1250. R/V Agassiz. Coll. W. Newman.
- Co 489 STYX-7 MPE68095 Sta. 2. Hamilton Guyot. 18°36'N 179°35'W 1472-1582m 25' otter trawl. On anemones and on scalpellids. September 5, 1968 1820-2340. R/V Agassiz. Coll. W. Newman.
- Co 507 SS-72 96-DB. N. Mid-Pacific. 31°20'N 174°1'W 5401m Dredge box. June 15, 1972 R/V Sea Scope.
- Co 518 SS-72 104-DB. N. Pacific Ocean. 31°58.4'N 177°19.55'W 5194m Dredge box. Mud, pumice, manganese. June 19, 1972 0320-0645. R/V Sea Scope. Coll. Global Marine Development.
- Co 1187 Panama Basin, Panama. 5°9.8'N 81°41.2'W 3900-4000m 40' otter trawl. October 8, 1981 R/V Melville. Coll. K. Smith.
- Co 1715 SIO67-103. South of Davidsons Seamount. 35°N 122°49'W 3908-3972m June 10, 1967.
- Co 479 STYX-7 MPE680828 Sta. 2. Horizon Guyot. 19°17.5'N 168°52'W 1716-1683m 25' otter trawl. August 28, 1968 0635-1145. R/V Agassiz. Coll. W. Newman.

## OMBELLULIDAE

*Ombellula cf. Lindalhi* Kolliker

Co 965 Sta. 64D. 3 km. S. West of Cape Armitage, Antarctica. 77°52'S 166°40'E 550m Rocks & gravel. January 22, 1964 Coll. P.K. Dayton. Det. J.H. Dearborn.

*Ombellula lindalhi* Kolliker 1874

Co 476 STYX-7 MPE68026 Sta. 2. Horizon Guyot. 19°29'N 168°45'W 1662-1820m 25' Marinovich otter trawl #1. August 26, 1968 1347-1820. R/V Agassiz. Coll. W. Newman.

*Ombellula magniflora* Kolliker 1880

- Co 422 SIO76-95. North of Catalina Island, California. 33°33.5'N 118°38.5'W 585-534m 40' otter trawl. Mud. March 9, 1976 0450-0630. R/V Agassiz. Coll. S. Luke. Det. F. Hochberg.
- Co 426 SIO76-96. North of Catalina Island, California. 33°33.4'N 118°38'W 556-585m 40' otter trawl. Mud. March 9, 1976 0922-1105. R/V Agassiz. Coll. S. Luke.
- Co 638 M-15 OT-12. Point Piedras Blancas, California. 35°32'N 121°40'W 906m 25' otter trawl. April 1, 1974 0240-0510. R/V Agassiz. Coll. T. Matsui.
- Co 1553 ANTI-I-7D. 35°20'N 121°38'W 1258-1036m Dredge. June 18, 1970 R/V Melville. Coll. Liebertz.

## VIRGULARIIDAE

- Co 382 MV71-I-1. Isla de Afuera, Isla Guadalupe, Baja Calif. Norte, Mexico. 28°51.5'N 118°16.3'W 95-81m 6' Sigsbee trawl. May 18, 1971 1603-1615. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 415 40 Mile Bank, San Diego, California. 32°43'N 118°12'W 110m Dredge. March 22, 1938 "E.W. Scripps". Coll. F.P. Shepard.
- Co 429 H51-27. Bahia Todos Santos, Baja Calif. Norte, Mexico. 31°45'N 116°40'W 37m Dredge. February 5, 1951 R/V Orca. Coll. C. Hubbs.
- Co 455 Off Coal Oil Point, Goleta, California. 34°40'N 119°50'W 90-110m Beam trawl. June 4, 1954.
- Co 473 MV72-II-26. Off Arica, Chile. 18°42'S 70°37'W 1097-1152m 25' otter trawl. Mud. May 7, 1972 R/V T. Washington. Coll. S. Luke.
- Co 533 MV68-I-76. East of Isla Carmen on W. slope of Carmen Basin, Baja Calif. Sur, Mexico. 25°56'N 110°35'W 1321-1344m 25' otter trawl. January 22, 1968 1744-2115. R/V T. Washington. Coll. C. Hubbs.
- Co 772 NAGA 60 0777. Nhatrang Bay. 12°9.7'N 109°24'E 93m 6' beam trawl. Sept. 20, 1960.
- Co 775 NAGA 60 0863. Gulf of Thailand. 9°23.5'N 101°15.15'E 55m 6' beam trawl. November 11, 1960.
- Co 911 Student Cruise. Off Point Loma, San Diego, California. 32°35.5'N 117°20.2'W 91-101m Otter trawl. November 15, 1980 R/V E.B. Scripps. Coll. A. Fleminger.
- Co 943 MET Sta. 133. West of Patton Escarpment. 32°25'N 120°40'W 3689-3632m 40' otter trawl. February 7, 1981 R/V N. Horizon. Coll. K. Smith, S. Luke.
- Co 1468 CalCofi 74126/II OT-5. Piedras Blancas, California. 35°38'N 121°44.5'W 915m 16' otter trawl #5. December 10, 1974 0650-0933. R/V Agassiz. Coll. T. Matsui.
- Co 1474 6008 B-12337. San Cristobal Bay, Baja. 27°24'N 114°40'W 73m Otter Trawl. August 20, 1960 1800-1820.
- Co 1477 MV 68-I-64. Golfo de California, S.E. of San Felipe. 219m 25' Otter Trawl. January 19, 1968 Coll. C. Hubbs, T. Cukr.
- Co 1478 MV68-I-35. Bahia Santa Inez, Baja Calif. Sur, Mexico. 26°56'N 111°58'W 37m Otter trawl. January 14, 1968 1120-1135. R/V T. Washington. Coll. C. Hubbs.
- Co 1479 RR65-38. W. side of Isla Monserrate, Baja Calif. Sur, Mexico. 25°39'N 111°4.7'W -40' otter trawl. July 11, 1965 Coll. R. Rosenblatt.
- Co 1516 B6203-9. Catalina Island, California. Trawl #TR51. March 22, 1962 Coll. Berry & Perkins.
- Co 1524 M-15 OT-15. Morro Bay, California. 35°12'N 121°2'W 99m 25' otter trawl. April 2, 1974 0250-0419. R/V Agassiz. Coll. T. Matsui.
- Co 1527 MV68-I-34. Bahia Santa Inez, Baja Calif. Sur, Mexico. 26°56'N 111°55.5'W 42-49m Otter trawl. January 14, 1968 1014-1050. R/V T. Washington. Coll. C. Hubbs.
- Co 1528 MV65-I-67. Canal de Cerralbo, on W. side off Punta Gorda, Baja Calif. Sur, Mexico. 24°11'N 109°59'W 81-84m 45' otter trawl. July 2, 1965 1637-1745. R/V Horizon. Coll. C. Hubbs.
- Co 1531 M-15 OT-8. N. of Dana Point, California. 33°32.5'N 117°48.6'W 53-48m 25' otter trawl. March 29, 1974 1215-1239. R/V Agassiz. Coll. T. Matsui.
- Co 1532 MV71-I-2. Isla de Afuera, Isla Guadalupe, Baja Calif. Norte, Mexico. 28°52'N 118°15'W 102-99m 6' Sigsbee trawl. May 18, 1971 1900-1912. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1533 M-15 OT-12. Point Piedras Blancas, California. 35°32'N 121°40'W 906m 25' otter trawl. April 1, 1974 0240-0510. R/V Agassiz. Coll. T. Matsui.
- Co 1536 MV73-I-94. Middle of mouth of Gofa de Nicoya, Costa Rica. 9°36'N 84°51'W 86m 25' otter trawl. April 22, 1973 R/V Agassiz. Coll. C. Hubbs, S. Luke.

- Co 155 MV68-I-65 A & B. East of Angel de La Guarda, Golfo de California, Mexico. 29°20.2'N 113°11.5'W 265-284m 25' otter trawl. January 20, 1968 0635-1000. R/V T. Washington. Coll. C. Hubbs.
- Co 162 ca. 1 mile off Pt. Loma, California. 37m PS Dredge. Shell-sand bottom. October 21, 1954 0930.
- Co 1695 M-15 OT-2. Off Encinitas, California. 33°2'N 117°19'W 51m 25' otter trawl. On aluminum beer can. March 29, 1974 0220-0245. R/V Agassiz. Coll. T. Matsui.
- Co 1700 MB-6904-6 TR #151. 10 km. North of Cabo Lobos, Baja California Norte, Mexico. 29°59'N 112°53'W 91m 17' Otter trawl. April 26, 1969 Coll. Moser.
- Co 1702 acc. 1290. Forty Mile Bank, San Diego, California. 32°43'N 118°12'W 102m Dredge. March 22, 1968 'E.W. Scripps'. Coll. Shepard.
- Co 1731 H52-124. Bahia Vizcaino, Baja California, Mexico. 73m Poipe stem drdge

### *Acanthoptilum* sp.

- Co 1467 M-15 OT-18. Vandenburg Missile Base, Lompoc, California. 34°46.2'N 120°43.2'W 70m 25' otter trawl. April 2, 1974 1102-1144. R/V Agassiz. Coll. T. Matsui.
- Co 1505 CalCofi 74126/II OT-4. Piedras Blancas, California. 35°48'N 121°25.5'W 73m 16' otter trawl #4. December 10, 1974 0329-0410. R/V Agassiz. Coll. T. Matsui.
- Co 1521 M-15 OT-17. Point Sal, California. 34°53'N 120°49'W 132m 25' otter trawl. April 2, 1974 0857-0950. R/V Agassiz. Coll. T. Matsui.
- Co 1726 MV67-II-13. Off Monterey Bay, California. 36°49'N 122°5'W 99-101m 41' otter trawl. June 12, 1967 1449-1557. R/V T. Washington. Coll. C. Hubbs.
- Co 1727 M-15 OT-16. Pismo Beach, California. 35°6'N 120°46.6'W 70m 25' otter trawl. April 2, 1974 0700-0735. R/V Agassiz. Coll. T. Matsui.

### *Acanthoptilum album* Nutting 1909

- Co 1801 Albatross Station 4439. Point Pinos Lighthouse, Monterey Bay, California. S. 38° E. 10 km. 77-73m Steamer Albatross.
- Co 1805 Albatross Station 4460. Point Pinos Lighthouse, Monterey Bay, California. S. 12° E. 17 km. 101-123m 1904 Steamer Albatross.

### *Balticina pacifica* Nutting 1909

- Co 1802 Albatross Sta. 4433. Brockway Point, Santa Rosa Island, California. S. 10° E. 12 km. 485-444m 1904 Steamer Albatross.
- Co 1807 Albatross Sta. 4435. Harris Point, San Miguel Island, California. S. 13° W. 12 km. 524-501m 1904 Steamer Albatross.

### *Haliscyprum cystiferum* Nutting 1909

- Co 359 Haul 806. Albatross Sta. 4514. Pt. Pinos Lighthouse. S. 39° E. 17 km. 720-958m 1904.

### *Stylatula elongata* sp.

- Co 295 MV67-II-12. Outside Monterey Bay, California. 36°53'N 122°5'W 68m 41' otter trawl. June 12, 1967 1235-1323. R/V T. Washington. Coll. C. Hubbs.
- Co 439 H52-122. Sebastian Vizcaino Bay, Baja Calif. Sur, Mexico. 27°54'N 114°52.4'W 55m Pipe stem dredge. August 11, 1952 1245. R/V Paolina-T. Coll. K.S. Norris.

### *Stylatula elongata* Verrill 1864

- Co 1469 M-15 OT-16. Pismo Beach, California. 35°6'N 120°46.6'W 70m 25' otter trawl. April 2, 1974 0700-0735. R/V Agassiz. Coll. T. Matsui. Det. F.G. Hochberg 5/96.
- Co 1535 H49-35. Off S. Coronado Island, Baja Calif. Norte, Mexico. 32°25'N 117°14.5'W 29-23m CAS dredge. April 23, 1949 1039-1056. R/V Orca. Coll. C. Hubbs. Det. F.G. Hochberg 5/96.
- Co 1542 SIO 64-893. Bahia Asuncion, Baja California Sur, Mexico. 68-64m Otter Trawl. November 17, 1964 R/V Black Douglas. Det. F.G. Hochberg 5/96.
- Co 1728 CalCofi 74126/II OT-4. Piedras Blancas, California. 35°48'N 121°25.5'W 73m 16' otter trawl #4. December 10, 1974 0329-0410. R/V Agassiz. Coll. T. Matsui. Det. F.G. Hochberg 5/96.
- Co 1549 M-15 OT-9. Off Long Beach, California. 33°53.3'N 118°8'W 49m 40' otter trawl. On beer bottle. March 29, 1974 1512-1543. R/V Agassiz. Coll. T. Matsui. Det. F.G. Hochberg 5/96.
- Co 1803 Albatross Station 4448. Point Pinos Lighthouse, Monterey Bay, California. S. 26° E. 5 km. 84m Steamer Albatross.

### *Virgularia* sp.

- Co 1729 MV73-I-23. E.S.E. of Punta Telmo near Punta Lizardo, Michoacan, Mexico. 18°6.5'N 102°59'W 75-70m 40' otter trawl. April 4, 1973 1810-1838. R/V Agassiz. Coll. C. Hubbs, S. Luke.

## HALIPTERIDAE

- Co 1699 B-6411-34. Cortes Bank, San Diego, California. 32°25'N 119°4'W 110-146m Set line. November 19, 1964 0915-1115.

### *Halipterus californica* (Moroff 1902)

- Co 296 MV67-II-13. Off Monterey Bay, California. 36°49'N 122°5'W 99-101m 41' otter trawl. June 12, 1967 1449-1557. R/V T. Washington. Coll. C. Hubbs. Det. F.G. Hochberg 5/96.

- Co 897 SnaFu SIO80-9. Off San Diego, California. 32°43'N 117°24.4'W 402-421m 25' otter trawl. February 29, 1980 1215-1300. R/V New Horizon. Coll. R. Rosenblatt. Det. F.G. Hochberg 5/96.
- Co 918 MET Sta. 104. Catalina Basin, California. 32°23.6'N 120°35'W 550-640m 25' otter trawl. Mud. January 29, 1981 20-35-2200. R/V New Horizon. Coll. Ken Smith, S. Luke. Det. F.G. Hochberg 5/96.
- Co 147 M-6 Sta. 2. La Jolla Canyon. 32°52'N 117°32'W 732-860m 25' otter trawl. August 13, 1971 0120-0430. R/V Agassiz. Coll. T. Matsui. Det. F.G. Hochberg 5/96.
- Co 1576 Coronado Bank. 180m Diving saucer. December 22, 1964 Coll. A.O. Flechsig. Det. F.G. Hochberg 5/96.
- Co 1633 S-28 (#2 of 2). Coos Bay, Oregon. Coll. D. Jensen. Det. F.G. Hochberg 5/96.
- Co 164 Off La Jolla Hotel, La Jolla, California. 80m Caught off Kelp beds. February 6, 1957 Sea Biscuit. F.G. Hochberg 5/96.
- Co 1701 Coronado Bank, San Diego, California. 325m Rockfish set line. November 1967 Coll. Joe Desanti. Det. F.G. Hochberg 5/96.
- Co 1815 M-15 OT-5. Off San Onofre, California. 33°16.5'N 117°30.5'W 27m 25' otter trawl. March 29, 1974 0703-0728. R/V Agassiz. Coll. T. Matsui. Det. F.G. Hochberg 5/96.
- Co 1865 M-15 OT-13. Point Piedras Blancas, California. 35°35'N 121°28'W 567-603m 25' otter trawl. April 1, 1974 1838-2040. R/V Agassiz. Coll. T. Matsui. Det. F.G. Hochberg 5/96.

## PENNATULIDAE

- Co 407 Sea Breeze SB 51. Tombola at S.W. tip of Isla San Jose, Baja Calif. Sur, Mexico. 24°45'N 110°35'W - Intertidal. April 14-15, 1960 R/V Orca. Coll. A. Flechsig & Clutter.
- Co 1644 La Paz. Baja. 1959 1512-1959 Coll. Lemeche.

### *Pennatula* sp.

- Co 367 MV72-II-32. Off Punta San Juan, Peru. 15°47'S 76°7'W 3475m 25' otter trawl. Mud. May 10, 1972 R/V T. Washington. Coll. S. Luke.
- Co 1564 Australia; N. Queensland; Princess Charlotte Bay, 2 mi. offshore (see notes). 8m Otter Trawl. September 29, 1966.
- Co 1581 MV 67-II-4. Off Central California, South of Davidson Seamount. June 10, 1967 R/V Washington.
- Co 1668 R-9. Tanner Basin. 32°50'N 119°32.5'W 1397m 25' otter trawl. Mud. October 28, 1970 1800-2100. R/V Agassiz. Coll. F. Rokop, S. Luke.

- Co 1698 Sta. 26. Gulf of California. 1248m Mud. March 3, 1939 Coll. M.W. Johnson.
- Co 1716 MV65-I-26. Off Bahia San Cristobal, Baja Calif. Sur, Mexico. 27°8'N 115°9'W 4085-4096m 10' IKMT on bottom. June 21, 1965 0501-0706. R/V Horizon. Coll. C. Hubbs.

### *Pennatula californica* Kukenthal

- Co 1811 R-9. Tanner Basin. 32°50'N 119°32.5'W 1397m 25' otter trawl. Mud. October 28, 1970 1800-2100. R/V Agassiz. Coll. F. Rokop, S. Luke.
- Co 1812 R-24. Tanner Basin. 32°44'N 119°27'W 1317-1362m 25' otter trawl. Mud. January 20, 1971 1658-2017. R/V Agassiz. Coll. F. Rokop.
- Co 1813 R-27. Tanner Basin, California. 32°48'N 119°31.5'W 1390-1372m 25' otter trawl. Mud. January 21, 1971 0430. R/V Agassiz. Coll. F. Rokop.
- Co 1814 R-41. Tanner Basin, California. 32°48'N 119°29'W 1390m 25' otter trawl. July 13, 1971 1040-1243. R/V Agassiz. Coll. F. Rokop.

### *Pennatula californica* Kukenthal 1913

- Co 424 SIO76-96. North of Catalina Island, California. 33°33.4'N 118°38'W 556-585m 40' otter trawl. Mud. March 9, 1976 0922-1105. R/V Agassiz. Coll. S. Luke. Det. F. Hochberg 5/96.
- Co 989 R-36. San Diego Trough. 32°26'N 117°27'W 1241-1190m Epibenthic sled. Mud. April 20, 1971 R/V Agassiz. Coll. F. Rokop. Det. F. Hochberg 5/96.
- Co 1484 MV68-I-76. East of Isla Carmen on W. slope of Carmen Basin, Baja Calif. Sur, Mexico. 25°56'N 110°35'W 1321-1344m 25' otter trawl. January 22, 1968 1744-2115. R/V T. Washington. Coll. C. Hubbs. Det. F. Hochberg 5/96.
- Co 1487 Oconostota trawl #7. Tanner Basin, California. 32°43'N 119°31.3'W 1200-1300m 16' otter trawl. September 5, 1974 0110-0405. R/V Oconostota. Coll. J.F. Siebenaller. Det. F. Hochberg 5/96.
- Co 1504 Oconostota trawl #6. Tanner Basin, California. 32°48'N 119°30.5'W 1362m 16' otter trawl. September 4, 1974 2205-0045. R/V Oconostota. Coll. J.F. Siebenaller. Det. F. Hochberg 5/96.
- Co 1526 AGASSIZ 69/06/1. Outer edge Continental borderland, S. Calif. & N. Baja Calif. Dredge #16. June-July 1969 F.G. Hochberg 5/96.
- Co 1804 Albatross Sta. 4433. Brockway Point, Santa Rosa Island, California. S. 10° E. 12 km. 485-444m Steamer Albatross. F. Hochberg 5/96.

### *Ptilosarcus gurneyi* (Gray 1860)

- Co 1617 Guadalupe Island, Baja California Norte, Mexico. 67m On hook & line. April 13, 1969 F.G. Hochberg 5/96.



*Ptilosarcus undulatus* sp.

- Co 445 El Golfo II BT-156. Off Punta San Telmo, Michoacan, Mexico. 18°27.3'N 103°36'W 30-33m 20' otter trawl. June 3, 1965 1618-1700. Coll. T. Matsui.
- Co 459 RR65-96. S.E. of Punta Coyote, Bahia de La Paz, Baja Calif. Sur, Mexico. 24°27'N 110°38'W 46m 40' otter trawl. July 23, 1965 2247-2327. Coll. R. Rosenblatt.
- Co 580 TEPE 78-9. Off Punta Amapala, Golfo de Fonseca, El Salvador. 13°1.14'N 88°1'W 42m 16' otter trawl. Mud. April 4, 1978 1948-2030. R/V Alpha Helix. Coll. W. Newman, S. Luke.

*Ptilosarcus undulatus* (Gray 1860)

- Co 298 6108B-49. E. side of Punta Blanca, Bahia Banderas, Mexico. 20°44'N 105°24.5'W 0-11m SCUBA & poison. August 21, 1961 Coll. F.H. Berry.

*Ptilosarcus undulatus* Verrill 1865

- Co 631 TEPE 78-27. Off Boca de La Trinidad, Baja California, Sur, Mexico. 23°36.3'N 109°31.8'W 49-46m 16' otter trawl. April 14, 1978 2012-2117. R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 1485 SIO 62-105 B6111-17. Bahia Magdalena, Baja California, Mexico. November 28, 1961 F.G. Hochberg 5/96.
- Co 1494 Coronado Island, North of N. Island. 47m Sand Strip. May 10, 1953 Coll. C. Limbaugh. Det. F.G. Hochberg 5/96.
- Co 1495 Vizcaino Bay, Baja California, Mexico. 28°3'N 115°5'W 82m Dredge. September 17, 1960 F.G. Hochberg 5/96.
- Co 1508 El Golfo II BT-152. Off Jalisco, Mexico. 20°14.6'N 105°36.5'W 32m 20' otter trawl. June 3, 1965 1747-1807. Coll. T. Matsui. F.G. Hochberg 5/96.
- Co 1510 MV73-I-38. N.E. shore of Golfo de Tehuantepec, Oaxaca, Mexico. 15°30.7'N 93°22.8'W 22m 40' otter trawl. April 10, 1973 0817-0842. R/V Agassiz. Coll. C. Hubbs, S. Luke. F.G. Hochberg 5/96.
- Co 1514 SIO 62-96 B6111-8. Mexico: Baja Calif. Sur: Bahia Magdalena; just inside Punta Entrada; Sail Rock. November 27, 1961 F.G. Hochberg 5/96.
- Co 1515 MV 65-I-71. La Paz Harbor, Baja California Sur, Mexico. 24°10'N 110°19'W 13m R/V Horizon. F.G. Hochberg 5/96.
- Co 1572 MV 65-II-2. Near middle of Baja Santa Marina Bay, Baja Calif. Sur, Mexico. 0-40m June 12, 1965 F.G. Hochberg 5/96.
- Co 1616 MV68-I-29. West of Isla Espiritu Santo, Bahia de La Paz, Baja Calif. Sur, Mexico. 24°25'N 110°25'W 82-119m 40' otter trawl. January 12, 1968 1703-1753. R/V T. Washington. Coll. C. Hubbs.

## PTEROEIDIDAE

*Pteroeides* sp.

- Co 770 NAGA 60 0363. Gulf of Thailand. 8°39.75'N 100°14.75'E 17m 6' beam trawl. April 27, 1960.
- Co 773 NAGA 60 0853. Gulf of Thailand. 10°4.15'N 100°19.15'E 55m 6' beam. November 10, 1960.
- Co 853 NAGA 60 0863. Gulf of Thailand. 9°23.5'N 101°15.15'E 55m 6' beam trawl. November 11, 1960.

## ZOANTHARIA

## CORALLIMORPHARIA

## CORALLIMORPHIDAE

*Corynactis californica* Carlgren

- Co 972 H-2. San Onofre, California. 5-20m May 24, 1978 Coll. J.A. Haugsness.

## ACTINARIA

- Co 297 MB-6904-6 TR #151. 10 km. North of Cabo Lobos, Baja California Norte, Mexico. 29°59'N 112°53'W 91m 17' Otter trawl. April 26, 1969 Coll. Moser.
- Co 370 ECCE BT-23. 1 mi. East of town of Bahia Tortugas, Baja Calif. Sur, Mexico. 27°41'N 114°53'W 3-5m SCUBA. Rocky point. July 31, 1975 1430-1530. Coll. S. Luke.
- Co 383 ECCE MEPA-16A. Estero de Pta. Abreojo, Baja California Sur, Mexico. 26°47.5'N 113°56.5'W -. Intertidal. July 26, 1975 Coll. S. Luke.
- Co 398 ECCE SR-35. South of fish camp, Santa Rosalillita, Baja Calif. Norte, Mexico. 28°40'N 114°14'W -. Intertidal. August 7, 1975 0330-0430. Coll. S. Luke.

- Co 399 ECCE. Pta. Pequena, Baja Calif. Sur, Mexico. 26°14'N 112°28.5'W -. Rocky intertidal. July 20, 1975 Coll. S. Luke.
- Co 408 Sea Breeze SB 51. Tombola at S.W. tip of Isla San Jose, Baja Calif. Sur, Mexico. 24°45'N 110°35'W -. Intertidal. April 14-15, 1960 R/V Orca. Coll. A. Flechsig & Clutter.
- Co 411 No. 233. From head of Monterey Canyon, California. 36°49'N 121°49'W 27-37m.
- Co 413 6108B-52. Bahia Banderas, Mexico. 20°41'N 105°23'W 63-65m 10' otter trawl #73. August 21, 1961 1715-1745. R/V Black Douglas. Coll. F.H. Berry.
- Co 414 SIO76-93. East of Catalina Island, California. 33°28'N 118°27'W 397-355m 25' otter trawl. Mud. March 8, 1976 2147-2256. R/V Agassiz. Coll. S. Luke.
- Co 416 40 Mile Bank, San Diego, California. 32°43'N 118°12'W 110m Dredge. March 22, 1938 "E.W. Scripps". Coll. F.P. Shepard.
- Co 420 Sea Breeze SB-39. Beach 5 mi. N of Guaymas, Sonora, Mexico. 27°55'N 111°0'W -. Intertidal. April 10-11, 1960 R/V Orca. Coll. A. Flechsig.
- Co 423 SIO76-96. North of Catalina Island, California. 33°33.4'N 118°38'W 556-585m 40' otter trawl. Mud. March 9, 1976 0922-1105. R/V Agassiz. Coll. S. Luke.
- Co 428 H51-27. Bahia Todos Santos, Baja Calif. Norte, Mexico. 31°45'N 116°40'W 37m Dredge. February 5, 1951 R/V Orca. Coll. C. Hubbs.
- Co 440 SIO76-94. East of Catalina Island, California. 33°28.3'N 118°24'W 457-417m 25' otter trawl. Mud. March 8, 1976 2342-0104. R/V Agassiz. Coll. S. Luke.
- Co 447 El Golfo II BT-156. Off Punta San Telmo, Michoacan, Mexico. 18°27.3'N 103°36'W 30-33m 20' otter trawl. June 3, 1965 1618-1700. Coll. T. Matsui.
- Co 449 SIO65-113. Coronado Bank, San Diego, California. 32°40.5'N 117°27.3'W 230m Diving saucer. April 22, 1965 0958-1512. Coll. C. Hubbs.
- Co 460 RR65-75. S. end of Isla Idefonso, Baja Calif. Sur, Mexico. 26°38'N 111°26.5'W 27-35m Chemfish & SCUBA. July 19, 1965 0930-1100. Coll. R. Rosenblatt.
- Co 461 RR65-46. Bahia Salinas, E. side of Isla Carmen, Baja Calif. Sur, Mexico. 25°58.4'N 111°5.8'W 0-2m Noxfish & diving. July 13, 1965 Coll. B. Walker.
- Co 464 San Ignacio Lagoon, Baja Calif. Sur, Mexico. 26°45'N 113°12'W -. Rocky miocene coquina & mangrove lagoon. March 23, 1976 1200. M/V Searcher. Coll. S. Luke.
- Co 470 MV72-I-20. South of Antofagasta, Chile. 25°12'S 71°28.6'W 6657-7095m 6' Sigsbee trawl. April 15, 1972 0015-0817. R/V T. Washington. Coll. R. McConnaughey.
- Co 474 MV72-II-26. Off Arica, Chile. 18°42'S 70°37'W 1097-1152m 25' otter trawl. Mud. May 7, 1972 R/V T. Washington. Coll. S. Luke.
- Co 475 MV72-II-27. Off Arica, Chile. 18°35'S 70°32'W 768-968m 25' otter trawl. Mud. May 7, 1972 R/V T. Washington. Coll. S. Luke.
- Co 498 STYX-7 MPE680920 Sta. 1. Nero Bank. 27°58.7'N 177°56.5'W 60-73m Rock dredge #20. Coralline algae. September 20, 1968 1415-1600. R/V Agassiz. Coll. W. Newman.
- Co 508 SS-72 105-DB. N. Mid-Pacific Ocean. 32°24.5'N 179°10.88'W 5377m Dredge box. Mud, pumice. June 19, 1972 1620-1930. R/V Sea Scope. Coll. Global Marine Development.
- Co 509 SS-72 103-DB. N. Pacific Ocean. 31°39.5'N 175°35.7'W 5121m Dredge box. Mud, nodules, pumice. June 18, 1972 1540-1900. R/V Sea Scope. Coll. Global Marine Development.
- Co 511 SS-72 93-DB. N.W. of Hawaii. 26°30'N 165°58'W 4393m Dredge box. June 13, 1972.
- Co 513 SS-72 111-DB. N. Mid-Pacific Ocean. 40°18'N 173°45.9'E 4397m Dredge box. Mud, volcanic rocks. June 25, 1972 1340-1700. R/V Sea Scope. Coll. Global Marine Development.
- Co 514 North of Kauai, Hawaii. 21°58'N 159°17'W 823m Dredge box. July 9, 1972 R/V Sea Scope.
- Co 516 SS-72, 140-DB. South of Kauai, Hawaii. 21°49.54'N 159°23.85'W 732m Dredge box. July 10, 1972 R/V Sea Scope.
- Co 519 SS-72 112-DB. N. Mid-Pacific Ocean. 40°20.39'N 175°37.79'E 5303m Dredge box. June 26, 1972 R/V Sea Scope. Coll. Global Marine Development.
- Co 520 SS-72 134DB. North of Kauai, Hawaii. 27°32'N 161°9'W 4938m Dredge box. July 8, 1972 R/V Sea Scope.
- Co 521 SS-72 6-DB. S.W. of Clarion Island. 13°40.43'N 122°18.4'W 4252m Dredge box. February 13, 1972 1417-1721. R/V Sea Scope. Coll. Global Marine Development.
- Co 534 MV68-I-76. East of Isla Carmen on W. slope of Carmen Basin, Baja Calif. Sur, Mexico. 25°56'N 110°35'W 1321-1344m 25' otter trawl. January 22, 1968 1744-2115. R/V T. Washington. Coll. C. Hubbs.
- Co 577 TEPE 78-4. Golfo de Papagayo, Costa Rica. 10°46.8'N 85°46'W 49m 16' otter trawl. April 2, 1978 2110-2149. R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 578 TEPE 78-5. Golfo de Papagayo, Costa Rica. 10°42.4'N 85°55'W 91-86m 16' otter trawl. April 2, 1978 2300-2345. R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 581 TEPE 78-9. Off Punta Amapala, Golfo de Fonseca, El Salvador. 13°1.14'N 88°1'W 42m 16' otter trawl. Mud. April 4, 1978 1948-2030. R/V Alpha Helix. Coll. W. Newman, S. Luke.

- Co 586 TEPE 78-13. Off Salina Cruz, Oaxaca. 16°0'N 95°10.2'W 42m 16' otter trawl. April 6, 1978 2115-2140. R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 600 TEPE 78-17. Isla Grande (Ixtapa), Guerrero, Mexico. 17°40.3'N 101°40.4'W -Hand collection. Intertidal. April 10, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 624 TEPE 78-24. Isla Cerralvo, Baja Calif., Sur, Mexico. 24°8'N 109°48'W -. Intertidal. April 14, 1978 0730-0830. R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 647 MV65-I-39. Basin off Bahia Magdalena, Baja Calif. Sur, Mexico. 24°25'N 113°18'W 3427-3621m 45' otter trawl. June 25, 1965 0009-0746. R/V Horizon. Coll. C. Hubbs.
- Co 654 Between Puerto San Jose and Pta. Blanca, Baja Calif. Norte, Mexico. 29°15'N 114°50'W -. Intertidal open coast. March 26, 1979 1400. Coll. S. Luke.
- Co 656 Southern Borderland III Sta. SOB 5. West of Punta Banda, Baja Calif. Norte, Mexico. 31°18'N 117°37'W 2068-2086m 30' otter trawl. February 13, 1960 1530-1700. Coll. R. Parker & Yonge.
- Co 657 Monsoon Exped. Sta. VI-2 71-D. East of New Zealand. 43°10'S 175°15'E 119m Rock dredge 71-D. January 29, 1961 0500-0630. Coll. Russell.
- Co 689 NAGA S4 60-0219. S. China Sea. 15°39'N 111°51'E 1264-1234m 10' beam trawl. Sand & mud. February 29, 1960 0200-0245. ```.
- Co 713 NAGA 60 0264. South China Sea. 10°31.5'N 109°25'E 183m 10' beam trawl. March 9, 1960.
- Co 741 NAGA 60 0212. South China Sea. 15°40'N 109°02'E 110-198m 10' beam trawl. February 27, 1960 1836.
- Co 744 NAGA 60 0270. South China Sea. 10°23.8'N 108°53.2'E 49m 2' dredge. March 10, 1960.
- Co 816 NAGA 60 0237. South China Sea. 12°9.7'N 109°24.7'E 93m 10' beam trawl. March 4, 1960.
- Co 817 NAGA 60 0271. South China Sea. 10°21.8'N 108°52'E 50m 6' beam trawl. March 10, 1960.
- Co 819 NAGA 60 0777. Nhatrang Bay. 12°9.7'N 109°24'E 93m 6' beam trawl. Sept. 20, 1960.
- Co 820 NAGA 60 0822. Nhatrang Bay. 6°33.25'N 107°46'E 73m 2.5' dredge. October 3, 1960.
- Co 839 NAGA 61 0253. Timor Sea. 10°15.9'S 128°44.3'E 56m Shell dredge. April 20, 1961.
- Co 888 MV65-I-57. S.W. of Cabo San Lucas, Baja Calif. Sur, Mexico. 22°35'N 110°12'W 2889-2505m 6' Sigsbee trawl. June 29, 1965 2040-0540. R/V Horizon. Coll. C. Hubbs.
- Co 892 Deepstar dive #70. Off La Jolla, California. 32°48'N 117°20'W 758m Submersible. Green mud. Coll. Thompson, Usry, Church.
- Co 896 Sta. 1. S.W. reef in front of Palm Grove & French barracks, Clipperton Island. 10°17'N 109°13'W -Hand collection. Coral reef flat. March 13-21, 1980 Coll. Jaques Cousteau & S. Luke.
- Co 898 SnaFu SIO80-9. Off San Diego, California. 32°43'N 117°24.4'W 402-421m 25' otter trawl. February 29, 1980 1215-1300. R/V New Horizon. Coll. R. Rosenblatt.
- Co 901 SnaFu SIO 80-8. San Diego Trough, California. 32°36.5'N 117°33'W 1171m 40' otter trawl. February 29, 1980 0420-0609. R/V New Horizon. Coll. R. Rosenblatt.
- Co 902 SIO70-22. West of Patton Escarpment. 31°12'N 119°37'W 3600-3676m 25' otter trawl. Mud. December 18, 1969 R/V Melville. Coll. C. Hubbs, S. Luke.
- Co 907 NoFac #5. San Nicholas Basin, California. 33°20'N 119°15'W 1738m 25' otter trawl. July 6, 1980 R/V Melville. Coll. R. Wilson.
- Co 913 Ferrar Glacier, Antarctica. 30-40m SCUBA. January 7, 1976 O'Connor.
- Co 917 MET Sta. 104. Catalina Basin, California. 32°23.6'N 120°35'W 550-640m 25' otter trawl. Mud. January 29, 1981 20-35-2200. R/V New Horizon. Coll. Ken Smith, S. Luke.
- Co 920 MET Sta. 109. Catalina Basin, California. 33°11'N 118°30'W 1198-1234m 40' otter trawl. January 31, 1981 1930-2145. R/V New Horizon. Coll. K. Smith, S. Luke.
- Co 921 MET Sta. 117. Catalina Basin, California. 33°13'N 118°32'W 1262-1235m 40' otter trawl. February 2-3, 1981 2325-0215. R/V New Horizon. Coll. K. Smith, S. Luke.
- Co 922 MET Sta. 123. West of Patton Escarpment. 32°35'N 120°38'W 3634-3713m 40' otter trawl. Abyssal plain. February 5, 1981 2300-0640. R/V New Horizon. Coll. Ken Smith, S. Luke.
- Co 931 MET Sta. 129. West of Patton Escarpment. 32°22'N 120°42'W 3640-3740m 40' otter trawl. February 6, 1981 R/V N. Horizon. Coll. K. Smith, S. Luke.
- Co 938 MET Sta. 133. West of Patton Escarpment. 32°25'N 120°40'W 3689-3632m 40' otter trawl. February 7, 1981 R/V N. Horizon. Coll. K. Smith, S. Luke.
- Co 957 H52-121. Bahia Sebastian Vizciano, Baja California Norte, Mexico. 46m Pipe stem dredge. August 11, 1952 Coll. K.S. Norris.
- Co 964 Cape Royds, McMurdo Sound, Antarctica. October 26, 1975.
- Co 967 Cage J #1. Cape Armitage, McMurdo Sound, Antarctica. October 25, 1974.
- Co 970 Estrecho, Collingwood, Chile. 51°52'S 73°44'W 15-33m May 19, 1973.
- Co 985 SCII, Sta. 103. West of Patton Escarpment. 32°23'N 120°32'W 3970m 40' otter trawl. January 10, 1982 R/V N. Horizon. Coll. R.R. Wilson.

- Co 986 MV68-I-65 A & B. East of Angel de La Guarda, Golfo de California, Mexico. 29°20.2'N 113°11.5'W 265-284m 25' otter trawl. January 20, 1968 0635-1000. R/V T. Washington. Coll. C. Hubbs.
- Co 1181 RR61-5. Cabo San Lucas, Baja California Sur, Mexico. 22°52'N 109°54'W -25m Rotenone & diving. June 13, 1961 Coll. R. Rosenblatt.
- Co 1182 24°33'N 110°24'W -Dipnets. June 23, 1961 Coll. B. Walker.
- Co 1183 DFH67-5 & 6. Ensenada Camp, North of San Felipe, Baja Calif. Norte, Mexico. 31°N 114°48'W -Hand net & seive. Sand & cobble. May 22, 1967 0400-1030. Coll. D.F. Hoese.
- Co 1184 Pinnacle off Barracks Bay & Morro Sur, Isla Guadalupe, Baja California Norte. 17-23m SCUBA. August 23, 1983 M/V Sandollar. Coll. R. Snodgrass.
- Co 1188 Panama Basin, Panama. 5°9.8'N 81°41.2'W 3900-4000m 40' otter trawl. October 8, 1981 R/V Melville. Coll. K. Smith.
- Co 1192 Off San Diego, California. 32°46'N 117°22.7'W 183m 25' otter trawl. July 19, 1984 R/V Van Tuna. Coll. R. Wilson.
- Co 1203 PROTEA 6 Sta. 46. N.E. side of Elephant Island, S. Shetland Island. 60°57.5'S 55°5.3'W 150m Rock dredge. March 25, 1984 R/V Melville.
- Co 1206 Rise Exped. Alvin Dive #924 B-1. 210N rift vent, near tip of Baja Calif. Sur, Mexico. 20°57.1'N 109°18'W 2740m Submersible Alvin. Scraped off rocks. May 10, 1979 R/V New Horizon. Coll. T. Atwater.
- Co 1208 Guaymas Basin, Golfo de California, Mexico. 27°23'N 111°36'W -Submersible. January 1982 or 1983. Alvin.
- Co 1212 Benthic 06. S.W. of Tahiti. 19°20'S 150°55'W 800m Rock dredge. 9. April 2, 1983 R/V Melville.
- Co 124 POSSE KLS #137. Magellan Rise. 7°17'N 176°7'W 3130-3170m 40' otter trawl. March 17, 1987 R/V Atlantis II. Coll. Ken L. Smith.
- Co 1243 Papatua-5. North of North Island, New Zealand. 34°28.8'S 178°52.3'E 2500m Rock dredge 41 (D-5). February 12, 1986 1037. R/V T. Washington.
- Co 1267 Lagoon just North of airfield, Puerto Lopez Mateos, Bahia Magdalena, Baja Sur. On mangrove root. March 19, 1989 Coll. F. Rokop, S. Luke.
- Co 1507 M-15 OT-9. Off Long Beach, California. 33°53.3'N 118°8'W 49m 40' otter trawl. On beer bottle. March 29, 1974 1512-1543. R/V Agassiz. Coll. T. Matsui.
- Co 1557 MV70-III-1. West of Patton Escarpment. 31°25'N 120°14'W 3950-3880m IKMT on bottom. March 21, 1970 R/V Melville. Coll. F. Rokop, S. Luke.
- Co 165 MV65-I-55. S.W. of Cabo San Lucas, Baja Calif. Sur, Mexico. 22°33'N 110°8'W 1484-1578m 45' otter trawl. June 29, 1965 1304-2020. R/V Horizon. Coll. C. Hubbs.
- Co 1651 6111B-2. 1 km. S of San Benito del Oeste, Islas San Benitos, Baja Calif. Norte, Mexico. 28°17.5'N 115°34.6'W -16' otter trawl #29. November 25, 1961 1736-1750.
- Co 1666 SL 57 Sea Lab 57. Submarine Canyon. 80m Picked off gorgonians. October 5, 1965.
- Co 1669 SIO 61-215. El Cardonal Cove, Espiritu Santo Island, Golfo de Calif., Mexico. June 23, 1961.
- Co 167 TP-33. Aleutian Island, Alaska. 52°20'N 177°7'W 1805-1810m Diving dredge #2. August 24, 1953 2325-0300. Coll. Wooster & McGowan.
- Co 1671 SIO 64-84 Mag Bay C-16. Between Boca de Soledad & Boca de Santo Domingo, Baja California Sur, Mexico. 25°23'N 112°6'W -. February 5, 1964 Coll. A. Stover.
- Co 1672 TP-38. S.E. of Kamchatka. Near Emperor Seamount. 46°17'N 169°4'E 4892-4682m TP diving dredge #3. Red clay. September 6-7, 1953 1702-0135. R/V Spencer F. Baird. Coll. W.S. Wooster, R. Wisner.
- Co 1673 Mag Bay A-20. N. West of Bahia Magdalena, Baja Calif. Sur, Mexico. 24°54'N 113°8'W 1229-1147m 6' beam trawl. January 31, 1964 R/V Horizon. Coll. C. Hubbs.
- Co 1705 FB62-43. Viejo, Panama. November 28-Dec 11, 1959.
- Co 1711 H52-13. San Diego Trough, California. 32°40'N 117°32'W 1225m February 27, 1952.
- Co 1714 Capricorn 56. Alexa Bank, North Fiji Basin. 11°40'S 175°8'E -. December 8, 1952 Coll. J. Isaacs.
- Co 1721 Haul 1486. 33°9.7'N 117°35.8'W 735m Green mud. June 24, 1908 1300-1450.
- Co 1722 Haul 1487. 33°9.7'N 117°35.8'W 735m Green mud. June 24, 1908 1300-1450.
- Co 1724 Acc. 1188. Off Torrey Pines, San Diego, California. 60m Dredge. August 16, 1920 Coll. P.S. Barnhart.
- Co 1725 Haul 3194. Bahia Magdalena, Baja California Sur, Mexico. April 2, 1920 Coll. Crandall & Michael.
- Co 1744 POSSE Alvin Dive #1816. Magellan Rise. 7°N 177°W 3150m clam bucket. March 17, 1987 R/V Atlantis II. Coll. Ken L. Smith.

## EDWARDSIIDAE

- Co 1247 POSSE KLS #137. Magellan Rise. 7°17'N 176°7'W 3130-3170m 40' otter trawl. March 17, 1987 R/V Atlantis II. Coll. Ken L. Smith.

## HALACAMPIDAE

- Cactosoma arenaria* Carlgren 1931  
Co 979 H-10. San Onofre, California. 5-20m June 10, 1980 Coll. J.A. Haugness.

## HALOCLAVIDAE

- Harenactis attenuata* Torrey 1902  
Co 317 Haul 3876. False Bay (Mission Bay), San Diego, California. August 1916.

## ACTINIIDAE

- Co 362 ECCE PA-1. Rocky point East of Pta. Abreojos, Baja Calif. Sur, Mexico. 26°44'N 113°35'W -. Intertidal. July 23, 1975 1600-1730. Coll. S. Luke.
- Co 364 ECCE PA-2-B. Pta. Abreojos, Baja Calif. Sur, Mexico. 26°44'N 113°35'W -. Sandstone rocks. July 24, 1975 0530-0700. Coll. S. Luke.
- Co 365 ECCE PA-9. W. side of Bahia La Baliza, Punta Abreojos, Baja Calif. Sur, Mexico. 26°44'N 113°35'W -. MLLW intertidal Phylospadix covered rocks. July 25, 1975 0530-0700. Coll. S. Luke.
- Co 390 ECCE BT-22. 1 mi. E of town of Tortugas, Bahia Tortugas, Baja Calif. Sur, Mexico. 27°41'N 114°53'W -. Intertidal sandstone. July 31, 1975 0730-0930. Coll. S. Luke.
- Co 392 ECCE BT-23. Point E. 2 km. East of town, Bahia Tortugas, Baja Calif. Sur, Mexico. 27°41'N 114°53'W 2-3m Rotenone & SCUBA. Rocky point & sand. July 31, 1975 1430-1530. Coll. S. Luke.
- Co 394 ECCE LM-26. Laguna Manuela Point, Baja Calif. Norte, Mexico. 28°13.5'N 114°11'W -. Rocky intertidal. August 4, 1975 Coll. S. Luke.
- Co 401 6108B-51. Bahia Banderas, Mexico. 20°41'N 105°22'W 46-55m 10' otter trawl

*Anthopleura xanthogrammica*

- Co 1634 La Jolla, California. Tidepools. January 1968.

*Anthopleura xanthogrammica* (Brandt 1835)

- Co 1643 La Jolla, California. Tidepools. January 1968.

*Epiactis prolifera* Verrill 1869

- Co 318 SIOM59-35-3. Tomales Bay, Dillon's Beach, California. March 1921 Coll. M. Johnson.
- Co 978 H-8. San Onofre, California. 5-20m June 10, 1980 Coll. J.A. Haugness.

## LIPONEMATIDAE

- Liponema brevicornis* McMurrich 1893  
Co 62 Baja Slope Exped. BS-14. Cedros Trough, off Punta Eugenia, Baja Calif. Sur, Mexico. 27°12'N 115°20'W 4188-4161m 10' beam trawl. Silty clay. May 6-7, 1961 1635-0040. Coll. R. H. Parker??S.Cairns??.

## ACTINOSCYPHIIDAE

*Actinoscyphia* sp.

- Co 1255 POSSE. Alvin Dive 1806. Horizon Guyot. 19°16'N 168°58'W 1470m Submersible Alvin. March 3, 1987 R/V Atlantis II. Coll. K.L. Smith, Jr. Det. D.G. Fautin 4/89.

## HORMATHIIDAE

*Paraphelliactis* sp.

- Co 1256 POSSE. Alvin Dive 1812. Horizon Guyot. 19°16'N 168°58'W 1480m Submersible Alvin. March 9, 1987 R/V Atlantis II. Coll. K.L. Smith, Jr.

## HALIPLANELLIDAE

*Haliplanella luciae* (Verrill 1898)

- H-4. San Onofre, California. Surface. December 11, 1978 Coll. J.A. Haugness.

## SCLERACTINA

- Co 369 MV72-II-32. Off Punta San Juan, Peru. 15°47'S 76°7'W 3475m 25' otter trawl. Mud. May 10, 1972 R/V T. Washington. Coll. S. Luke.
- Co 467 6411B-3. Between Puntas Lobos & Marquis, Baja Calif. Sur, Mexico. 23°34'N 110°23.3'W 64m 16' otter trawl TR #112. November 9, 1964 2020-2050. R/V Black Douglas.
- Co 477 STYX-7 MPE68026 Sta. 2. Horizon Guyot. 19°29'N 168°45'W 1662-1820m 25' Marinovich otter trawl #1. August 26, 1968 1347-1820. R/V Agassiz. Coll. W. Newman.

- Co 478 STYX-7 MPE680828 Sta. 1. Horizon Guyot. 19°23.5'N 168°50'W 2195-1551m 25' Marinovich otter trawl #2. August 27 & 28, 1968 2310-0445. R/V Agassiz. Coll. W. Newman.
- Co 481 STYX-7 MPE68091 Sta. 3. Hess Guyot. 17°53.1'N 174°23'W 1763-1719m Sigsbee trawl. September 1, 1968 0900-1250. R/V Agassiz. Coll. W. Newman.
- Co 483 STYX-7 MPE68091 Sta. 4. Hess Guyot. 17°52.5'N 174°17'W 1780-1844m Rock dredge #6. September 1, 1968 1550-1835. R/V Agassiz. Coll. W. Newman.
- Co 493 STYX-7 MPE68097 Sta. 4. Agassiz Guyot. 18°N 178°15'E 1582-1617m 5'sigsbee trawl #3. September 7, 1968 2030-0030. R/V Agassiz. Coll. W. Newman.
- Co 494 STYX-7 MPE680915 Sta. 1. Darwin Guyot. 21°58'N 171°32'E 1307-1353m Pipe dredge #16. September 15, 1968 R/V Agassiz. Coll. W. Newman.
- Co 495 STYX-7 MPE680917 Sta. 1. Darwin Guyot. 22°2'N 171°34.5'E 1280m Sigsbee trawl #6. September 17, 1968 0020-0325. R/V Agassiz. Coll. W. Newman.
- Co 5 STYX-7 MPE680921 Sta. 2. Kure Atoll. 28°23'N 178°22'W 55m Rock dredge #22 & 23. September 21, 1968 1600-1745. R/V Agassiz. Coll. W. Newman.
- Co 583 TEPE 78-9. Off Punta Amapala, Golfo de Fonseca, El Salvador. 13°1.14'N 88°1'W 42m 16' otter trawl. Mud. April 4, 1978 1948-2030. R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 598 TEPE 78-15. Isla Sacrificios, Oaxaca, Mexico. 15°40.8'N 96°14.6'W 13m SCUBA. April 7, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 619 TEPE 78-23. Bahia Chamela, Jalisco. 19°35'N 105°8.5'W 5-6m SCUBA. April 12, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 620 TEPE 78-23. Bahia Chamela, Jalisco. 19°35'N 105°8.5'W 5-6m SCUBA. April 12, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 628 TEPE 78-26. Montana Rock, S.E. corner of Isla Cerralvo, Baja Calif., Sur, Mexico. 24°8'N 109°47.5'W 7m
- Co 747 NAGA 60 0477. Gulf of Thailand. 12°32'N 100°46'E 27m Beam trawl. January 19, 1960.
- Co 752 NAGA S4 60-0219. S. China Sea. 15°39'N 111°51'E 1264-1234m 10' beam trawl. Sand & mud. February 29, 1960 0200-0245.
- Co 754 NAGA 60 0237. South China Sea. 12°9.7'N 109°24.7'E 93m 10' beam trawl. March 4, 1960.
- Co 757 NAGA 60 0271. South China Sea. 10°21.8'N 108°52'E 50m 6' beam trawl. March 10, 1960.
- Co 769 NAGA 59 0052. Gulf of Thailand. 8°40'N 102°18.5'E 70m 40' ott. Trawl. October 24, 1959 1045.
- Co 778 NAGA 60 1059. Gulf of Thailand. 11°33.3'N 100°53.5'E 46m 7' beam trawl. December 11, 1960.
- Co 787 NAGA 60 1068. Gulf of Thailand. 11°30'N 99°47.15'E 22m 16' otter trawl. December 12, 1960.
- Co 801 SCUBA. April 14, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 632 Bo. Buliasnin, West of Marinduque Island, Philippines. 13°20'N 122°E 262-278m Trawl. Mud & sand. October 10, 1966 Coll. J. Norton.
- Co 633 South of Bo. Sepating Balayan Bay, Tatangas, Luzon, Philippines. 13°45'N 121°E - Trawl. July 29, 1966 Coll. J. Norton.
- Co 634 East of Gaspar Island, Marinduque Island, Philippines. 13°20'N 122°E 181-223m Trawl. Sand & coble. September 29, 1966 Coll. J. Norton.
- Co 635 East of Gaspar Island, Marinduque Island, Philippines. 13°20'N 122°E 181-223m Trawl. Sand & coble. September 29, 1966 Coll. J. Norton.
- Co 636 Tayabas Bay, W. Quezon, Luzon, Philippines. 13°45'N 121°45'E -. June 1966 Coll. J. Norton.
- Co 637 East of Gaspar Island, Marinduque Island, Philippines. 13°20'N 122°E 181-223m Trawl. Sand & cobble. September 29, 1966 Coll. J. Norton.
- Co 700 NAGA 60 0208. South China Sea. 12°14.7'N 109°18.4'E 28m 10' beam trawl. February 25, 1960.
- Co 709 NAGA 60 0212. South China Sea. 15°40'N 109°02'E 110-198m !0' beam trawl. February 27, 1960 1836.
- Co 711 NAGA 60 0216. South China Sea. 15°40'N 109°43.5'E 479m 10' beam trawl. February 28, 1960.
- Co 746 NAGA 61 0113. Gulf of Thailand. 10°0'N 103°50.25'E 18m 16' otter trawl. February 10, 1961. NAGA 61 0231. Timor Sea. 10°25.15'S 126°33.25'E 31m Shell dredge. April 15, 1961.
- Co 709 NAGA 60 0212. South China Sea. 15°40'N 109°02'E 110-198m !0' beam trawl. February 27, 1960 1836.
- Co 749 NAGA 61 0246. Timor Sea. 10°56.3'S 129°25.9'E 71m Shell dredge. April 19, 1961.
- Co 783 NAGA 60 0212. South China Sea. 15°40'N 109°02'E 110-198m !0' beam trawl. February 27, 1960 1836.
- Co 834 NAGA 61 0192. Sunda Str. (Krakatoa), Java Sea. 6°11.2'N 105°29.3'E 91m Chain dredge. March 23, 1961.
- Co 869 NAGA 61 0249. Timor Sea. 10°54.75'S 128°49.75'E 34-82m Chain bag dredge. April 19, 1961.
- Co 949 Criss-Cross. North of Galapagos Island. 3°18'N 90°34'W -Dredge sample #1. Basalt & coral. March 3, 1963 R/V S.F. Baird. Coll. T. Chase.

- Co 961 NAGA 61 0128. Ile de Phu Ques, Gulf of Thailand. 10°12.7'N 103°55.25'E 11m 16' otter trawl. February 10, 1961.
- Co 107 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.
- Co 1111 Lameshur Bay, St. John Island, Virgin Island. 18°19'N 64°43'W -Diving. August 1969. Coll. T. Dana.
- Co 1133 TEPE70-30. Agualagarna Is, Holandes Cay, San Blas Island, Panama. 9°35.9'N 78°46.9'W 0-20m SCUBA. September 27-Oct. 7, 1970 R/V Alpha Helix. Coll. W. Newman, T. Dana, S. Luke.
- Co 1152 Hydro Lab, Lucaya, Grand Bahamas Island. 26°30'N 78°45'W 13-27m SCUBA. 1973 Coll. A. Flechsig.
- Co 1199 PROTEA 5 Sta. 22. Off tip of S. Africa. 45°34'S 35°16.4'E 2350-1940m Rock dredge. January 28, 1984 R/V Melville. Coll. R.L. Fisher.
- Co 121 Benthic 6. S.W. of Tahiti. 19°20'S 150°55'W 940-805m Rock dredge 8. April 2, 1983 R/V Melville.
- Co 1213 Indomed 8 Dredge 3D. Madagascar Ridge. 34°28'S 43°26'E 1838-1906m Dredge 3D. May 8, 1978 R/V Melville.
- Co 1218 Indomed 8. S.W. Indian Ridge. 36°38.7'S 52°6'E 808-975m Rock dredge #14. May 22, 1978 R/V Melville.
- Co 1241 MD 24 Sta. 6 CP 11. North of Bouvet Island. 54°18'N 3°22'E 1168-950m Trawl. August 19, 1980 R/V Marion Dufresne.
- Co 1244 Papatua-5. North of North Island, New Zealand. 34°28.8'S 178°52.3'E 2500m Rock dredge 41 (D-5). February 12, 1986 1037. R/V T. Washington.
- Co 1249 Monsoon Exped. Sta. VI-2 71-D. East of New Zealand. 43°10'S 175°15'E 119m Rock dredge 71-D. January 29, 1961 0500-0630. Coll. Russell.
- Co 1250 Monsoon Sta. 251-60. Off St. Paul Island. 38°42'S 77°30'E 750m Shell dredge. December 23, 1960.
- Co 1251 Monsoon Sta. 248-60. Off Mauritius. 19°42'S 58°0'E 622m Rock dredge. November 7, 1960.
- Co 1252 Japanyon (JYN)-III-51. Off Yokohama, Japan. 34°54.5'N 139°43.4'E 512m Dredge. July 16, 1961 R/V S.F. Baird. Coll. Shepard.
- Co 1253 NAGA 60-0214. S. Cina Sea. 15°40'N 109°44'E 476m Net tow. February 27, 1960 2236-2256.
- Co 1259 PLUM 02 WT D-14. Galapagos Island, Ecuador. 0°6'N 89°7.1'W 1639-1090m Rock dredge D-14. January 27, 1990.
- Co 1261 PLUM 02 WT D-17. Galapagos Island, Ecuador. 1°11.38'S 89°6.58'W 234-640m Rock dredge D-17. January 29, 1990.
- Co 1264 PLUM 02 WT D-26. Galapagos Island, Ecuador. 0°50'S 91°17'W 500-851m Rock dredge D-26. February 1990.
- Co 1277 ANTIPODE 8 144D. Near the Seychelles. 8°17.6'S 58°55.1'E 490m Chain rock dredge. February 4, 1971 1215-1330. R/V Melville. Coll. J. Coatsworth.
- Co 1278 Monsoon Exped. 72-D. Off New Zealand. 43°26'S 176°43'E 245m Rock dredge. January 1200.
- Co 1279 Monsoon Exped. Sta. VI-5 74-D. East of New Zealand. 43°21'S 179°30'E 425m Rock dredge 74-D. January 30, 1961 1105-1225. Coll. Russeull.
- Co 128 Haul 1781. 32°50.2'N 118°22'W 110m July 1, 1909 1455-1510.
- Co 1281 Monsoon Sta. VI-7 76-D. East of New Zealand. 43°38'S 177°26'E 161m Rock dredge 76-D. January 31, 1961 1724-1845. Coll. Russell & Menard.
- Co 1282 TEPE70-13. Islas Ladroneas, Panama. 7°52.23'N 82°27.75'W -Scuba, chemfish, snorkel. In cave. September 19, 1970 1200-1400. R/V Alpha Helix. Coll. W. Newman, T. Dana, S. Luke.
- Co 1283 SIO65-84. La Jolla Submarine Canyon, San Diego, California. 35-40m Diving saucer & chemfish. March 29, 1965 Coll. C. Hubbs.
- Co 1284 Monsoon Exped. (P-240-60). Off Soembawa Island. 8°2'N 118°8.3'E 57m Orange peel grab. October 27, 1960 Coll. R. Parker & Rowland.
- Co 1285 Monsoon Exped. (P-149-60). Off Mauritius. 19°50'S 57°39'E 49m Shell dredge. December 7, 1960 0708-0732. Coll. R. Parker & Rowland.
- Co 1286 Monsoon Exped. Sta. VI-1 70-D. East of New Zealand. 43°9'S 175°15'E 119m Rock dredge 70-D. January 29, 1961 0353-0430. Coll. Russell.
- Co 1287 Lusiad Exped. Sta. #17S-36. West of South Africa. 31°28'S 2°30'E 1496-1220m chain rock dredge. June 8, 1963 1509-1745. Coll. V. Vaquier.
- Co 1289 data in grren catalog. wiped off database by accident
- Co 129 TEPE70-17. N.E. bays of Isla Cavada, Islas Secas, Panama. 7°59.3'N 82°1.5'W 0-5m SCUBA. September 21-23, 1970 R/V Alpha Helix. Coll. W. Newman, T. Dana, S. Luke.
- Co 1292 Saucer Dive #345. Due West of Bird Rock, La Jolla, California. 110-200m Diving saucer. April 17, 1965 Coll. R. Ford.
- Co 1294 Gulf of Campeche, Gulf of Mexico, Mexico. On Arca zebra
- Co 1300 South Island, Coronado Islands, Baja California Norte, Mexico. 37-40m SCUBA. October 3, 1958 Coll. C. Limbaugh, M. Rydell.
- Co 1302 Holt Exped. Sta. 13. West of Punta Cabras, Baja Calif. Norte, Mexico. 31°20'N 116°39.2'W 82m 10' otter trawl. December 4, 1960 Coll. C. Boyd.

- Co 1303 Sta. 8. La Jolla Canyon, Off La Jolla, California. 114-40m Rock dredge. Rock, sand, clay. January 7, 1954.
- Co 1305 Farnsworth Bank, Catalina Island, California. 28-30m SCUBA. Coll. J. McCosker.
- Co 1306 Scripp Canyon, La Jolla Shores, La Jolla, California. 33m SCUBA April 8, 1961 R. Kiwala
- Co 1308 Cortez Bank. 32°30.2'N 119°13.7'W 94m 16' otter trawl. May 16, 1963 2030-2100. Coll. F.H. Berry.
- Co 1310 6105H-13. North of Punta Colnett, Baja Calif. Norte, Mexico. 31°9'N 116°35'W 33-48m 10' Midwater trawl on bottom. June 5, 1961 1815-1930. Coll. Hodnett.
- Co 1313 Japanyon JYN-III-50. Off Yokohama, Japan. 34°53.5'N 139°45.25'E 460m Dredge. July 17, 1961 1221-1324. R/V Spencer F Baird. Coll. Shepard.
- Co 1315 ANTIPODE 8 143 D. Seychelles. 8°17.6'S 58°55.1'E 362m Rock chain dredge. February 4, 1971 R/V Melville. Coll. J. Coatsworth.
- Co 1321 MB-6904-3 TR #148. 20 km. S.E. of Guaymas, Mexico. 27°46.5'N 110°44'W 46m 17' otter trawl. April 23, 1969 Coll. Moser.
- Co 1322 Mag Bay A-12. S. part of Punta Magdalena in Bahia Magdalena, Baja California Sur, Mexico. 24°37'N 112°7'W -. January 29, 1964 Coll. H. Lowenstam.
- Co 1323 Monsoon Exped. (P-234-60). Torres Strait. 10°11'S 139°31'E 51m Rock dredge. October 12, 1960 1600-2030. Coll. Rowland.
- Co 1324 M-15 OT-9. Off Long Beach, California. 33°53.3'N 118°8'W 49m 40' otter trawl. On beer bottle. March 29, 1974 1512-1543. R/V Agassiz. Coll. T. Matsui.
- Co 1325 M-15 OT-10. Santa Monica, California. 33°52.5'N 118°34'W 73m 25' otter trawl. March 29, 1974 2134-2208. R/V Agassiz. Coll. T. Matsui.
- Co 1326 6108B-75. Off Boca Teacapan, Sinaloa, Mexico. 22°15'N 106°3'W 54m 16' otter trawl. August 25, 1961 Coll. F.H. Berry.
- Co 1328 Eagle Reef, Santa Catalina Island, California. 7-13m December 16, 1969.
- Co 1329 Santa Barbara Island, California. 11m December 15, 1969.
- Co 1330 Islas Coronados, Baja California Norte, Mexico 17m June 1968
- Co 1331 1969.027 Baja 69-10 S. of Laguna San Ignacio, Baja California Sur, Mexico 26°17.7'N 113°46.2'W 311m Dredge February 22, 1969 R/V Oconostota
- Co 1332 1969.014 Baja 69-12. N. of Bahia Asuncion, Baja Calif. Sur, Mexico. 27°6'N 114°28.2'W 348m Pipe dredge with chain bag. February 23, 1969 R/V Oconostota.
- Co 1334 SIO62-233 S.E. end of Isa Cabeza de Caballo, Bahia de Los Angeles, Baja California, Mex. 28°59'N 113°30'W 17 - 25 m Chemfish. Boulders & sand. April 25, 1962 Coll. R. Rosenblatt.
- Co 1335 CIRCE X Sta. 247 Brazil 1280m December 8, 1968
- Co 1336 1960.075 NAGA 60 0208 South China Sea 12°14.7'N 109°18.4'E 28m 10' beam trawl February 25, 1960
- Co 1337 NAGA S4 60-0232 South China Sea 141m March 3, 1960
- Co 1338 1961.067 Monsoon Exped. (P-252-61) Off W. Australia 35°15.2'S 115°52'E 439m Shell & pipe dredge January 7, 1961 1843-1939 Coll. Rowland
- Co 1339 1960.041 Monsoon Exped. (P-244-60) Djakarta 8°5'S 108°45'E 110 - 128 m Shell dredge November 12, 1960 Coll. R. Parker, Rowland
- Co 1341 SIO63-806 Bahia Tortugas TR #54
- Co 1648 1960.044 Monsoon Exped. (P-248-60) Off Mauritius. 19°42'S 58°0'E 622m Rock dredge. November 7, 1960
- Co 1649 1969.005 Baja 69-16. Off Bahia Totugas, Baja Calif. Sur, Mexico. 27°32.5'N 114°52.7'W 102m Pipe & chain rock dredge. February 24, 1969 0716-0745. R/V Oconostota.
- Co 1652 1970.007 TEPE70-7. Off Punta David, Isla Jicaron, Panama. 7°15.7'N 81°45.3'W 64m Rock dredge. 200 ft. terrace. September 16, 1970 2000. R/V Alpha Helix. Coll. W. Newman, T. Dana, S. Luke.
- Co 1657 Marine Street, La Jolla, California June 1968
- Co 1660 La Jolla Canyon, La Jolla, California 100m
- Co 1661 1960.012 Holt Exped Sta. 4. Uncle Sam Bank, Baja Calif. Sur, Mexico. 25°38'N 113°24'W 157m 16' otter trawl. December 1, 1960 Coll. C. Boyd, D. Dockins.

## MERULINIDAE

### *Hydnophora microconos* (Lamarck)

- Co 1038 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

### *Hydnophora rigida* (Dana)

- Co 1039 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

## SERIATOPORIDAE

### *Madracis decactis* (Lyman)

- Co 545 Hydro Lab, Lucaya, Grand Bahamas Island. 26°30'N 78°45'W 13-27m SCUBA. 1973 Coll. A. Flechsig.



## ASTROCOENIIDAE

- Co 1662 Quast Rock. La Jolla, California. 23m SCUBA. April 7, 1969. April 7, 1969 Coll. R. Kiwala.

*Stylocoeniella armata*

- Co 287 Olive Island, Eniwetak Atoll, Marshall Islands. 7m SCUBA. Off shore rubble. May 25, 1969 T. Dana, J. Maragos.

## POCILLOPORIDAE

*Pocillopora* sp.

- Co 111 Gulf of Chiriqui, Panama
- Co 112 Dolphin 76 Sta. 2. Lobos Rocks, S. end of Isla San Marcos, Golfo de California, Mexico. 27°15'N 112°10'W 0-5m Rotenone. Rocky reef & sand. May 6, 1976 M/V Dolphin. Coll. R. Rosenblatt.
- Co 113 Carmarsel-306. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 8-13m SCUBA. February 14, 1967 R/V Horizon. Coll. Hokukous & J. Stewart.
- Co 114 Carmarsel-307. West of Ulul Island, Namonuito Atoll, Caroline Islands. 5-20m SCUBA. On Heliopora. February 15, 1967 1250-1330 R/V Horizon. Coll. W. Newman.
- Co 115 S.E. side of Astore Island. (mouth of Madagascar). 5m March 1971 Coll. R. Rosenblatt.
- Co 116 Kilindini Beach, Kenya. 3-5m Inner edge of reef. March 1971 Coll. R. Rosenblatt.
- Co 119 Henry Island, Eniwetak Atoll, Marshall Islands. Reef flat. Common on buttresses. August 1968 Coll. T. Dana.
- Co 120 Inter island channel, N. end of Wilma, Eniwetak Atoll, Marshall Islands. 1-2m August 1968 Coll. T. Dana.
- Co 122 Carmarsel-306. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 8-13m SCUBA. February 14, 1967 R/V Horizon. Coll. Hokukous & J. Stewart.
- Co 123 Carmarsel-307. West of Ulul Island, Namonuito Atoll, Caroline Islands. 5-20m SCUBA. On Heliopora. February 15, 1967 1250-1330 R/V Horizon. Coll. W. Newman.
- Co 129 Isla Contadora, Islas Perlas, Golfo de Panama
- Co 130 80 m. South of cannery, Cabo San Lucas, Baja California Sur, Mexico. 3m Water temp. 75°F. April 14, 1968 Coll. R. McConaughey.
- Co 131 La Paz area, Baja California Sur, Mexico
- Co 895 Sta. 2. N. end at opening to ocean, Clipperton Island. 10°18'N 109°13'W -Hand collection. Coral reef flat. March 13-22, 1980 Coll. Jaques Cousteau & S. Luke.
- Co 1048 TEPE 78-15. Isla Sacrificios, Oaxaca, Mexico. 15°40.8'N 96°14.6'W 13m SCUBA. April 7, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 1049 TEPE 78-15. Isla Sacrificios, Oaxaca, Mexico. 15°40.8'N 96°14.6'W 13m SCUBA. April 7, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 1053 TEPE 78-15. Isla Sacrificios, Oaxaca, Mexico. 15°40.8'N 96°14.6'W 13m SCUBA. April 7, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 1054 TEPE 78-15. Isla Sacrificios, Oaxaca, Mexico. 15°40.8'N 96°14.6'W 13m SCUBA. April 7, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 1055 TEPE 78-15. Isla Sacrificios, Oaxaca, Mexico. 15°40.8'N 96°14.6'W 13m SCUBA. April 7, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 1058 TEPE 78-15. Isla Sacrificios, Oaxaca, Mexico. 15°40.8'N 96°14.6'W 13m SCUBA. April 7, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 1059 TEPE 78-15. Isla Sacrificios, Oaxaca, Mexico. 15°40.8'N 96°14.6'W 13m SCUBA. April 7, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 1061 TEPE 78-15. Isla Sacrificios, Oaxaca, Mexico. 15°40.8'N 96°14.6'W 13m SCUBA. April 7, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 1062 TEPE 78-18. Isla Grande (Ixtapa), Guerrero, Mexico. 17°40.3'N 101°40.4'W - SCUBA. Rocky. April 10, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 1063 TEPE 78-18. Isla Grande (Ixtapa), Guerrero, Mexico. 17°40.3'N 101°40.4'W - SCUBA. Rocky. April 10, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 1064 TEPE 78-18. Isla Grande (Ixtapa), Guerrero, Mexico. 17°40.3'N 101°40.4'W - SCUBA. Rocky. April 10, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 1065 TEPE 78-18. Isla Grande (Ixtapa), Guerrero, Mexico. 17°40.3'N 101°40.4'W - SCUBA. Rocky. April 10, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 1066 TEPE 78-18. Isla Grande (Ixtapa), Guerrero, Mexico. 17°40.3'N 101°40.4'W - SCUBA. Rocky. April 10, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 1067 TEPE 78-18. Isla Grande (Ixtapa), Guerrero, Mexico. 17°40.3'N 101°40.4'W - SCUBA. Rocky. April 10, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 1068 TEPE 78-18. Isla Grande (Ixtapa), Guerrero, Mexico. 17°40.3'N 101°40.4'W - SCUBA. Rocky. April 10, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.

Co 1069 TEPE 78-18. Isla Grande (Ixtapa), Guerrero, Mexico. 17°40.3'N 101°40.4'W - SCUBA. Rocky. April 10, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.

*Pocillopora cf. damicornis*

Co 1052 TEPE 78-15. Isla Sacrificios, Oaxaca, Mexico. 15°40.8'N 96°14.6'W 13m SCUBA. April 7, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.

*Pocillopora damicornis* sp.

Co 121 Henry Island, Eniwetak Atoll, Marshall Islands. 5m Lagoon. August 1968 Coll. T. Dana.

*Pocillopora damicornis* (Linnaeus)

Co 1089 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

Co 1002 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

Co 1093 Kure Atoll. 28°25'N 178°20'W -Skin diving. March-June 1969 Coll. T. Dana.

*Pocillopora danae*

Co 117 Carmarsel-302. Off fantail at anchorage of ship West of Ulul Island, Namonuito Atoll, Caroline Islands. 23-8m SCUBA. February 12, 1967 1050-1117. R/V Horizon. Coll. W. Newman, J. Stewart.

Co 118 Carmarsel-303. West of Ulul Island, Namonuito Atoll, Caroline Islands. 0-21m SCUBA. February 12, 1967 1440-1520. R/V Horizon. Coll. W. Newman, J. Stewart.

*Pocillopora danae* Verrill

Co 1767 Eilat, Red Sea. w/Pyrgomatidae (C 5968). July 1969 Det. Y. Ioya.

*Pocillopora elegans* Dana

Co 1003 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

*Pocillopora eydouxi* Milne-Edwards

Co 1001 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

*Pocillopora ligulata* Dana

Co 1091 Kure Atoll. 28°25'N 178°20'W -Skin diving. March-June 1969 Coll. T. Dana.

*Pocillopora cf. robusta* Verrill

Co 1047 TEPE 78-15. Isla Sacrificios, Oaxaca, Mexico. 15°40.8'N 96°14.6'W 13m SCUBA. April 7, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.

*Pocillopora setchelli* Hoffmeister

Co 1000 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

*Pocillopora verrucosa* (Ellis & Solander)

Co 1009 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

*Seriatopora* sp.

Co 127 Carmarsel-306. N.N.E. of anchorage at Ulul Is., Namonuito Atoll, Caroline Is. 8 13 SCUBA. February 14, 1967 R/V Horizon. Hokukous & J. Stewart.

Co 128 Carmarsel-307. West of Ulul Is., Namonuito Atoll, Caroline Is. 5 20 SCUBA. On Heliopora. February 15, 1967 1250-1330 R/V Horizon. W. Newman.

*Seriatopora cf. angulata* Klunzinger

Co 1084 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

*Stylophora pistillata*

Co 124 Carmarsel-307. West of Ulul Island, Namonuito Atoll, Caroline Islands. 5-20m SCUBA. On Heliopora. February 15, 1967 1250-1330 R/V Horizon. Coll. W. Newman.

Co 125 Inter island channel, N. end of Wilma, Eniwetak Atoll, Marshall Islands. 1-2m August 1968 Coll. T. Dana.

Co 126 Carmarsel-302. Off fantail at anchorage of ship West of Ulul Island, Namonuito Atoll, Caroline Islands. 23-8m SCUBA. February 12, 1967 1050-1117. R/V Horizon. Coll. W. Newman, J. Stewart.

ACROPORIDAE

*Acropora* sp.

Co 73 Carmarsel-307. West of Ulul Island, Namonuito Atoll, Caroline Islands. 5-20m SCUBA. On Heliopora. February 15, 1967 1250-1330 R/V Horizon. Coll. W. Newman.

Co 74 Carmarsel-307. West of Ulul Is., Namonuito Atoll, Caroline Is. 5 20 SCUBA. On Heliopora. February 15, 1967

Co 76 Carmarsel-316. Kusaie, Caroline Is. 0 12 SCUBA. March 21, 1967 15 min. R/V Horizon. W. Newman, J. Curray.

Co 77 Carmarsel-316. Kusaie, Caroline Is. 0 12 SCUBA. March 21, 1967 15 min. R/V Horizon. W. Newman, J. Curray.

- Co 78 Carmarsel-316. Kusaie, Caroline Is. 0 12 SCUBA. March 21, 1967 15 min. R/V Horizon. W. Newman, J. Curray.
- Co 79 Carmarsel-316. Kusaie, Caroline Is. 0 12 SCUBA. March 21, 1967 15 min. R/V Horizon. W. Newman, J. Curray.
- Co 80 Carmarsel-307. West of Ulul Is., Namonuito Atoll, Caroline Is. 5 20 SCUBA. On Heliopora. February 15, 1967 1250-1330 R/V Horizon. W. Newman
- Co 76 Carmarsel-316. Kusaie, Caroline Islands. 0-12m SCUBA. March 21, 1967 15 min. R/V Horizon. Coll. W. Newman, J. Curray.
- Co 85 Carmarsel-305. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 22-12m SCUBA. February 14, 1967 R/V Horizon. Coll. W. Newman, J. Stewart.
- Co 86 Carmarsel-306. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 8-13m SCUBA. February 14, 1967 R/V Horizon. Coll. Hokukous & J. Stewart.
- Co 87 Carmarsel-315. S.E. side against reef edge of Lottin Harbor, Kusaie, Caroline Islands. 3-30m SCUBA. March 21, 1967 R/V Horizon. Coll. P. Crampton, J. Stewart.
- Co 89 Carmarsel-303. West of Ulul Island, Namonuito Atoll, Caroline Islands. 0-21m SCUBA. February 12, 1967 1440-1520. R/V Horizon. Coll. W. Newman, J. Stewart.
- Co 090 Henry Island, Eniwetak Atoll, Marshall Islands. 5m Seaward reef. August 1968 Coll. T. Dana.
- Co 91 Henry Island, Eniwetak Atoll, Marshall Islands. 5m Seaward reef. August 1968 Coll. T. Dana.
- Co 92 Lagoon inside Eniwetak Atoll, Marshall Islands. 1m August 1968 Coll. T. Dana.
- Co 1086 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.
- Co 1771 Cundabiln Island, Dahlak Archipelago, Red Sea. w/Pyrgomatidae. (C 6004) March 1962.

### Acropora

Co 1771 E62/3127.

Cundabiln Island, Dahlak Archipelago,  
Red  
w/Pyrgomatidae  
(C 6004)

March 1962.

### *Acropora abrotanoides* (Lamarck)

- Co 1004 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

### *Acropora cervicornis* (Lamarck)

- Co 550 Hydro Lab, Lucaya, Grand Bahamas Island. 26°30'N 78°45'W 13-27m SCUBA. 1973 Coll. A. Flechsig.

### *Acropora cymbicyanthus* (Brook)

- Co 1005 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

### *Acropora humilis* (Dana)

- Co 1006 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

### *Acropora palifera*

- Co 93 N. end of Wilma, Eniwetak Atoll, Marshall Islands. 1-2m Inter island channel. August 1968 Coll. T. Dana.
- Co 1787 Enyu Channel, 5 mi. W. of Enyu Is., Bikini 11-15m w/Pyrgomatidae (C 7998). K.O. Emery.

### *Acropora palmata* (Lamarck)

- Co 1126 TEPE70-30. Agualagarna Is, Holandes Cay, San Blas Island, Panama. 9°35.9'N 78°46.9'W 0-20m SCUBA. September 27-Oct. 7, 1970 R/V Alpha Helix. Coll. W. Newman, T. Dana, S. Luke.

### *Acropora plicata* (Brook)

- Co 1818 In W/Pyrgoma (C 9922) 1270 HH dr 65. Lagoon near Bikini Island. 7m Coll. John Mann.

### *Acropora rambleri*

- Co 88 Carmarsel-313. Truk Lagoon, West of Moen Harbor, Caroline Is. 30 35 SCUBA. March 7, 1967 1515-1533. R/V Horizon. W. Newman, J. Stewart.

### *Acropora rayneri*

- Co 75 Carmarsel-313. Truk Lagoon, West of Moen Harbor, Caroline Islands. 30-35m SCUBA. March 7, 1967 1515-1533. R/V Horizon. Coll. W. Newman, J. Stewart.

### *Acropora tubicinaria*

- Co 72 Eniwetak Atoll. Seaward (Windward) reef. Coll. T. Dana.

### *Acropora variabilis* (Klunzinger)

- Co 1008 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

### *Astreopora* sp.

- Co 94 Carmarsel-307. West of Ulul Is., Namonuito Atoll, Caroline Is. 5 20 SCUBA. On Heliopora. February 15, 1967 1250-1330 R/V Horizon. W. Newman

- Co 97 Carmarsel-305. N.N.E. of anchorage at Ulul Is., Namonuito Atoll, Caroline Is. 22 12 SCUBA. February 14, 1967 R/V Horizon. W. Newman, J. Stewart
- Co 99 Carmarsel-306. N.N.E. of anchorage at Ulul Is., Namonuito Atoll, Caroline Is. 8 13 SCUBA. February 14, 1967 R/V Horizon. Hokukous & J. Stewart
- Co 102 N. end of Wilma, Eniwetak Atoll, Marshall Islands. 1-2m August 1968 Coll. T. Dana.
- Co 103 Henry Island, Eniwetak Atoll, Marshall Islands. 5m Lagoon. August 1968 Coll. T. Dana.

#### *Montipora* sp.

- Co 81 Carmarsel-307. West of Ulul Is., Namonuito Atoll, Caroline Is. 5 20 SCUBA. On Heliopora. February 15, 1967 1250-1330 R/V Horizon. W. Newman.
- Co 82 Carmarsel-307. West of Ulul Is., Namonuito Atoll, Caroline Is. 5 20 SCUBA. On Heliopora. February 15, 1967 1250-1330 R/V Horizon. W. Newman.
- Co 83 Carmarsel-307. West of Ulul Is., Namonuito Atoll, Caroline Is. 5 20 SCUBA. On Heliopora. February 15, 1967 1250-1330 R/V Horizon. W. Newman
- Co 95 Carmarsel-303. West of Ulul Is., Namonuito Atoll, Caroline Is. 0 21 SCUBA. February 12, 1967 1440-1520. R/V Horizon. W. Newman, J. Stewart.
- Co 96 Carmarsel-305. N.N.E. of anchorage at Ulul Is., Namonuito Atoll, Caroline Is. 22 12 SCUBA. February 14, 1967 R/V Horizon. W. Newman, J. Stewart.
- Co 98 Carmarsel-306. N.N.E. of anchorage at Ulul Is., Namonuito Atoll, Caroline Is. 8 13 SCUBA. February 14, 1967 R/V Horizon. Hokukous & J. Stewart
- Co 104 Lagoon, Eniwetak Atoll, Marshall Islands
- Co 106 Off Henry Island, Eniwetak Atoll, Marshall Islands. 27m Seaward reef. August 1968 Coll. T. Dana.
- Co 108 Lagoon inside Henry Island, Eniwetak Atoll, Marshall Islands. 5m August 1968 Coll. T. Dana.
- Co 110 N. end of Wilma, Eniwetak Atoll, Marshall Islands. 1-2m August 1968 Coll. T. Dana.
- Co 248 Carmarsel-316. Kusaie, Caroline Is. 0 12 SCUBA. March 21, 1967 15 min. R/V Horizon. W. Newman, J. Curray.
- Co 1154 Hydro Lab, Lucaya, Grand Bahamas Island. 26°30'N 78°45'W 13-27m SCUBA. 1973 Coll. A. Flechsig.
- Co 1764 Nakeb Shain, 10 km. North of Dahab, Egypt. 20m w/Pyrgomatidae (C 5951). July 1969 M. Goren

#### *Montipora aequi-tuberculata* Bernard

- Co 1011 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

#### *Montipora flabellata* Struder

- Co 1096 Kure Atoll. 28°25'N 178°20'W -Skin diving. March-June 1969 Coll. T. Dana.

#### *Montipora sulcata*

- Co 101 Carmarsel-313. Truk Lagoon, West of Moen Harbor, Caroline Is. 30 35 SCUBA. March 7, 1967 1515-1533. R/V Horizon. W. Newman, J. Stewart.

#### *Montipora venosa* (Ehrenberg)

- Co 1015 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

#### *Montipora verrilli* Vaughan

- Co 1016 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

#### *Montipora verrucosa*

- Co 105 Eniwetak Lagoon, Marshall Islands. Coll. T. Dana.

#### *Montipora verrucosa* (Lamarck)

- Co 1092 Kure Atoll. 28°25'N 178°20'W -Skin diving. March-June 1969 Coll. T. Dana.

## PORITIDAE

#### *Alveopora* sp.

- Co 214 Eniwetak Atoll, Marshall Islands. Coll. T. Dana.

#### *Alveopora verrilliana*

- Co 208 Carmarsel-303. West of Ulul Is., Namonuito Atoll, Caroline Is. 0 21 SCUBA. February 12, 1967 1440-1520. R/V Horizon. W. Newman, J. Stewart.

#### *Goniopora* sp.

- Co 207 Carmarsel-302. Off fantail at anchorage of ship W. of Ulul Island, Namonuito Atoll, Caroline Islands. 23-8m SCUBA. February 12, 1967 1050-1117. R/V Horizon. W. Newman, J. Stewart.
- Co 209 Carmarsel-306. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 8 13 SCUBA. February 14, 1967 R/V Horizon. Hokukous & J. Stewart.
- Co 210 Carmarsel-307. West of Ulul Island, Namonuito Atoll, Caroline Islands. 5 20 SCUBA. On Heliopora. February 15, 1967 1250-1330 R/V Horizon. W. Newman.
- Co 211 Carmarsel-313. Truk Lagoon, West of Moen Harbor, Caroline Islands. 30 35 SCUBA. March 7, 1967 1515-1533. R/V Horizon. W. Newman, J. Stewart.

*Porites* sp.

- Co 187 Carmarsel-306. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 8-13m SCUBA. February 14, 1967 R/V Horizon. Coll. Hokukous & J. Stewart.
- Co 189 Carmarsel-302. Off fantail at anchorage of ship West of Ulul Island, Namonuito Atoll, Caroline Islands. 23-8m SCUBA. February 12, 1967 1050-1117. R/V Horizon. Coll. W. Newman, J. Stewart.
- Co 190 Carmarsel-302. Off fantail at anchorage of ship West of Ulul Island, Namonuito Atoll, Caroline Islands. 23-8m SCUBA. February 12, 1967 1050-1117. R/V Horizon. Coll. W. Newman, J. Stewart.
- Co 195 Carmarsel-305. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 22-12m SCUBA. February 14, 1967 R/V Horizon. Coll. W. Newman, J. Stewart.
- Co 196 Carmarsel-305. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 22-12m SCUBA. February 14, 1967 R/V Horizon. Coll. W. Newman, J. Stewart.
- Co 200 Carmarsel-307. West of Ulul Island, Namonuito Atoll, Caroline Islands. 5-20m SCUBA. On Heliopora. February 15, 1967 1250-1330 R/V Horizon. Coll. W. Newman.
- Co 203 Carmarsel-315. S.E. side against reef edge of Lottin Harbor, Kusaie, Caroline Islands. 3-30m SCUBA. March 21, 1967 R/V Horizon. Coll. P. Crampton, J. Stewart.
- Co 204 Lagoon inside Henry Is, Eniwetak Atoll, Marshall Islands. 5m August 1968 Coll. T. Dana.
- Co 212 Gulf of Chiriqui, Panama
- Co 213 Puerto Penasco, Sonora, Mexico. Intertidal. Coll. T. Dana.
- Co 214 Eniwetak, Eniwetak Atoll, Marshall Islands. Coll. T. Dana.
- Co 215 Eniwetak, Eniwetak Atoll, Marshall Islands. Coll. T. Dana.
- Co 216 La Paz area, Gulf of California, Baja California Sur, Mexico
- Co 217 La Paz area, Gulf of California, Mexico
- Co 1749 Carmarsel-302. Off fantail at anchorage of ship W. of Ulul Island, Namonuito Atoll, Caroline Islands. 23-8m SCUBA. February 12, 1967 1050-1117. R/V Horizon. W. Newman, J. Stewart. w/Pyrgomatidae (C 5934).

*Porites andrewsi*

- Co 191 Carmarsel-305. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 22-12m SCUBA. February 14, 1967 R/V Horizon. Coll. W. Newman, J. Stewart.
- Co 186 Carmarsel-306. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 8-13m SCUBA. February 14, 1967 R/V Horizon. Coll. Hokukous & J. Stewart.

- Co 198 Carmarsel-303. West of Ulul Island, Namonuito Atoll, Caroline Islands. 0-21m SCUBA. February 12, 1967 1440-1520. R/V Horizon. Coll. W. Newman, J. Stewart.

*Porites cf australiensis* Vaughan

- Co 1027 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

*Porites compressa* Dana

- Co 1094 Kure Atoll. 28°25'N 178°20'W -Skin diving. March-June 1969 Coll. T. Dana.
- Co 1099 Kure Atoll. 28°25'N 178°20'W -Skin diving. March-June 1969 Coll. T. Dana.

*Porites evermanni* Vaughan

- Co 1101 Kure Atoll. 28°25'N 178°20'W -Skin diving. March-June 1969 Coll. T. Dana.

*Porites fragosa* Dana

- Co 1028 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

*Porites furcata*

- Co 1750 La Parguera, Puerto Rico. w/Pyrgomatidae (C 5886). December 16, 1963 Peter Glynn.

*Porites furcata* Lamarck

- Co 542 Hydro Lab, Lucaya, Grand Bahamas Island. 26°30'N 78°45'W 13-27m SCUBA. 1973 Coll. A. Flechsig.

*Porites hawaiiensis* Vaughan

- Co 1029 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

*Porites lichen*

- Co 84 West of Ulul Island, Namonuito Atoll, Caroline Islands. 5-20m SCUBA. On Heliopora. February 15, 1967 1250-1330 R/V Horizon. Coll. W. Newman.
- Co 199 Carmarsel-307. West of Ulul Island, Namonuito Atoll, Caroline Islands. 5-20m SCUBA. On Heliopora. February 15, 1967 1250-1330 R/V Horizon. Coll. W. Newman.

*Porites lichen* Dana

- Co 184 Carmarsel-306. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 8-13m SCUBA. February 14, 1967 R/V Horizon. Coll. Hokukous & J. Stewart.
- Co 188 Carmarsel-302. Off fantail at anchorage of ship West of Ulul Island, Namonuito Atoll, Caroline Islands. 23-8m SCUBA. February 12, 1967 1050-1117. R/V Horizon. Coll. W. Newman, J. Stewart.

- Co 202 Carmarsel-315. S.E. side against reef edge of Lottin Harbor, Kusaie, Caroline Islands. 3-30m SCUBA. March 21, 1967 R/V Horizon. Coll. P. Crampton, J. Stewart.
- Co 205 Carmarsel-316. Kusaie, Caroline Islands. 0-12m SCUBA. March 21, 1967 15 min. R/V Horizon. Coll. W. Newman, J. Curray.
- Co 220 Carmarsel-305. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 22-12m SCUBA. February 14, 1967 R/V Horizon. Coll. W. Newman, J. Stewart.
- Co 1030 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

*Porites lobata* Dana

- Co 289 S.W. Lagoon, Midway Island, N.W. Hawaiian Island. 1m Skindiving. 1968 R/V Agassiz. Coll. T. Dana.
- Co 1031 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.
- Co 1102 Kure Atoll. 28°25'N 178°20'W -Skin diving. March-June 1969 Coll. T. Dana.

*Porites lutea* Milne-Edwards

- Co 218 McKean Island. Coll. T. Dana.
- Co 1032 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

*Porites lutea* Milne-Edwards & Haime

- Co 1751 Eilat, Red Sea. w/Pyrgomatidae (C 5967). July 1969 Det. Y. Loya.
- Co 1752 Eilat, Red Sea. 30m w/Pyrgomatidae (C 5969). July 1969 Det. Y. Loya.
- Co 1753 Eilat, Red Sea. 20m w/Pyrgomatidae (C 5970). July 1969. Det. Y. Loya.

*Porites porites* var. *clavaria* Lamarck

- Co 1127 TEPE70-30. Agualagarna Is, Holandes Cay, San Blas Island, Panama. 9°35.9'N 78°46.9'W 0-20m SCUBA. September 27-Oct. 7, 1970 R/V Alpha Helix. Coll. W. Newman, T. Dana, S. Luke.

*Porites porites* var. *furcata* Lamarck

- Co 1128 TEPE70-30. Agualagarna Is, Holandes Cay, San Blas Island, Panama. 9°35.9'N 78°46.9'W 0-20m SCUBA. September 27-Oct. 7, 1970 R/V Alpha Helix. Coll. W. Newman, T. Dana, S. Luke.

*Porites porites* var. *divaricata* Lesneur

- Co 1130 TEPE70-30. Agualagarna Is, Holandes Cay, San Blas Island, Panama. 9°35.9'N 78°46.9'W 0-20m SCUBA. September 27-Oct. 7, 1970 R/V Alpha Helix. Coll. W. Newman, T. Dana, S. Luke.

*Porites (Synaraea) sp.*

- Co 194 Carmarsel-305. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 22-12m SCUBA. February 14, 1967 R/V Horizon. Coll. W. Newman, J. Stewart.
- Co 206 Carmarsel-316. Kusaie, Caroline Islands. 0-12m SCUBA. March 21, 1967 15 min. R/V Horizon. Coll. W. Newman, J. Curray.
- Co 1103 Kure Atoll. 28°25'N 178°20'W -Skin diving. March-June 1969 Coll. T. Dana.

*Porites (Synaraea) hawaiiensis* Vaughan

- Co 185 Carmarsel-306. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 8-13m SCUBA. February 14, 1967 R/V Horizon. Coll. Hokukous & J. Stewart.
- Co 192 Carmarsel-305. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 22-12m SCUBA. February 14, 1967 R/V Horizon. Coll. W. Newman, J. Stewart.

*Porites (Synaraea) horizontalata*

- Co 201 Carmarsel-313. Truk Lagoon, West of Moen Harbor, Caroline Islands. 30-35m SCUBA. March 7, 1967 1515-1533. R/V Horizon. Coll. W. Newman, J. Stewart.

*Porites (Synaraea) iwayamaensis*

- Co 197 Carmarsel-303. West of Ulul Island, Namonuito Atoll, Caroline Islands. 0-21m SCUBA. February 12, 1967 1440-1520. R/V Horizon. Coll. W. Newman, J. Stewart.

*Porites solida* (Forsk.)

- Co 1033 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

*Porites superfusa* Gardiner

- Co 1034 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

*Porites cf. tenuis*

- Co 219 Waimea Bay, Oahu, Hawaii. 3m August 1968 Coll. T. Dana.

*Porites undulata*

- Co 1754 Eilat, Red Sea. 7m w/Pyrgomatidae (C 5965). July 1969 Det. Y. Loya.

SIDERASTERIDAE

*Coscinaraea columna*

- Co 177 Eniwetak Atoll, Marshall Islands. Coll. T. Dana.

*Coscinaraea fossata*

Co 176 Lagoon side of Henry Island, Eniwetak Atoll, Marshall Islands. 5m August 1968 Coll. T. Dana.

*Psammocora explanatula*

Co 67 Henry Island, Eniwetak Atoll, Marshall Islands. 23-27m August 1968 Coll. T. Dana.

*Psammocora nierstraszi* Vander Horst

Co 66 Inter island channel, N. end of Wilma, Eniwetak Atoll, Marshall Islands. 1-2m August 1968 Coll. T. Dana.  
Co 101 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

*Psammocora stellata* (Verrill)

Co 1107 Kure Atoll. 28°25'N 178°20'W -Skin diving. March-June 1969 Coll. T. Dana.

*Psammocora (Stephanaria)*

Co 68 La Paz, Baja California Sur, Mexico  
Co 69 Isla Cano, Costa Rica (Pacific side). Coll. J. McCosker.  
Co 70 Gulf of Chiriqui, Panama. Coll. T. Dana.  
Co 71 Gulf of Chiriqui, Panama. Coll. T. Dana.

*Psammocora (Stephanaria) togiamensis*

Co 65 Henry Island, Eniwetak Atoll, Marshall Islands. 5m Lagoon. August 1968 Coll. T. Dana.  
Co 294 Eniwetak Atoll, Marshall Islands. Coll. T. Dana.

*Siderastrea siderea* (Ellis & Solander)

Co 544 Hydro Lab, Lucaya, Grand Bahamas Island. 26°30'N 78°45'W 13-27m SCUBA. 1973 Coll. A. Flechsig.

## AGARICIIDAE

Co 263 Carmarsel-302. Off fantail at anchorage of ship West of Ulul Island, Namonuito Atoll, Caroline Islands. 23-8m SCUBA. February 12, 1967 1050-1117. R/V Horizon. Coll. W. Newman, J. Stewart.  
Co 1155 Hydro Lab, Lucaya, Grand Bahamas Island. 26°30'N 78°45'W 13-27m SCUBA. 1973 Coll. A. Flechsig.

*Agaricia agaricites* (Linnaeus)

Co 538 Hydro Lab, Lucaya, Grand Bahamas Island. 26°30'N 78°45'W 13-27m SCUBA. 1973 Coll. A. Flechsig.

Co 1122 TEPE70-30. Agualagarna Is, Holandes Cay, San Blas Island, Panama. 9°35.9'N 78°46.9'W 0-20m SCUBA. September 27-Oct. 7, 1970 R/V Alpha Helix. Coll. W. Newman, T. Dana, S. Luke.

Co 1781 Eastern Dry Rocks, Key West, Florida. w/Pyrgomatidae (C 7764) Brooks.

*Agaricia agaricites purpurea* Lesson

Co 540 Hydro Lab, Lucaya, Grand Bahamas Island. 26°30'N 78°45'W 13-27m SCUBA. 1973 Coll. A. Flechsig.  
Co 1125 TEPE70-30. Agualagarna Is, Holandes Cay, San Blas Island, Panama. 9°35.9'N 78°46.9'W 0-20m SCUBA. September 27-Oct. 7, 1970 R/V Alpha Helix. Coll. W. Newman, T. Dana, S. Luke.

*Agaricia agaricites var. crassa* Verrill

Co 1121 TEPE70-30. Agualagarna Is, Holandes Cay, San Blas Island, Panama. 9°35.9'N 78°46.9'W 0-20m SCUBA. September 27-Oct. 7, 1970 R/V Alpha Helix. Coll. W. Newman, T. Dana, S. Luke.

*Agaricia fragilis* Dana

Co 546 Hydro Lab, Lucaya, Grand Bahamas Island. 26°30'N 78°45'W 13-27m SCUBA. 1973 Coll. A. Flechsig.  
Co 1124 TEPE70-30. Agualagarna Is, Holandes Cay, San Blas Island, Panama. 9°35.9'N 78°46.9'W 0-20m SCUBA. September 27-Oct. 7, 1970 R/V Alpha Helix. Coll. W. Newman, T. Dana, S. Luke.

*Leptoseris* sp.

Co 150 Gulf of Chiriqui, Panama.

cf. *Leptoseris* cf. *incrusters*

Co 135 Carmarsel-305. N.N.E. of anchorage at Ulul Is., Namonuito Atoll, Caroline Is. 22 12 SCUBA. February 14, 1967 R/V Horizon. W. Newman, J. Stewart.

*Leptoseris incrusters*

Co 140 Carmarsel-306. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 8-13m SCUBA. February 14, 1967 R/V Horizon. Coll. Hokukous & J. Stewart.  
Co 193 Carmarsel-305. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 22-12m SCUBA. February 14, 1967 R/V Horizon. Coll. W. Newman, J. Stewart.

*Leptoseris mycetoseroides* Wells

Co 137 Carmarsel-305. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 22-12m SCUBA. February 14, 1967 R/V Horizon. Coll. W. Newman, J. Stewart.  
Co 1019 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

*Pachyseris speciosa*

- Co 291 Carmarsel-313. Truk Lagoon, West of Moen Harbor, Caroline Islands. 30-35m SCUBA. March 7, 1967 1515-1533. R/V Horizon. Coll. W. Newman, J. Stewart.

*Pavona* sp.

- Co 133 Gulf of Chiriqui, Panama.  
Co 145 Gulf of Chiriqui, Panama.  
Co 148 Isla del Cano. Costa Rica. Coll. J. McCosker.

*Pavona (Polyastra) ponderosa*

- Co 134 Carmarsel-305. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 22-12m SCUBA. February 14, 1967 R/V Horizon. Coll. W. Newman, J. Stewart.

*Pavona (Pseudocolumnastraea) pollicata* Wells

- Co 139 Carmarsel-306. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 8-13m SCUBA. February 14, 1967 R/V Horizon. Coll. Hokukous & J. Stewart.

*Pavona cactus*

- Co 144 Palan, Caroline Islands

*Pavona* cf. *clivosa* Verrill

- Co 102 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

*Pavona clavus* (Dana)

- Co 141 Carmarsel-306. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 8-13m SCUBA. February 14, 1967 R/V Horizon. Coll. Hokukous & J. Stewart.  
Co 142 Carmarsel-307. West of Ulul Is., Namonuito Atoll, Caroline Is. 5 20 SCUBA. On Heliopora. February 15, 1967 1250-1330 R/V Horizon. W. Newman  
Co 1021 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.  
Co 1106 Kure Atoll. 28°25'N 178°20'W -Skin diving. March-June 1969 Coll. T. Dana.

*Pavona clivosa* Verrill

- Co 143 Carmarsel-315. S.E. side against reef edge of Lottin Harbor, Kusaie, Caroline Islands. 3-30m SCUBA. March 21, 1967 R/V Horizon. Coll. P. Crampton, J. Stewart.  
Co 145 Gulf of Chirirqui, Panama

*Pavona* cf. *gigantea*

- Co 147 La Paz area of Gulf of California, Baja California Sur, Mexico

*Pavona pollicata* Wells

- Co 1108 Kure Atoll. 28°25'N 178°20'W -Skin diving. March-June 1969 Coll. T. Dana.

*Pavona (Pseudocolumnastraea) pollicata*

- Co 139 Carmarsel-306. N.N.E. of anchorage at Ulul Is., Namonuito Atoll, Caroline Is. 8 13 SCUBA. February 14, 1967 R/V Horizon. Hokukous & J. Stewart

*Pavona varians* Verrill

- Co 100 Carmarsel-306. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 8-13m SCUBA. February 14, 1967 R/V Horizon. Coll. Hokukous & J. Stewart.  
Co 132 N. end of Wilma, Eniwetak Atoll, Marshall Islands. 1-2m Inter-island channel. August 1968 Coll. T. Dana.  
Co 136 Carmarsel-305. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 22-12m SCUBA. February 14, 1967 R/V Horizon. Coll. W. Newman, J. Stewart.  
Co 138 Carmarsel-302. Off fantail at anchorage of ship West of Ulul Island, Namonuito Atoll, Caroline Islands. 23-8m SCUBA. February 12, 1967 1050-1117. R/V Horizon. Coll. W. Newman, J. Stewart.

## FUNGIIDAE

- Co 1078 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

*Cycloseris vaughani*

- Co 155 Carmarsel-306. N.N.E. of anchorage at Ulul Is., Namonuito Atoll, Caroline Is. 8 13 SCUBA. February 14, 1967 R/V Horizon. Hokukous & J. Stewart.  
Co 162 Carmarsel-305. N.N.E. of anchorage at Ulul Is., Namonuito Atoll, Caroline Is. 22 12 SCUBA. February 14, 1967 R/V Horizon. W. Newman, J. Stewart

*Fungia (Ctenactis) echinata*

- Co 165 Carmarsel-302. Off fantail at anchorage of ship W. of Ulul Is., Namonuito Atoll, Caroline Is. 23 8 SCUBA. February 12, 1967 1050-1117. R/V Horizon. W. Newman, J. Stewart

*Fungia (Fungia) fungites*

- Co 153 Carmarsel-306. N.N.E. of anchorage at Ulul Is., Namonuito Atoll, Caroline Is. 8 13 SCUBA. February 14, 1967 R/V Horizon. Hokukous & J. Stewart



- Co 156 Carmarsel-302. Off fantail at anchorage of ship West of Ulul Island, Namonuito Atoll, Caroline Islands. 23-8m SCUBA. February 12, 1967 1050-1117. R/V Horizon. Coll. W. Newman, J. Stewart.

*Fungia (Pleuractis) sp.*

- Co 152 Carmarsel-306. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 8-13m SCUBA. February 14, 1967 R/V Horizon. Coll. Hokukous & J. Stewart.
- Co 159 Carmarsel-303. West of Ulul Is., Namonuito Atoll, Caroline Is. 0 21 SCUBA. February 12, 1967 1440-1520. R/V Horizon. W. Newman, J. Stewart
- Co 161 Carmarsel-305. N.N.E. of anchorage at Ulul Is., Namonuito Atoll, Caroline Is. 22 12 SCUBA. February 14, 1967 R/V Horizon. W. Newman, J. Stewart
- Co 163 Carmarsel-307. West of Ulul Island, Namonuito Atoll, Caroline Islands. 5-20m SCUBA. On Heliopora. February 15, 1967 1250-1330 R/V Horizon. Coll. W. Newman.

*Fungia (Pleuractis) scutaria*

- Co 164 Carmarsel-307. West of Ulul Is., Namonuito Atoll, Caroline Is. 5 20 SCUBA. On Heliopora. February 15, 1967 1250-1330 R/V Horizon. W. Newman.

*Fungia (Verrillofungia) sp.*

- Co 154 Carmarsel-306. N.N.E. of anchorage at Ulul Is., Namonuito Atoll, Caroline Is. 8 13 SCUBA. February 14, 1967 R/V Horizon. Hokukous & J. Stewart.
- Co 157 Carmarsel-302. Off fantail at anchorage of ship W. of Ulul Is., Namonuito Atoll, Caroline Is. 23 8 SCUBA. February 12, 1967 1050-1117. R/V Horizon. W. Newman, J. Stewart.
- Co 158 Carmarsel-303. West of Ulul Island, Namonuito Atoll, Caroline Islands. 0-21m SCUBA. February 12, 1967 1440-1520. R/V Horizon. Coll. W. Newman, J. Stewart.
- Co 160 Carmarsel-305. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 22-12m SCUBA. February 14, 1967 R/V Horizon. Coll. W. Newman, J. Stewart.
- Co 1189 Panama Basin, Panama. 5°9.8'N 81°41.2'W 3900-4000m 40' otter trawl. October 8, 1981 R/V Melville. Coll. K. Smith. Det. S. Cairns 4/92.

*Fungia scutaria* Lamarck

- Co 1024 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.
- Co 1109 Kure Atoll. 28°25'N 178°20'W -Skin diving. March-June 1969 Coll. T. Dana.

*Fungiacyathus marenzelleri* (Vaughan 1906)

- Co 1233 JEAN CHARCOT BIOGAS VI CP 14. N. Atlantic. 47°32'N 9°36'W 4237m October 23, 1974 H. Zibrowius /75.

*Fungiacyathus marzenelleri*

- Co 944 MET Sta. 133. West of Patton Escarpment. 32°25'N 120°40'W 3689-3632m 40' otter trawl. February 7, 1981 R/V N. Horizon. Coll. K. Smith, S. Luke. Det. S. Cairns 4/92.
- Co 1268 MV70-III-6. West of Patton Escarpment. 31°20'N 120°9'W 3706-3806m 25' otter trawl. March 23, 1970 R/V Melville. Coll. F. Rokop, S. Luke. Det. S. Cairns 4/92.
- Co 1269 MV67-II-22. S.W. of Farallon Island, & West of Pioneer Seamount, California. 37°18'N 123°53.3'W 3592-3799m 41' otter trawl. June 14-15, 1965 1858-0220. R/V T. Washington. Coll. C. Hubbs. Det. S. Cairns 4/92.
- Co 127 SIO70-22. West of Patton Escarpment. 31°12'N 119°37'W 3600-3676m 25' otter trawl. Mud. December 18, 1969 R/V Melville. Coll. C. Hubbs, S. Luke. Det. S. Cairns 4/92.
- Co 1272 MV66-II-4. Off Eureka, California. 40°30.5'N 125°45.2'W 2999-3017m 16' otter trawl. May 22, 1966 Coll. R. Wisner. Det. S. Cairns 4/92.

*Fungiacyathus pseudostephanus* Keller

- Co 368 MV72-II-32. Off Punta San Juan, Peru. 15°47'S 76°7'W 3475m 25' otter trawl. Mud. May 10, 1972 R/V T. Washington. Coll. S. Luke. Det. S. Cairns 4/92.

*Halomitra philippinensis* Studer

- Co 168 Carmarsel-306. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 8-13m SCUBA. February 14, 1967 R/V Horizon. Coll. Hokukous & J. Stewart.
- Co 170 Seaward of Henry Island, Eniwetok Atoll, Marshall Islands. 27m SCUBA. August 1968 Coll. T. Dana.
- Co 1025 Coll. J. Maragos.

*Hepolitha limax*

- Co 166 Carmarsel-306. N.N.E. of anchorage at Ulul Is., Namonuito Atoll, Caroline Is. 8 13 SCUBA. February 14, 1967 R/V Horizon. Hokukous & J. Stewart.
- Co 172 Carmarsel-307. West of Ulul Island, Namonuito Atoll, Caroline Islands. 5-20m SCUBA. On Heliopora. February 15, 1967 1250-1330 R/V Horizon. Coll. W. Newman.

*Herpetoglossa simplex*

- Co 175 Carmarsel-305. N.N.E. of anchorage at Ulul Is., Namonuito Atoll, Caroline Is. 22 12 SCUBA. February 14, 1967 R/V Horizon. W. Newman, J. Stewart. Co 173 Carmarsel-303. West of Ulul Island, Namonuito Atoll, Caroline Islands. 0-21m SCUBA. February 12, 1967 1440-1520. R/V Horizon. Coll. W. Newman, J. Stewart.

*Parahalomitra robusta* (Quelch)

- Co 167 Carmarsel-306. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 8-13m SCUBA. February 14, 1967 R/V Horizon. Coll. Hokukous & J. Stewart.  
Co 171 Carmarsel-307. West of Ulul Island, Namonuito Atoll, Caroline Islands. 5-20m SCUBA. On Heliopora. February 15, 1967 1250-1330 R/V Horizon. Coll. W. Newman.  
Co 173 Carmarsel-303. West of Ulul Is., Namonuito Atoll, Caroline Is. 0 21 SCUBA. February 12, 1967 1440-1520. R/V Horizon. W. Newman, J. Stewart.  
Co 174 Carmarsel-305. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 22-12m SCUBA. February 14, 1967 R/V Horizon. Coll. W. Newman, J. Stewart.  
Co 1026 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

*Polyphyllia talpina*

- Co 169 Carmarsel-306. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 8-13m SCUBA. February 14, 1967 R/V Horizon. Coll. Hokukous & J. Stewart.

## MICRABACIIDAE

*Leptopenus discus* Wells 1936

- Co 927 MET Sta. 123. West of Patton Escarpment. 32°35'N 120°38'W 3634-3713m 40' otter trawl. Abyssal plain. February 5, 1981 2300-0640. R/V New Horizon. Coll. Ken Smith, S. Luke. Det. S. Cairns 4/92.  
Co 1271 MV70-III-1. West of Patton Escarpment. 31°25'N 120°14'W 3950-3880m IKMT on bottom. March 21, 1970 R/V Melville. Coll. F. Rokop, S. Luke. Det. S. Cairns 4/92.  
Co 135 SIO70-22. West of Patton Escarpment. 31°12'N 119°37'W 3600-3676m 25' otter trawl. Mud. December 18, 1969 R/V Melville. Coll. C. Hubbs, S. Luke. Det. S. Cairns 4/92.  
Co 1353 MV72-II-32. Off Punta San Juan, Peru. 15°47'S 76°7'W 3475m 25' otter trawl. Mud. May 10, 1972 R/V T. Washington. Coll. S. Luke. Det. S. Cairns 4/92.

## RHIZANGIIDAE

*Astrangia* sp.

- Co 458 RR65-96. S.E. of Punta Coyote, Bahia de La Paz, Baja Calif. Sur, Mexico. 24°27'N 110°38'W 46m 40' otter trawl. July 23, 1965 2247-2327. Coll. R. Rosenblatt. Det. S. Cairns 4/92.  
Co 1298 San Onofre outfall, California. 7m October 1971.  
Co 1351 MV71-I-1. Isla de Afuera, Isla Guadalupe, Baja Calif. Norte, Mexico. 28°51.5'N 118°16.3'W 95-81m 6' Sigsbee trawl. May 18, 1971 1603-1615. R/V Agassiz. Coll. C. Hubbs, S. Luke. Det. S. Cairns 4/92.

*Astrangia ca. lajollaensis* Durham 1947

- Co 134 SIOM-39-1. La Jolla kelp bed, La Jolla, California. 30m April 16, 1957 Coll. J. Jordan & D. Detrich. Det. S. Cairns 4/92.

*Astrangia cortezi* Durham & Barnard

- Co 1318 U.C. Museum of Paleontology B-7560

*Astrangia lajollaensis* Durham 1947

- Co 980 San Onofre, California. 5-20m On rock. December 1970 Coll. J.A. Haugsness. Det. S. Cairns 4/92.  
Co 117 N. side of Middle Island, Islas Coronados, Baja California Norte, Mexico. 15m SCUBA. August 19, Coll. Tim Gerrodette. Det. S. Cairns 4/92.  
Co 1174 Cod Hole, La Jolla Canyon, La Jolla, California. 37m SCUBA. January 24, 1976 Coll. Tim Gerrodette. Det. S. Cairns 4/92.  
Co 1291 Middle jetty, Missiom Bay, San Diego, California. January 25, 1958 Coll. F.J. Rohlf. Det. John Bythell 1/82.  
Co 1296 Scripps Canyon, La Jolla, California. 30m Spring 1968 John Bythell 12/82.  
Co 1355 Santa Cruz Island, California. Coll. Tim Gerrodette. Det. S. Cairns.

*Astrangia pedersenii* Verrill

- Co 1319 U.C. Museum of Paleontology B-7559

*Hoplantia durotrix* Gosse 1860

- Co 1239 Play de La Garrofa, W. Almeria, Alboran Sea, S. Spain. Lower side of big rock. Summer 1975 Coll. A. Svoboda. Det. H. Zibrowius /75.

cf. *Lophelia* sp.

- Co 417 40 Mile Bank, San Diego, California. 32°43'N 118°12'W 110m Dredge. March 22, 1938 "E.W. Scripps". Coll. F.P. Shepard. Det. S. Cairns 4/92.

*Paracyathus stearnsii* Verrill 1869

Co 441 Farnsworth Bank, Catalina Island, California.  
28-30m SCUBA. Coll. J. McCosker. Det. S.  
Cairns 4/92.

*Dichocoenia stokesii* Edwards & Haime

Co 552 Hydro Lab, Lucaya, Grand Bahamas  
Island. 26°30'N 78°45'W 13-27m SCUBA.  
1973 Coll. A. Flechsig.

## OCULINIDAE

*Acrhelia horrescens*

Co 268 Eniwetak Atoll, Marshall Islands. 10m  
SCUBA. Lagoon pinnacle. May 1972 Coll. T.  
Dana.

*Galaxea* sp.

Co 266 Carmarsel-316. Kusaie, Caroline Islands. 0-  
12m SCUBA. March 21, 1967 15 min. R/V  
Horizon. Coll. W. Newman, J. Curray.

*Galaxea fascicularis*

Co 264 Carmarsel-315. S.E. side against reef edge of  
Lottin Harbor, Kusaie, Caroline Islands. 3-  
30m SCUBA. March 21, 1967 R/V Horizon.  
Coll. P. Crampton, J. Stewart.

*Galaxea fascicularis* Oken

Co 1785 Singapore. w/Pyrgomatidae (C 7765)

## PECTINIIDAE

*Echinophyllia aspera* Ellis & Solander

Co 269 Eniwetak Atoll, Marshall Islands. Lagoon.  
May 25, 1969 Coll. T. Dana.

*Echinophyllia aspera* Ellis & Solander

Co 1088 McKean Island. 3°36'S 174°8'W 0-26m  
Hand collected. SCUBA. Coral reef atoll.  
Summer 1968. Coll. T. Dana.

*Mycedium tenuicostatum*

Co 265 Carmarsel-315. S.E. side against reef edge of  
Lottin Harbor, Kusaie, Caroline Islands. 3-  
30m SCUBA. March 21, 1967 R/V Horizon.  
Coll. P. Crampton, J. Stewart.

*Oxypora lacera*

Co 273 Carmarsel-313. Truk Lagoon, West of Moen  
Harbor, Caroline Islands. 30-35m SCUBA.  
March 7, 1967 1515-1533. R/V Horizon. Coll.  
W. Newman, J. Stewart.

## MEANDRINIDAE

*Dichocoenia merriami* var. *crassisepta*

Co 1819 Carrizo Creek, Fish Mountains, Imperial  
Co., California. FOSSIL. On  
PYRGOMATIDAE (C 7766). Coll.  
Sternberg.

## TROCHOSMILIIDAE

Co 1132 TEPE70-30. Agualagarna Is, Holandes Cay,  
San Blas Island, Panama. 9°35.9'N 78°46.9'W  
0-20m SCUBA. September 27-Oct. 7, 1970  
R/V Alpha Helix. Coll. W. Newman, T. Dana,  
S. Luke.

## MUSSIDAE

Co 109 McKean Island. 3°36'S 174°8'W 0-26m Hand  
collected. SCUBA. Coral reef atoll. Summer  
1968. Coll. T. Dana.

*Acanthastrea echinata*

Co 270 Henry Island, Eniwetak Atoll, Marshall  
Islands. 5m Lagoon. August 1968 Coll. T.  
Dana.

Co 1769 Eilat, Red Sea. w/Pyrgomatidae (C 5966).  
July 1969. Det. Y. Loya.

*Isophyllastrea rigida* (Dana)

Co 547 Hydro Lab, Lucaya, Grand Bahamas  
Island. 26°30'N 78°45'W 13-27m SCUBA.  
1973 Coll. A. Flechsig.

*Isophyllia multiflora* Verrill

Co 548 Hydro Lab, Lucaya, Grand Bahamas  
Island. 26°30'N 78°45'W 13-27m SCUBA.  
1973 Coll. A. Flechsig.

*Lobophyllia*

Co 262 Carmarsel-302. Off fantail at anchorage of  
ship West of Ulul Island, Namonuito Atoll,  
Caroline Islands. 23-8m SCUBA. February  
12, 1967 1050-1117. R/V Horizon. Coll. W.  
Newman, J. Stewart.

*Lobophyllia corymbasa*

Co 293 Inter island channel, N. end of Wilma,  
Eniwetak Atoll, Marshall Islands. 1-2m  
August 1968 Coll. T. Dana.

*Lobophyllia costata*

Co 271 Off Henry Island, Eniwetak Atoll, Marshall  
Islands. 27m August 1968 T. Dana.

*Lobophyllia costata* (Dana)

Co 1044 McKean Island. 3°36'S 174°8'W 0-26m  
Hand collected. SCUBA. Coral reef atoll.  
Summer 1968. Coll. T. Dana.

*Lobophyllia hemprichii*

Co 272 Off Henry Island, Eniwetak Atoll, Marshall Islands. 27m Seaward reef. August 1968 Coll. T. Dana.

*Mycetophyllia*

Co 536 Hydro Lab, Lucaya, Grand Bahamas Island. 26°30'N 78°45'W 13-27m SCUBA. 1973 Coll. A. Flechsig.

*Mycetophyllia lamarckana* Milne-Edwards & Haime

Co 1772 Florida Keys. w/Pyrgomatidae (C 6006)

*Scolymia lacera* (Pallas)

Co 539 Hydro Lab, Lucaya, Grand Bahamas Island. 26°30'N 78°45'W 13-27m SCUBA. 1973 Coll. A. Flechsig.

Co 1118 TEPE70-30. Agualagarna Is, Holandes Cay, San Blas Island, Panama. 9°35.9'N 78°46.9'W 0-20m SCUBA. September 27-Oct. 7, 1970 R/V Alpha Helix. Coll. W. Newman, T. Dana, S. Luke.

*Symphyllia* sp.

Co 267 Carmarsel-316. Kusaie, Caroline Islands. 0-12m SCUBA. March 21, 1967 15 min. R/V Horizon. Coll. W. Newman, J. Curry.

## MERULINIDAE

*Hydnophora microconos*

Co 255 Henry Island, Eniwetak Atoll, Marshall Islands. 5m Lagoon. August 1968 Coll. T. Dana.

*Hydnophora rigida*

Co 243 Carmarsel-313. Truk Lagoon, West of Moen Harbor, Caroline Is. 30 35 SCUBA. March 7, 1967 1515-1533. R/V Horizon. W. Newman, J. Stewart.

Co 244 Carmarsel-315. S.E. side against reef edge of Lottin Harbor, Kusaie, Caroline Islands. 3-30m SCUBA. March 21, 1967 R/V Horizon. Coll. P. Crampton, J. Stewart.

*Hydnophora exesa*

Co 257 Eniwetak Atoll, Marshall Islands. August 1968 Coll. T. Dana.

*Merulina amplicata*

Co 259 Carmarsel-305. N.N.E. of anchorage at Ulul Is., Namonuito Atoll, Caroline Is. 22 12 SCUBA. February 14, 1967 R/V Horizon. W. Newman, J. Stewart.

Co 260 Carmarsel-306. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 8-13m SCUBA. February 14, 1967 R/V Horizon. Coll. Hokukous & J. Stewart.

*Merulina ampliata* E & Solander

Co 1782 AMNH 3214. East Indies. w/Pyrgomatidae (C 7761).

Co 1783 AMNH 1868. Singapore. w/Pyrgomatidae (C 7756). Coll. Barnham.

*Sapophyllia cylindrica*

Co 261 Carmarsel-307. West of Ulul Island, Namonuito Atoll, Caroline Islands. 5-20m SCUBA. On Heliopora. February 15, 1967 1250-1330 R/V Horizon. Coll. W. Newman.

Co 258 Carmarsel-305. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 22-12m SCUBA. February 14, 1967 R/V Horizon. Coll. W. Newman, J. Stewart.

## FAVIIDAE

Co 224 Carmarsel-305. N.N.E. of anchorage at Ulul Is., Namonuito Atoll, Caroline Is. 22 12 SCUBA. February 14, 1967 R/V Horizon. W. Newman, J. Stewart

Co 239 Eniwetak Atoll, Marshall Islands. Coll. T. Dana.

Co 243 Carmarsel-313. Truk Lagoon, West of Moen Harbor, Caroline Islands. 30-35m SCUBA. March 7, 1967 1515-1533. R/V Horizon. Coll. W. Newman, J. Stewart.

Co 1131 TEPE70-30. Agualagarna Is, Holandes Cay, San Blas Island, Panama. 9°35.9'N 78°46.9'W 0-20m SCUBA. September 27-Oct. 7, 1970 R/V Alpha Helix. Coll. W. Newman, T. Dana, S. Luke.

*Asterosmia marchadi* (Chevalier 1966)

Co 1229 METEOR M36-95/ES 142. West Africa. 25°14'N 15°45'W 85m February 22, 1975 H. Zibrowius /75.

*Cladocora arbuscula* Leseur

Co 1129 TEPE70-30. Agualagarna Is, Holandes Cay, San Blas Island, Panama. 9°35.9'N 78°46.9'W 0-20m SCUBA. September 27-Oct. 7, 1970 R/V Alpha Helix. Coll. W. Newman, T. Dana, S. Luke.

*Cladocora caespitosa* (Linnaeus 1767)

Co 1227 200 m. West of Lighthouse, Cabo de Gata, Alboran Sea, S. Spain. 8m Vertical rock. Summer 1975 Coll. A. Svoboda. Det. H. Zibrowius /75.

*Cladocora debilis* Milne-Edwards 1849

Co 123 METEOR M36-94/ES 141. West Africa. 24°58'N 15°37'W 50m February 21, 1975 H. Zibrowius /75.

*Cyphastrea* sp.

- Co 253 Off Henry Island, Eniwetak Atoll, Marshall Islands. 5m August 1968 Coll. T. Dana.  
 Co 1775 A Tur, Red Sea. 10m w/Pyrgomatidae (C 5980). September 20, 1967 Fishelson.  
 Co 1776 Ras A Tantar, Red Sea. w/Pyrgomatidae (C 5977). October 15, 1968

*Cyphastrea chalcidicum*

- Co 1761 Eilat, Red Sea. 15m w/Pyrgomatidae (C 5953) July 1969 Det. Y. Loya.  
 Co 1762 Eilat, Red Sea. w/Pyrgomatidae (C 5954). July 1969 Det. Y. Loya.  
 Co 1763 Eilat, Red Sea. w/Pyrgomatidae (C 5955). July 1969 Det. Y. Loya.

*Colophyllia* cf. *Natans* Muller 1838

- Co 1784 #320. w/Pyrgomatidae (C 7762)

*Cyphastrea microphthalmalma* (Lamarck)

- Co 1018 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

*Cyphastrea ocellina* (Dana)

- Co 1095 69/06/1. S.E. San Nicolas Island, California. 1189-732m Dredge #15. June 1969 R/V Agassiz. Coll. Edwin Alison.

*Cyphastrea ocellina* (Dana)

- Co 1098 Kure Atoll. 28°25'N 178°20'W -Skin diving. March-June 1969 Coll. T. Dana.

*Cyphastrea serailia*

- Co 1777 Dahab, Red Sea. w/Pyrgomatidae (C 5975). October 10, 1968 Fishelson.

*Dichelaspis* sp.

- Co 549 Hydro Lab, Lucaya, Grand Bahamas Island. 26°30'N 78°45'W 13-27m SCUBA. 1973 Coll. A. Flechsig.

*Echinopora*

- Co 1774 Shurat El Mankata, Red Sea. w/Pyrgomatidae (C 5976). September 15, 1967 Fishelson.

*Echinopora gemmacea*

- Co 1758 Eilat, Red Sea. w/Pyrgomatidae (C 5952). July 1969 Det. Y. Loya.  
 Co 1759 Eilat, Red Sea. w/Pyrgomatidae (C 5958). July 1969 Det. Y. Loya.  
 Co 1760 Ras-Muhammed, Red Sea. w/Pyrgomatidae (C 5960). July 1969 Det. Y. Loya

*Echinopora lamellosa*

- Co 241 Carmarsel-305. N.N.E. of anchorage at Ulul Is., Namonuito Atoll, Caroline Is. 22 12 SCUBA. February 14, 1967 R/V Horizon. W. Newman, J. Stewart

- Co 256 Off Henry Island, Eniwetak Atoll, Marshall Islands. 27m Seaward reef. August 1968 Coll. T. Dana.

*Favia* sp.

- Co 222 Carmarsel-305. N.N.E. of anchorage at Ulul Is., Namonuito Atoll, Caroline Is. 22 12 SCUBA. February 14, 1967 R/V Horizon. W. Newman, J. Stewart.  
 Co 235 Henry Island, Eniwetak Atoll, Marshall Islands. 5m Lagoon. August 1968 Coll. T. Dana.  
 Co 228 Carmarsel-302. Off fantail at anchorage of ship W. of Ulul Is., Namonuito Atoll, Caroline Is. 23 8 SCUBA. February 12, 1967 1050-1117. R/V Horizon. W. Newman, J. Stewart.  
 Co 238 Reef off Henry Island, Eniwetak Atoll, Marshall Islands. 5m SCUBA. August 1968 Coll. T. Dana.

*Favia favus* (Forsk.)

- Co 1766 Eilat, Red Sea. 30m w/Pyrgomatidae (C 5961). July 1969 Det. Y. Loya.

*Favia fragum* (Esper)

- Co 553 Hydro Lab, Lucaya, Grand Bahamas Island. 26°30'N 78°45'W 13-27m SCUBA. 1973 Coll. A. Flechsig.

*Favia pallida*

- Co 221 Carmarsel-305. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 22-12m SCUBA. February 14, 1967 R/V Horizon. Coll. W. Newman, J. Stewart.  
 Co 229 Carmarsel-306. N.N.E. of anchorage at Ulul Is., Namonuito Atoll, Caroline Is. 8 13 SCUBA. February 14, 1967 R/V Horizon. Hokukous & J. Stewart.

*Favia stelligera*

- Co 223 Carmarsel-305. N.N.E. of anchorage at Ulul Is., Namonuito Atoll, Caroline Is. 22 12 SCUBA. February 14, 1967 R/V Horizon. W. Newman, J. Stewart.  
 Co 231 Carmarsel-307. West of Ulul Island, Namonuito Atoll, Caroline Islands. 5-20m SCUBA. On Heliopora. February 15, 1967 1250-1330 R/V Horizon. Coll. W. Newman.  
 Co 233 Carmarsel-316. Kusaie, Caroline Is. 0 12 SCUBA. March 21, 1967 15 min. R/V Horizon. W. Newman, J. Curray.

*Favites abdita*

- Co 178 N. end of Wilma, Eniwetak Atoll, Marshall Islands. Reef flat. August 1968 Coll. T. Dana.  
 Co 1745 Eilat, Red Sea. w/Pyrgomatidae. (C 5956). July 1969 Det. Y. Loya.  
 Co 1747 Ras Burka, Red Sea. w/Pyrgomatidae (C 5971). June 1971. Fishelson.

*Favites abdita* var. *halicora*

Co 182 Carmarsel-302. Off fantail at anchorage of ship West of Ulul Island, Namonuito Atoll, Caroline Islands. 23-8m SCUBA. February 12, 1967 1050-1117. R/V Horizon. Coll. W. Newman, J. Stewart.

*Favites halicora*

Co 1746 Eilat, Red Sea. w/Pyrgomatidae (C 5962). July 1969 Det. Y. Ioya.

*Favites pentagoma*

Co 1748 Ras Kanisa, Red Sea. w/Pyrgomatidae (C 5972). October 8, 1971 Fishelson.

*Favites pentagona*

Co 181 Carmarsel-316. Kusaie, Caroline Islands. 0-12m SCUBA. March 21, 1967 15 min. R/V Horizon. Coll. W. Newman, J. Curray.

*Favites pentagona* (Esper)

Co 1042 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

*Favites virens*

Co 179 Off Henry Island, Eniwetak Atoll, Marshall Islands. 27m Seaward side reef. August 1968 Coll. T. Dana.

*Goniastrea pectinata*

Co 226 Carmarsel-305. N.N.E. of anchorage at Ulul Is., Namonuito Atoll, Caroline Is. 22 12 SCUBA. February 14, 1967 R/V Horizon. W. Newman, J. Stewart.

Co 227 Carmarsel-302. Off fantail at anchorage of ship W. of Ulul Is., Namonuito Atoll, Caroline Is. 23 8 SCUBA. February 12, 1967 1050-1117. R/V Horizon. W. Newman, J. Stewart.

Co 234 Carmarsel-315. S.E. side against reef edge of Lottin Harbor, Kusaie, Caroline Islands. 3-30m SCUBA. March 21, 1967 R/V Horizon. Coll. P. Crampton, J. Stewart.

*Goniastrea retiformis*

Co 225 Carmarsel-305. N.N.E. of anchorage at Ulul Is., Namonuito Atoll, Caroline Is. 22 12 SCUBA. February 14, 1967 R/V Horizon. W. Newman, J. Stewart.

Co 230 Carmarsel-306. N.N.E. of anchorage at Ulul Is., Namonuito Atoll, Caroline Is. 8 13 SCUBA. February 14, 1967 R/V Horizon. Hokukous & J. Stewart.

Co 232 Carmarsel-316. Kusaie, Caroline Is. 0 12 SCUBA. March 21, 1967 15 min. R/V Horizon. W. Newman, J. Curray.

Co 236 Inter island channel, N. end of Wilma, Eniwetak Atoll, Marshall Islands. 1-2m August 1968 Coll. T. Dana.

*Hydophora microconos*

Co 288 McKean Island, Phoenix Islands. Reef flat. 1969.

*Leptastrea* sp.

Co 254 Henry Island, Eniwetak Atoll, Marshall Islands. 5m Lagoon. August 1968 Coll. T. Dana.

*Leptastrea purpurea* (Dana)

Co 1017 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

*Leptoria phrygia*

Co 245 Carmarsel-315. S.E. side against reef edge of Lottin Harbor, Kusaie, Caroline Is. 3 30 SCUBA. March 21, 1967 R/V Horizon. P. Crampton, J. Stewart.

Co 246 Carmarsel-316. Kusaie, Caroline Is. 0 12 SCUBA. March 21, 1967 15 min. R/V Horizon. W. Newman, J. Curray.

*Manicina areolata* (Linnaeus)

Co 112 TEPE70-30. Agualagarna Is, Holandes Cay, San Blas Island, Panama. 9°35.9'N 78°46.9'W 0-20m SCUBA. September 27-Oct. 7, 1970 R/V Alpha Helix. Coll. W. Newman, T. Dana, S. Luke.

*Montastrea cavernosa* (Linnaeus)

Co 537 Hydro Lab, Lucaya, Grand Bahamas Island. 26°30'N 78°45'W 13-27m SCUBA. 1973 Coll. A. Flechsig.

*Orbicella sukunai* Hoffmeister & Ladd

Co 174 L344A. Tuvutha, Lau, East Fiji

*Platygyra*

Co 1778 A Tur, Red Sea. 20m w/Pyrgomatidae (C 5979). September. 20, 1967 Fishelson.

Co 1780 A Tur, Red Sea. 20m w/Pyrgomatidae (C 5978). September. 20, 1967 Fishelson.

*Platygyra daedalea* (Ellis & Solander)

Co 104 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana.

Co 247 Carmarsel-316. Kusaie, Caroline Is. 0 12 SCUBA. March 21, 1967 15 min. R/V Horizon. W. Newman, J. Curray.

*Platygyra lemellina*

Co 1755 Eilat, Red Sea. w/Pyrgomatidae (C 5957). July 1969 Det. Y. Loya.

Co 1756 Eilat, Red Sea. w/Pyrgomatidae (C 5963). July 1969 Y. Loya.

Co 1757 Eilat, Red Sea. w/Pyrgomatidae (C 5964). July 1969 Det. Y. Loya.

*Platygyra sinesis*

Co 242 Carmarsel-307. West of Ulul Is., Namonuito Atoll, Caroline Is. 5 20 SCUBA. On Heliopora. February 15, 1967 1250-1330 R/V Horizon. W. Newman.

*Plesiastrea laxa*

Co 1765 Eilat, Red Sea. w/Pyrgomatidae (C 5959). July 1969. Det. Y. Loya.

*Plesiastrea versipora*

Co 180 Henry Island, Eniwetak Atoll, Marshall Islands. 5m Lagoon. August 1968 Coll. T. Dana.  
Co 183 Carmarsel-306. N.N.E. of anchorage at Ulul Island, Namonuito Atoll, Caroline Islands. 8-13m SCUBA. February 14, 1967 R/V Horizon. Coll. Hokukous & J. Stewart.

## FLABELLIDAE

*Flabellum alabastrum* Moseley

Co 1242 SMBA Challenger AT 192. 12B/81. West of Scotland. 57°21'N 12°2'W 1862m Agassiz trawl. August 18, 1981.

*Caryophyllia* sp.

Co 1275 Southern Borderland III Sta. SOB 5. West of Punta Banda, Baja Calif. Norte, Mexico. 31°18'N 117°37'W 2068-2086m 30' otter trawl. February 13, 1960 1530-1700. Coll. R. Parker & Yonge. Det. S. Cairns 4/92.

*Caryophyllia alaskensis* Vaughan 1941

Co 1299 No data

*Caryophyllia arnoldi* Vaughan 1900

Co 641 Haul 3181. Off San Diego, California. 32°28.5'N 117°15.3'W 55m Green mud. February 10, 1912 1440-1500 Coll. Agassiz. Det. S. Cairns 4/92.  
Co 1248 Haul 1531. 32°46.5'N 118°20.5'W 505m Black mud. July 7, 1908 0730-0840 S. Cairns 4/92.  
Co 1354 Shepard No. 69. 40 Mile Bank off San Diego, California. 32°N 117°56.2'W 183m Dredge. June 10, 1938 "E.W. Scripps". S. Cairns 4/92.

*Caryophyllia inornata* (Duncan 1878)

Co 1235 Playa de La Garrofa, W. Almeria, Alboran Sea, S. Spain. 10m Lower side of big rock. Summer 1975 Coll. A. Svoboda. Det. H. Zibrowius /75.  
Co 1237 Manna della Lobra, Scoglio Verece, Peninsula di Sorronto, South of Naples, Italy. 44-55m Overhang. May 28, 1974 H. Zibrowius /75.

*Coenocyathus* sp.

Co 1177 Scripps Canyon, La Jolla, California. 60m SCUBA. Under overhang. April 5, 1983 Coll. R. Schottle.

*Coenocyathus bowersi* Vaughan 1906

Co 999 SL 49. Sea Lab of Scripps Inst. Pier, in Scripps Canyon, La Jolla, California. 77-13m From rim. October 2, 1965 J. Bythell.  
Co 1168 Bird Rock, Isthmus, Catalina Island, California. 17m SCUBA. June 5, Coll. Tim Gerrodette. Det. S. Cairns 4/92.  
Co 1175 Avalon Bay, Catalina Island, California. 30-33m SCUBA. Hull of wreck M/V Valiant. April 17, 1983 Coll. J. Bythell. Det. J. Bythell.  
Co 1301 U.C. Museum of Paleontology B-7464  
Co 1309 MV71-I-1. Isla de Afuera, Isla Guadalupe, Baja Calif. Norte, Mexico. 28°51.5'N 118°16.3'W 95-81m 6' Sigsbee trawl. May 18, 1971 1603-1615. R/V Agassiz. Coll. C. Hubbs, S. Luke. Det. S. Cairns 4/92.

*Desmophyllum cristagalli* Milne

## Edwards &amp; Haime 1848

Co 404 Shepard No. 69. 40 Mile Bank off San Diego, California. 32°N 117°56.2'W 183m Dredge. June 10, 1938 "E.W. Scripps". S. Cairns 4/92.  
Co 945 Off S. end of 9 Mile Bank, 19 km. South of Point Loma, San Diego, California. 249m Brought up on fishing line. March 29, 1981 M/V Margie Too. Coll. B. Mannschreck. Det. S. Cairns 4/92.  
Co 1193 Off San Diego, California. 32°46'N 117°22.7'W 183m 25' otter trawl. July 19, 1984 R/V Van Tuna. Coll. R. Wilson. Det. S. Cairns 4/92.  
Co 1265 RES 90-2. Edge of La Jolla Canyon, La Jolla, California. 33m Gill net. 3 km. offshore. February 28, 1990 Coll. Rhamaline Ghio. Det. S. Cairns 4/92.  
Co 1276 Haul 1531. 32°46.5'N 118°20.5'W 505m Black mud. July 7, 1908 0730-0840 S. Cairns 4/92.  
Co 1333 SIO63-180. East of South Point, Isla Guadalupe, Baja California Norte, Mexico. 274m Hagfish trap. April 24, 1963 R/V Horizon. Coll. A. Stover. Det. S. Cairns 4/92.  
Co 448 SIO65-113. Coronado Bank, San Diego, California. 32°40.5'N 117°27.3'W 230m Diving saucer. April 22, 1965 0958-1512. Coll. C. Hubbs.  
Co 452 No. 202. Monterey Bay, California. 36°41'N 122°0.8'W -Dredge haul. September 9, 1938 Coll. F.P. Shepard.

*Eusmilia fastigiata* (Pallas)

Co 541 Hydro Lab, Lucaya, Grand Bahamas Island. 26°30'N 78°45'W 13-27m SCUBA. 1973 Coll. A. Flechsig.

Co 1119 TEPE70-30. Agualagarna Is, Holandes Cay, San Blas Island, Panama. 9°35.9'N 78°46.9'W 0-20m SCUBA. September 27-Oct. 7, 1970 R/V Alpha Helix. Coll. W. Newman, T. Dana, S. Luke.

***Heterocyathus aequicostatus* Edwards & Haime 1848**

Co 1293 P-159-60. Islas Tres Marias, Golfo de California, Mexico. 22°30.8'N 106°4'W 46-57m 10' otter trawl. March 11, 1960 2200-0220. Coll. R. Parker.

***Labyrinthocyathus quaylei* (Durham 1947)**

Co 1176 S. branch fo Scripps Canyon, California. 60-70m SCUBA. Coll. R. Schottle. Det. S. Cairns 4/92.

***Lophelia californica* Durham & Barnard 1952**

Co 118 MB-37 ARV. South of Santa Cruz Island, California. 34°1.8'N 119°30'W 128-165m Shrimp trap Set #1. July 17, 1969 Coll. R. Green. U.S.F.W.S.

***Lophelia californica* Durham & Barnard 1952**

Co 1185 SIO65-113. Coronado Bank, San Diego, California. 32°40.5'N 117°27.3'W 230m Diving saucer. April 22, 1965 0958-1512. Coll. C. Hubbs.

***Lophelia pertusa***

Co 532 Saucer Dive #345. Due West of Bird Rock, La Jolla, California. 110-200m Diving saucer. April 17, 1965 Coll. R. Ford. Det. S. Cairns 4/92.

***Paracyathus* sp.**

Co 1274 MV65-I-29. Off Bahia Asuncion, Baja Calif. Sur, Mexico. 27°2.1'N 114°22'W 104-103m 45' otter trawl. June 21, 1965 2032-2151. R/V Horizon. Coll. C. Hubbs. Det. S. Cairns 4/92.

Co 1352 MV71-I-1. Isla de Afuera, Isla Guadalupe, Baja Calif. Norte, Mexico. 28°51.5'N 118°16.3'W 95-81m 6' Sigsbee trawl. May 18, 1971 1603-1615. R/V Agassiz. Coll. C. Hubbs, S. Luke. Det. S. Cairns 4/92.

***Paracyathus stearnsii* Verrill 1869**

Co 1164 Quast Rock, Point La Jolla, La Jolla, California. 22m SCUBA. May 1975 Coll. Tim Gerrodette. Det. S. Cairns 4/92.

Co 1165 Carmel Bay Monterey, California. September 1975 Coll. Tim Gerrodette. Det. S. Cairns 4/92.

Co 1166 Carmel Canyon, Monterey, California. 45m SCUBA. Coll. Tim Gerrodette. Det. Tim Gerrodette.

Co 1167 Santa Cruz Island, California. Coll. Tim Gerrodette. Det. S. Cairns 4/92.

Co 1169 China Point, San Clemente Island, California. 20m SCUBA. October 28, 1975 Coll. Tim Gerrodette. Det. S. Cairns 4/92.

Co 1171 Ben's Rock, Isla San Martin, Baja California Norte, Mexico. 30m SCUBA. August 14, Coll. Tim Gerrodette. Det. S. Cairns 4/92.

Co 1172 S.W. coast of Isla Cedros, Baja California Norte, Mexico. 20m SCUBA. August 17, Coll. Tim Gerrodette. Det. S. Cairns 4/92.

Co 1178 J. Bythell.

Co 1186 Quast Rock off Point La Jolla, La Jolla, California. July 1968 S. Cairns 4/92.

Co 1273 MV65-I-19. Off Bahia Asuncion, Baja Calif. Sur, Mexico. 27°1.6'N 114°16.3'W 99-108m 30' otter trawl. June 15, 1965 0510-0525. R/V Horizon. Coll. C. Hubbs. Det. S. Cairns 4/92.

Co 1295 Scripps Canyon, La Jolla, California. 30m Spring 1968 John Bythell 12/82.

Co 1307 Baja 69-11B. Off Bahia Asuncion, Baja California Sur, Mexico. 27°1'N 114°21.1'W 201m Dredge - pipe w/chain bag. February 23, 1969 1046-1156 R/V Oconostota. S. Cairns 4/92.

Co 1347 Quast Rock off Point La Jolla, La Jolla, California. July 1968 S. Cairns 4/92.

Co 1356 N. side of Middle Island, Islas Coronados, Baja California Norte, Mexico. 15m August 19,

Coll. Tim Gerrodette. Det. S. Cairns.

***Physogyra lichtenstenini***

Co 290 -314. Carmarsel Expedition. Kusaie, Caroline Islands. 13-20m SCUBA. March 1967 R/V Horizon. Coll. W. Newman.

***Polycyathus* sp.**

Co 1238 Play de La Garrofa, W. Almeria, Alboran Sea, S. Spain. 10m Lower side of big rock. Summer 1975 Coll. A. Svoboda.

**DENDROPHYLLIIDAE**

***Astroides calycularis* (Pallas 1766)**

Co 1232 Cabo de Gata, Lighthouse, Alboran Sea, S. Spain. 6m Vertical rock. Summer 1975 Coll. A. Svoboda. Det. H. Zibrowius /75.

***Balanophyllia elegans* Verrill 1864**

Co 1173 Point Loma, San Diego, California. 15m SCUBA. November 6, 1975 Coll. Tim Gerrodette. Det. S. Cairns 4/92.

Co 1297 State park, Point Buchon, California. 13m June 1968 John Bythell 12/82.

Co 1343 Quast Rock, Point La Jolla, La Jolla, California. 22m SCUBA. May 1975 Coll. Tim Gerrodette. Det. S. Cairns 4/92.

Co 1344 Carmel Bay, California. September 1975 Coll. Tim Gerrodette. Det. S. Cairns 4/92.



- Co 1345 N. side of Middle Island, Islas Coronados, Baja California Norte, Mexico. 15m SCUBA. August 19, Coll. Tim Gerrodete. Det. S. Cairns 4/92.
- Co 1346 Bens Rock, Isla San Martin, Baja California Norte, Mexico. 30m SCUBA. August 14, Coll. Tim Gerrodete. Det. S. Cairns 4/92.
- Co 1348 Quast Rock off Point La Jolla, La Jolla, California. July 1968 S. Cairns 4/92.
- Co 1655 Marine Street, La Jolla, California. 22m June 1968 John Bythel 12/82.

***Balanophyllia europaea* (Risso 1826)**

- Co 1236 200m West of Lighthouse, Cabo de Gata, Alboran Sea, S. Spain. 3m Vertical rock. Summer 1975 Coll. A. Svoboda. Det. H. Zibrowius /75.

***Balanophyllia regia* Gasse 1860**

- Co 1225 Punta Canero, South of Algreiras, near Gibraltar, S. Spain. 2-15m On rock. Summer 1975 Coll. A. Svoboda. Det. H. Zibrowius /75.

***Balanophyllia regia* Gasse 1860**

- Co 1226 Torre de Banos, W. Marbella, Alboran Sea, S. Spain. 20m On sandy bottom, on stone. August 25, 1975 Coll. A. Svoboda. Det. H. Zibrowius /75.

**cf. *Dendrophyllia* sp.**

- Co 132 U.C. Museum of Paleontology B-7564

***Dendrophyllia* sp.**

- Co 1304 U.C. Museum of Paleontology B-7477
- Co 1342 Saucer Dive #345. Due West of Bird Rock, La Jolla, California. 110-200m Diving saucer. April 17, 1965 Coll. R. Ford. Det. S. Cairns 4/92.

***Dendrophyllia californica* Durham 1947**

- Co 437 6411B-25. 9 km. W.S.W. of Punta Pequena, Baja Calif. Sur, Mexico. 26°12.8'N 112°35'W 55-51m 16' otter trawl. November 16, 1964 1505-1535. R/V Black Douglas. S. Cairns 4/92. TYPE AT CAS.

***Dendrophyllia oldroydi* Faustino 1931**

- Co 1179 Off La Jolla, California. 100-180m S. Cairns 4/92.
- Co 1317 Baja 69-15. Off Punta San Eugenia, Baja California Sur, Mexico. 27°28.3'N 114°51'W 110m Pipe dredge W/chain bag. February 24, 1969 R/V Oconostota. S. Cairns 4/92.

***Enallopsammia amphelioides***

- Co 285 Hawaiian Islands. 400m Coll. R. Grigg.

***Leptopsammia pruvoti* Lacaze-Duthiers**

- Co 1234 Calahonda, E. Motril, Aboran Sea, S. Spain. 18m Overhang. Summer 1975 Coll. A. Svoboda. Det. H. Zibrowius /75.

***Tubastraea aurea* (Quoy, Gaimard)**

- Co 284 La Paz, Baja California Sur, Mexico
- Co 1656 Off Queen Surf Hotel, Oahu, Hawaii. 2m Cave in cavernous dead reef structure. T. Dana.

***Turbinaria* sp.**

- Co 274 Carmarsel-307. West of Ulul Island, Namonuito Atoll, Caroline Islands. 5-20m SCUBA. On Heliopora. February 15, 1967 1250-1330 R/V Horizon. Coll. W. Newman.
- Co 279 Carmarsel-302. Off fantail at anchorage of ship West of Ulul Island, Namonuito Atoll, Caroline Islands. 23-8m SCUBA. February 12, 1967 1050-1117. R/V Horizon. Coll. W. Newman, J. Stewart.
- Co 280 Off Henry Island, Eniwetak Atoll, Marshall Islands. 7m Seaward reef. August 1968 Coll. T. Dana.
- Co 286 Olive Island, Eniwetak Atoll, Marshall Islands. 7m SCUBA. Offshore rubble. May 25, 1969 Coll. T. Dana.

***Turbinaria irregularis* Bernard**

- Co 1045 McKean Island. 3°36'S 174°8'W 0-26m Hand collected. SCUBA. Coral reef atoll. Summer 1968. Coll. T. Dana. Det. T. Dana, J. Maragos.

## COELENTERATA

### Incertae Sedis

- Co 348 Imperial Beach, San Diego, California. 20m Dredge. October 25, 1956.
- Co 384 ECCE PA-16c. Estero de Punta Abrejos, Baja Calif. Sur, Mexico. 26°47.5'N 113°56.6'W -Common sense seine. Mid-intertidal. Mangrove lagoon with filamentous green algae. July 26, 1975 1530-1645. Coll. S. Luke.
- Co 430 H51-27. Bahia Todos Santos, Baja Calif. Norte, Mexico. 31°45'N 116°40'W 37m Dredge. February 5, 1951 R/V Orca. Coll. C. Hubbs.
- Co 454 Eurydice Leg 7. East of Mindinao, Philippines. 9°2.6'N 127°2.8'E -Dipnet #2. On floating coconut. March 10, 1975 R/V T. Washington.
- Co 484 STYX-7 MPE68094 Sta. 1. Hamilton Guyot. 18°27.5'N 179°28.5'W 1545-1500m 25' otter trawl #7. September 4, 1968 0205-0631. R/V Agassiz. Coll. W. Newman.

- Co 584 TEPE 78-11. Off Champerico, Guatemala. 14°28.4'N 93°3.4'W 236m 4' beam trawl. Mud & shell rubble. April 6, 1978 0420-0510. R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 595 TEPE 78-15. Isla Sacrificios, Oaxaca, Mexico. 15°40.8'N 96°14.6'W 13m SCUBA. April 7, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 601 TEPE 78-18. Isla Grande (Ixtapa), Guerrero, Mexico. 17°40.3'N 101°40.4'W -SCUBA. Rocky. April 10, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 602 TEPE 78-18. Isla Grande (Ixtapa), Guerrero, Mexico. 17°40.3'N 101°40.4'W -SCUBA. Rocky. April 10, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 603 TEPE 78-18. Isla Grande (Ixtapa), Guerrero, Mexico. 17°40.3'N 101°40.4'W -SCUBA. Rocky. April 10, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 604 TEPE 78-18. Isla Grande (Ixtapa), Guerrero, Mexico. 17°40.3'N 101°40.4'W -SCUBA. Rocky. April 10, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 605 TEPE 78-18. Isla Grande (Ixtapa), Guerrero, Mexico. 17°40.3'N 101°40.4'W -SCUBA. Rocky. April 10, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 606 TEPE 78-18. Isla Grande (Ixtapa), Guerrero, Mexico. 17°40.3'N 101°40.4'W -SCUBA. Rocky. April 10, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 607 TEPE 78-18. Isla Grande (Ixtapa), Guerrero, Mexico. 17°40.3'N 101°40.4'W -SCUBA. Rocky. April 10, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 608 TEPE 78-18. Isla Grande (Ixtapa), Guerrero, Mexico. 17°40.3'N 101°40.4'W -SCUBA. Rocky. April 10, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 609 TEPE 78-18. Isla Grande (Ixtapa), Guerrero, Mexico. 17°40.3'N 101°40.4'W -SCUBA. Rocky. April 10, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 610 TEPE 78-18. Isla Grande (Ixtapa), Guerrero, Mexico. 17°40.3'N 101°40.4'W -SCUBA. Rocky. April 10, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 613 TEPE 78-23. Bahia Chamela, Jalisco. 19°35'N 105°8.5'W 5-6m SCUBA. April 12, 1978 R/V Alpha Helix. Coll. W. Newman, S. Luke.
- Co 646 MV65-I-39. Basin off Bahia Magdalena, Baja Calif. Sur, Mexico. 24°25'N 113°18'W 3427-3621m 45' otter trawl. June 25, 1965 0009-0746. R/V Horizon. Coll. C. Hubbs.
- Co 665 NAGA 60 1068. Gulf of Thailand. 11°30'N 99°47.15'E 22m 16' otter trawl. December 12, 1960.
- Co 699 NAGA 60 0136. Gulf of Thailand. 8°25.5'N 100°45.7'E -Dip net. Surface. January 26, 1960 0800.
- Co 723 NAGA 60 0212. South China Sea. 15°40'N 109°02'E 110-198m 10' beam trawl. February 27, 1960 1836.
- Co 833 NAGA 61 0192. Sundra Str. (Krakatoa), Java Sea. 6°11.2'N 105°29.3'E 91m Chain dredge. March 23, 1961.
- Co 866 NAGA 61 0245. Timor Sea. 10°56.3'S 129°36.25'E 28m Shell dredge. April 19, 1961.
- Co 883 NAGA 60 0264. South China Sea. 10°31.5'N 109°25'E 183m 10' beam trawl. March 9, 1960.
- Co 947 Vermillion Sea VSS-B-II-35. N.W. of Tres Marias Island, Mexico. 22°20'N 107°48'W 2999-2996m 40' otter trawl. Manganese. May 15, 1959 0015-0635. Coll. R. Parker, Rowland, & Keith.
- Co 1198 Panama Basin, Panama. 5°9.8'N 81°41.2'W 3900-4000m 40' otter trawl. October 8, 1981 R/V Melville. Coll. K. Smith.
- Co 1207 D-7. Guaymas Basin, Golfo de California, Mexico. 27°3'N 111°22'W 1957m Rock Dredge D-7. August 9, 1980.
- Co 1215 Indomed 8 Dredge 10D. S.W. Indian Ridge. 38°28'S 46°46'E 170-225m Rock dredge 10D. May 17, 1978 R/V Melville.
- Co 126 PLUM 02 WT D-14. Galapagos Island, Ecuador. 0°6'N 89°7.1'W 1639-1090m Rock dredge D-14. January 27, 1990.
- Co 1262 PLUM 02 WT D-08. Galapagos Island, Ecuador. 1°7.01'N 88°15.77'W 1000-917m Rock dredge D-08. January 23, 1990.
- Co 1358 MV71-I-62. San Diego Trough, California. 32°28'N 117°29'W 1235m 25' otter trawl. June 1, 1971 R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1359 SIO70-141. Golfo de Chiriqui, Panama. 7°N 82°W 37m Panamanian commercial shrimp trawler. March 31, 1970 Coll. R. Rosenblatt.
- Co 136 Afterthot II A-11. San Clemente Basin, California. 32°29'N 118°6.2'W 1829m 25' otter trawl. Mud. May 5, 1975 1938-1955. R/V Agassiz. Coll. J.F. Siebenaller.
- Co 1361 Cactus & LaCrosse A-bomb craters, Runit Is (Yvonne Is.), Eniwetak Atoll. 11°30'N 162°10'E 0-30m SCUBA. In craters & on reef flat. September 1971 to May 72. Coll. R. Nolan, T. Dana, T. Scanland.
- Co 1362 MV73-I-65. S.W. of Punta Ampala, El Salvador. 13°5.5'N 87°59'W 24-29m 40' otter trawl. April 17, 1973 0906-0940. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1363 MV73-I-47. South of Champerico, Guatemala. 13°52'N 92°2'W 113-106m 40' otter trawl. April 13, 1973 1543-1645. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1364 MV73-I-41. Golfo de Tehuantepec, Chiapas, Mexico. 14°52'N 93°9'W 91-101m 25' otter trawl. April 11, 1973 1415-1505. R/V Agassiz. Coll. C. Hubbs, S. Luke.

- Co 1365 M-6 Sta. 2. La Jolla Canyon. 32°52'N 117°32'W 732-860m 25' otter trawl. August 13, 1971 0120-0430. R/V Agassiz. Coll. T. Matsui.
- Co 1366 Off Coronado Bank. 67m On shark eggs on crinoids on black coral. 1967 Deepstar. Coll. R. Church.
- Co 1367 ANTI-I-7D. 35°20'N 121°38'W 1258-1036m Dredge. June 18, 1970 R/V Melville. Coll. Liebertz.
- Co 1368 MV73-I-2. N.E. of Isla Maria Madre, Islas Tres Marias, Mexico. 22°0'N 106°16'W 82-88m 25' otter trawl. Sand. March 30, 1973 1522-1604. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1369 M-6 Sta. 1. San Diego Trough. 32°23'N 117°28'W 1244m 25' otter trawl. August 11, 1971 2400-0412. R/V Agassiz. Coll. T. Matsui.
- Co 137 M-7 Sta. 1. San Diego Trough. 32°28'N 117°30'W 1225-1244m 40' otter trawl. September 14, 1971 1228-1538. R/V Agassiz. Coll. T. Matsui.
- Co 1371 MV73-I-37. N.E. shore of Golfo de Tehuantepec, Oaxaca, Mexico. 15°25'N 93°34'W 46-48m 40' otter trawl. April 10, 1973 0406-0458. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1372 Palmer Peninsula, Wylie Bay (next to Anvers Island) Antarctica. 183m Bottom Blake Trawl. January 1969.
- Co 1373 MV70-III-6. West of Patton Escarpment. 31°20'N 120°9'W 3706-3806m 25' otter trawl. March 23, 1970 R/V Melville. Coll. F. Rokop, S. Luke.
- Co 1375 MV73-I-22. E.S.E. of Punta Telmo near Punta Lizardo, Michoacan, Mexico. 18°7'N 102°57'W 22-24m 40' otter trawl. Sand. April 4, 1973 1536-1602. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1376 MV73-I-96. S.S.W. of Punta Judas, Costa Rica. 9°27.5'N 84°31'W 31m 25' otter trawl. April 22, 1973 1938-2011. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1377 MV73-I-81. South of Pta. Guiones, Costa Rica. 9°34'N 85°41'W 1157-1454m 10' IKMT on bottom. April 20, 1973 1350-1755. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1378 Afterthot II A-17. West Cortez Basin, California. 32°25'N 119°30'W 1362m 25' otter trawl. May 7, 1975 0505-0528. R/V Agassiz. Coll. J.F. Siebenaller.
- Co 1379 MV73-I-94. Middle of mouth of Gofu de Nicoya, Costa Rica. 9°36'N 84°51'W 86m 25' otter trawl. April 22, 1973 R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 138 MV73-I-39. West of Puerto Madero, Chiapas, Mexico. 14°43'N 92°55.5'W 55m 40' otter trawl. April 10, 1973 1846-1937. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1381 Palomar Reef, La Jolla, California. Intertidal sandstone rocks. January 8, 1974 Coll. S. Luke.
- Co 1382 MV66-II-4. Off Eureka, California. 40°30.5'N 125°45.2'W 2999-3017m 16' otter trawl. May 22, 1966 Coll. R. Wisner.
- Co 1383 R-41. Tanner Basin, California. 32°48'N 119°29'W 1390m 25' otter trawl. July 13, 1971 1040-1243. R/V Agassiz. Coll. F. Rokop.
- Co 1385 CalCofi 74126/II OT-5. Piedras Blancas, California. 35°38'N 121°44.5'W 915m 16' otter trawl #5. December 10, 1974 0650-0933. R/V Agassiz. Coll. T. Matsui.
- Co 1386 MB-6904-5 TR #150. 3 km. North of Punta Willard, Isla Tiburon, Golfo de California, Mexico. 28°57.7'N 112°34.3'W 100-82m 17' otter trawl. April 25, 1969 Coll. Moser.
- Co 1387 Crystal Pier, Pacific Beach, California. Intertidal off pilings. February 6, 1974 Coll. S. Luke.
- Co 1388 MV70-III-3. West of Patton Escarpment. 31°27'N 120°12'W 3880m 25' otter trawl. March 21, 1970 R/V Melville. Coll. F. Rokop, S. Luke.
- Co 1389 M-8 Sta. 1. San Diego Trough. 32°27'N 117°32'W 1207-1244m 40' otter trawl. Mud. November 1, 1971 R/V Agassiz. Coll. T. Matsui.
- Co 139 M-15 OT-13. Point Piedras Blancas, California. 35°35'N 121°28'W 567-603m 25' otter trawl. April 1, 1974 1838-2040. R/V Agassiz. Coll. T. Matsui.
- Co 1391 TEPE70-30. Agualagarna Is, Holandes Cay, San Blas Island, Panama. 9°35.9'N 78°46.9'W 0-20m SCUBA. September 27-Oct. 7, 1970 R/V Alpha Helix. Coll. W. Newman, T. Dana, S. Luke.
- Co 1392 CalCofi 74126/II OT-2. San Francisco, California. 37°8'N 122°23'W 37m 16' otter trawl #2. December 9, 1974 1515-1620. R/V Agassiz. Coll. T. Matsui.
- Co 1393 Oconostota trawl #5. San Clemente Basin, California. 33°5'N 118°18'W 1112-1115m 16' otter trawl. September 4, 1974 0915-1140. R/V Oconostota. Coll. J.F. Siebenaller.
- Co 1394 SIO 63-501 B-3. Golfo de Tehuantepec. 27m July 8, 1963 2000-2030.
- Co 1395 Monsoon Exped. (P-239-60). N.E. of Timor. 8°31'S 128°22.7'W 1618-1666m Rock dredge. Top of guyot. October 24, 1960 0100-0200. Coll. R. Parker & Rowland.
- Co 1396 M-15 OT-15. Morro Bay, California. 35°12'N 121°2'W 99m 25' otter trawl. April 2, 1974 0250-0419. R/V Agassiz. Coll. T. Matsui.
- Co 1397 MV65-I-4. N.W. of N. tip of Isla Cedros, Baja Calif. Norte, Mexico. 28°49'N 115°44'W 1536-1511m 6' Sigsbee trawl. June 10, 1965 2016-2201. R/V Horizon. Coll. C. Hubbs.

- Co 1398 MV65-I-26. Off Bahia San Cristobal, Baja Calif. Sur, Mexico. 27°8'N 115°9'W 4085-4096m 10' IKMT on bottom. June 21, 1965 0501-0706. R/V Horizon. Coll. C. Hubbs.
- Co 1399 Sta. 16. Santa Catalina Basin, California. 32°20'N 118°17'W 1097m IKMT on bottom. December 10, 1972 1800-2300. R/V Agassiz. Coll. R. Hessler.
- Co 1400 North of San Felipe, Baja California, Mexico. 31°2'N 114°50'W -. intertidal
- Co 1401 Afterthot II A-27. Encinitas, California. 33°0'N 117°34.4'W 7508m 25' otter trawl. May 9, 1975 0955-1017. R/V Agassiz. Coll. J.F. Siebenaller.
- Co 1402 R-24. Tanner Basin. 32°44'N 119°27'W 1317-1362m 25' otter trawl. Mud. January 20, 1971 1658-2017. R/V Agassiz. Coll. F. Rokop.
- Co 1403 MV66-I-6. Off Cabo Colnett, Baja Calif. Norte, Mexico. 31°4'N 118°W 1463-1728m 40' otter trawl. March 31, 1966 R/V Agassiz. Coll. C. Hubbs.
- Co 1404 M-8 Sta. 5. San Clemente Basin, California. 32°33'N 118°6'W 1829m 40' otter trawl. Mud. November 3, 1971 0115-0645. R/V Agassiz. Coll. T. Matsui.
- Co 1405 MV73-I-46. South of Champerico, Guatemala. 13°54'N 92°2.5'W 91-104m 40' otter trawl. April 13, 1973 1317-1402. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1406 MV70-III-8. West of Patton Escarpment. 31°35'N 120°18.4'W 3916-3950m 25' otter trawl. March 23, 1970 R/V Melville. Coll. F. Rokop, S. Luke.
- Co 1407 Baja 69-10. Baja California Sur, Mexico. 311m Dredge-Pipe w/ Chain Bag. February 22, 1969 R/V Oconostota.
- Co 1408 MV71-I-43. Outer 1,000 Fathom Basin, Baja Calif. Norte, Mexico. 31°25'N 117°45'W 2001-2025m 6' Sigsbee trawl. May 29-30, 1971 2140-0204. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1409 Oconostota trawl #7. Tanner Basin, California. 32°43'N 119°31.3'W 1200-1300m 16' otter trawl. September 5, 1974 0110-0405. R/V Oconostota. Coll. J.F. Siebenaller.
- Co 141 M-15 OT-14. San Simeon, California. 35°34'N 121°18'W 256m 25' otter trawl. April 1, 1974 2335-0100. R/V Agassiz. Coll. T. Matsui.
- Co 1411 Baja 69-11B. Off Bahia Asuncion, Baja California Sur, Mexico. 27°1'N 114°21.1'W 201m Dredge - pipe w/chain bag. February 23, 1969 1046-1156 R/V Oconostota.
- Co 1412 Monsoon Sta. VI-7 76-D. East of New Zealand. 43°38'S 177°26'E 161m Rock dredge 76-D. January 31, 1961 1724-1845. Coll. Russell & Menard.
- Co 1413 MV73-I-1. End of municipal pier, La Paz, Baja Calif. Norte, Mexico. 24°11.5'N 110°18.1'W -Break off clumps of sponges. Intertidal on pier pilings. March 29, 1973 1300. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1415 M-6 Sta. 3. San Clemente Basin, California. 32°35'N 118°14'W 1628-1838m 25' otter trawl. August 12, 1971 0510-1110. R/V Agassiz. Coll. T. Matsui.
- Co 1416 M-15 OT-22. Off Del Mar, California. 32°59'N 117°38'W 920m 25' otter trawl. April 4, 1974 1524-1745. R/V Agassiz. Coll. T. Matsui.
- Co 1417 M-15 OT-11. Point Piedras Blancas, California. 35°28'N 121°48'W 1189-1170m 25' otter trawl. March 31, 1974 1030-1418. R/V Agassiz. Coll. T. Matsui.
- Co 1419 R-9. Tanner Basin. 32°50'N 119°32.5'W 1397m 25' otter trawl. Mud. October 28, 1970 1800-2100. R/V Agassiz. Coll. F. Rokop, S. Luke.
- Co 1422 MV66-III-21. W.S.W. of Cortez Bank, Baja Calif. Norte, Mexico. 32°4'N 120°28.7'W 3777-3742m 40' otter trawl. December 11, 1966 Coll. C. Hubbs.
- Co 1423 MV67-II-22. S.W. of Farallon Island, & West of Pioneer Seamount, California. 37°18'N 123°53.3'W 3592-3799m 41' otter trawl. June 14-15, 1965 1858-0220. R/V T. Washington. Coll. C. Hubbs.
- Co 1424 Monsoon Exped. Sta. VI-5 74-D. East of New Zealand. 43°21'S 179°30'E 425m Rock dredge 74-D. January 30, 1961 1105-1225. Coll. Russeull.
- Co 1427 MV65-I-13. Cedros Trench, West of Isla Cedros, Baja Calif. Norte, Mexico. 28°6'N 116°40'W 4414-4425m 6' Sigsbee trawl. June 13, 1965 0202-1103. R/V Horizon. Coll. C. Hubbs.
- Co 143 M-15 OT-16. Pismo Beach, California. 35°6'N 120°46.6'W 70m 25' otter trawl. April 2, 1974 0700-0735. R/V Agassiz. Coll. T. Matsui.
- Co 1431 M-15 OT-10. Santa Monica, California. 33°52.5'N 118°34'W 73m 25' otter trawl. March 29, 1974 2134-2208. R/V Agassiz. Coll. T. Matsui.
- Co 1432 M-7 Sta. 3. San Clemente Basin. 32°28'N 118°8'W 1792-1866m 40' otter trawl. September 16, 1971 0236-0730. R/V Agassiz. Coll. T. Matsui.
- Co 1434 MV68-I-49. Guaymas Basin, Golfo de California, Mexico. 27°17'N 111°26'W 1792-1875m 41' otter trawl. January 15, 1968 2153-0408. R/V T. Washington. Coll. C. Hubbs.
- Co 1435 MV73-I-38. N.E. shore of Golfo de Tehuantepec, Oaxaca, Mexico. 15°30.7'N 93°22.8'W 22m 40' otter trawl. April 10, 1973 0817-0842. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1436 Operation Blind Spot. Off Pta. Lobos, Sonora, Mexico. 27°15'N 111°27'W 1829-1875m 25' otter trawl. June 14, 1970 R/V Agassiz. Coll. E. Kampa.

- Co 1437 M-15 OT-12. Point Piedras Blancas, California. 35°32'N 121°40'W 906m 25' otter trawl. April 1, 1974 0240-0510. R/V Agassiz. Coll. T. Matsui.
- Co 1438 MV65-I-50. S.W. of Cabo San Lucas, Baja Calif. Sur, Mexico. 22°41.8'N 110°15'W 1893-1957m 6' Sigsbee trawl. June 28, 1965 0730-1109. R/V Horizon. Coll. C. Hubbs.
- Co 1439 Afterthot II A-26. Encinitas, California. 33°2.6'N 117°24.5'W 439m 25' otter trawl. May 9, 1975 0656-0710. R/V Agassiz. Coll. J.F. Siebenaller.
- Co 144 Monsoon Exped. Sta. VI-6 75-D. East of New Zealand. 43°28'S 178°E 161m Rock dredge. January 31, 1961 Coll. Russell & Menard.
- Co 1441 M-1 Sta. 2. San Diego Trough. 32°57'N 117°32'W 768m 25' otter trawl. Mud. February 3, 1971 R/V Agassiz. Coll. T. Matsui.
- Co 1443 Monsoon Exped. 72-D. Off New Zealand. 43°26'S 176°43'E 245m Rock dredge. January 1200.
- Co 1445 Operation Blind Spot. Off Pta. Chivato, Baja Calif. Sur, Mexico. 27°17'N 111°25'W 1829-1875m 25' otter trawl. June 15, 1970 R/V Agassiz. Coll. E. Kampa.
- Co 1446 Oconostota trawl #10. La Jolla, California. 32°52'N 117°36.5'W 896m 16' otter trawl. September 6, 1974 0040-0220. R/V Oconostota. Coll. J.F. Siebenaller.
- Co 1447 Off Central America. 12°34'N 93°20'W - Surface. On loose Japanese long line buoy with *Planes minutus*. April 26, 1972 Lois Seaver I. Coll. C.W. Oliver.
- Co 1449 MV71-I-32. Between Islas San Benitos & Cedros, Baja Calif. Norte, Mexico. 28°18'N 115°23.5'W 265-247m 6' Sigsbee trawl. Smooth green mud. May 27, 1971 1300-1320. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1451 MV65-III-14. Basin N.W. of 60 mi. Bank, Baja Calif. Sur, Mexico. 32°10'N 118°33'W 1615-1664m 10' IKMT on bottom. December 24, 1965 0850-1210. R/V Agassiz. Coll. C. Hubbs, W. Newman.
- Co 1452 MV71-I-36. South of Isla San Martin, Baja Calif. Norte, Mexico. 30°22.2'N 116°7.6'W 201-196m Electric reel fishing/6 hooks. May 28, 1971 1633-1653. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1453 Oconostota trawl #4. Santa Catalina Basin, California. 32°58'N 118°25.5'W 1099-1104m 16' otter trawl. Mud. September 4, 1974 0232-0510. R/V Oconostota. Coll. J.F. Siebenaller.
- Co 1454 TEPE70-35. S.E. end of Niaklubir Island, Holandes Cay, San Blas Island, Panama. 9°35.1'N 78°44.4'W 1m Snorkel. October 7, 1970 1330-1400. R/V Alpha Helix. Coll. W. Newman, T. Dana, S. Luke.
- Co 1455 MV65-IV-77. Off Chile. 32°48'S 72°2'W 500m 10' IKMT. (2000 M.W.D). December 19, 1965.
- Co 1456 MV65-I-41. Basin off Bahia Magdalena, Baja Calif. Sur, Mexico. 24°27'N 113°20'W 3497-3610m 10' IKMT on bottom. June 25, 1965 1655-2365. R/V Horizon. Coll. C. Hubbs.
- Co 1457 DFH68-7 & 12. Las Pintas Cove, Punta San Antonio, 2 km. North of Bahia San Carlos, Sonora, Mex. 28°N 111°W 0-10m Plankton net on bottom. Sargassum. January 20, 1968 0815-0830. Coll. D.F. Hoese.
- Co 1458 ARIES VII 54D. Milwaukee Seamount Group. 32°17.4'N 172°47.7'E 732-375m Dredge. August 20, 1971 1200. R/V T. Washington. Coll. R.V. Mead.
- Co 1459 6108B-71. Off Nayarit, Mexico. 22°3.3'N 105°43.4'W 22-23m 16' otter trawl #20. August 24, 1961 2155-2210. Coll. H. DeWitt & Perkins.
- Co 146 Japanyon JYN-III-50. Off Yokohama, Japan. 34°53.5'N 139°45.25'E 460m Dredge. July 17, 1961 1221-1324. R/V Spencer F Baird. Coll. Shepard.
- Co 1461 MV66-III-7. West of Bahia Descanso, Baja Calif. Norte, Mexico. 32°4'N 117°13'W 1332-1244m 40' otter trawl. December 8, 1966 1415-1720. Coll. C. Hubbs.
- Co 1462 SIO70-22. West of Patton Escarpment. 31°12'N 119°37'W 3600-3676m 25' otter trawl. Mud. December 18, 1969 R/V Melville. Coll. C. Hubbs, S. Luke.
- Co 1463 SIO63-17. San Diego Trough. 32°24'N 117°30'W 732-1280m 10' IKMT. February 8, 1963 Coll. R. Wisner.
- Co 1464 R-35. Tanner Basin. 32°48'N 119°32'W 1390-1372m 25' otter trawl. Mud. April 19-20, 1971 2300-0300. R/V Agassiz. Coll. F. Rokop.
- Co 1476 RR65-39. N.W. of Isla Monserrate, Baja Calif. Sur, Mexico. 25°43'N 111°5.5'W 170-192m 40' otter trawl. July 11, 1965 2130-2306. R/V Horizon. Coll. R. Rosenblatt.
- Co 1481 Monsoon Exped. Sta. VII-5 107-D. S.E. of New Zealand. 47°35'S 178°58'E 146m Rock dredge 107-D. February 28, 1961 1213-1253. Coll. Russell.
- Co 1482 Due West of Pt. La Jolla, San Diego, California. 220-274m 16' otter trawl. January 28, 1965 ST-908. Coll. Fager.
- Co 1492 MV73-I-9. N.E. of Isla Maria Madre, Islas Tres Marias, Mexico. 21°56.4'N 106°10.6'W 51m 40' otter trawl. Sand. March 31, 1973 2022-2102. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1493 TEPE70-7. Off Punta David, Isla Jicaron, Panama. 7°15.7'N 81°45.3'W 64m Rock dredge. 200 ft. terrace. September 16, 1970 2000. R/V Alpha Helix. Coll. W. Newman, T. Dana, S. Luke.
- Co 1502 NAGA 60 0208. South China Sea. 12°14.7'N 109°18.4'E 28m 10' beam trawl. February 25, 1960.

- Co 1503 H52-43. Santa Barbara Channel, S.W. of Santa Barbara, California. 5' Scoop Dredge. April 3, 1952 M/V Horizon. Coll. C. Hubbs.
- Co 1511 Off Coronado Bank. 67m On Crinoids and Black Coral. 1967 Deepstar. Coll. R. Church.
- Co 1512 Gulf of California, 13 mi. south of San Felipe, Baja California, Mexico. 31°N 114°49'W -. Tidepools. March 1968.
- Co 1517 GLOR 04 MV. 15°33'S 131°16'W 2250-1870m Dredge 12. January 25, 1993.
- Co 1523 R-37. San Diego Trough, California. 32°26'N 117°26'W 1194-1097m 25' otter trawl. Mud. April 21, 1971 2300-0350 R/V Agassiz. Coll. F. Rokop.
- Co 1534 MV73-I-63. S.W. of San Jose, Guatemala. 13°22.6'N 91°19.3'W 159-146m 40' otter trawl. April 16, 1973 0843-0940. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 154 Miami, Florida. 0-10m September 1967.
- Co 1541 MV68-I-9. East of Punta Gorda, Baja Calif. Sur, Mexico. 23°4'N 109°28.5'W 97-187m 41' otter trawl. January 10, 1968 1234-1401. R/V T. Washington. Coll. C. Hubbs.
- Co 1555 MV71-I-44. Outer 1,000 Fathom Basin, off Rio San Vicente, Baja Calif. Norte, Mexico. 31°18'N 117°25'W 1984-1957m 6' Sigsbee trawl. May 30, 1971 0825-1250. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1558 MV65-I-51. S.W. of Cabo San Lucas, Baja Calif. Sur, Mexico. 22°46'N 110°23'W 1917-2014m 30' otter trawl. June 28, 1965 R/V Horizon. Coll. C. Hubbs.
- Co 1561 6111B-4. 9km. W.S.W. of Red Rock at S.W. tip of Isla Cedros, Baja Calif. Norte, Mexico. 28°7'N 115°29'W 113-119m 16' otter trawl #31. November 25, 1961 2127-2211. Coll. F.H. Berry.
- Co 1566 Japanyon (JYN)-III-51. Off Yokohama, Japan. 34°54.5'N 139°43.4'E 512m Dredge. July 16, 1961 R/V S.F. Baird. Coll. Shepard.
- Co 1567 MV68-I-50. S. part of Isla San Pedro, S.W. of Guaymas, Golfo de California, Mexico. 27°39'N 111°21'W 931-952m 40' otter trawl. January 16, 1968 0908- R/V T. Washington. Coll. C. Hubbs.
- Co 157 Cruise PAS Sta. 130.90. Dredge. Over Seamount. May 6, 1954.
- Co 1574 Mag Bay A-20. N. West of Bahia Magdalena, Baja Calif. Sur, Mexico. 24°54'N 113°8'W 1229-1147m 6' beam trawl. January 31, 1964 R/V Horizon. Coll. C. Hubbs.
- Co 1575 NAGA S 61-254. Timor Sea. 97m Shell Dredge. Hardrock?. April 20, 1961 1039-1045.
- Co 1577 Monsoon Exped. (P-149-60). Off Mauritius. 19°50'S 57°39'E 49m Shell dredge. December 7, 1960 0708-0732. Coll. R. Parker & Rowland.
- Co 1578 Sea Lab SL 49 d. 80m Assembly of gorg. & solitary corals. October 2, 1965 1200 Coll. R. Grigg.
- Co 1585 MV73-I-95. East of Punta Judas, Costa Rica. 9°28'N 84°23'W 26-24m 25' otter trawl. April 22, 1973 1807-1838. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1586 MV71-I-28. Isla San Benito del Oeste, Baja Calif. Norte, Mexico. 28°18'N 115°33'W - Hand collections. Intertidal. May 26, 1971 R/V Agassiz. Coll. C. Hubbs, S. Luke.
- Co 1587 TEPE70-13. Islas Ladroneas, Panama. 7°52.23'N 82°27.75'W -Scuba, chemfish, snorkel. In cave. September 19, 1970 1200-1400. R/V Alpha Helix. Coll. W. Newman, T. Dana, S. Luke.
- Co 1588 Sta. 8. La Jolla Canyon, Off La Jolla, California. 114-40m Rock dredge. Rock, sand, clay. January 7, 1954.
- Co 1589 566-36. Tiberon Island, Gulf of California. 28°44'N 112°18'W 7m.
- Co 159 Baja 69-28. Baja California Norte, Mexico. 29°11'N 115°14'W 91m Dredge-pipe w/ chain bag. February 28, 1969 R/V Oconostota.
- Co 1592 LUSIAD Exp. S-31 Sta.# 97. 2345-1902m Chain rock dredge. June 20 2000-2310 Coll. V. Vacquier & party.
- Co 1594 SL 49 C. 90m Canyon wall. October 2, 1965 1200 Coll. R. Grigg.
- Co 1595 RR 61-50. Espiritu Santo Island, Baja Calif., Golfo Calif. June 24, 1961 Coll. R. Rosenblatt.
- Co 1596 Coast Station Palos Verdes, off Marineland. 10-15m Large boulders w/ sand in between. January 7, 1967 Coll. R. Grigg.
- Co 1597 Jasper Semt. Pacific. 31°28'N 122°45'W 732m.
- Co 1601 Baja 69-17. Baja California Sur, Mexico. 27°43'N 115°7'W 86m Dredge pipe w/chain bag. February 24, 1969 R/V Oconostota.
- Co 1602 Off Coronado Bank. 67m On black corals. Deepstar. Coll. R. Church.
- Co 1603 MV65-I-67. Canal de Cerralbo, on W. side off Punta Gorda,, Baja Calif. Sur, Mexico. 24°11'N 109°59'W 81-84m 45' otter trawl. July 2. 1965 1637-1745. R/V Horizon. Coll. C. Hubbs.
- Co 1605 SL 49-b. 80m Red gorg., Canyon rim. October 2, 1965 1200 Coll. R. Grigg.
- Co 1606 Red 67. Basilian Strait, Philippines. August-September 1961.
- Co 1607 Mag Bay C-11. North of Boca de Soledad, North of Isla Santa Magdalena, Baja Calif. Sur, Mexico. 25°18'N 112°11'W 22-24m Otter trawl. February 1, 1964 Coll. B.J. Zahuranec.
- Co 1608 SIO 61-225. Cabo San Lucas, Baja California, Mexico. June 12, 1961 Coll. R. Rosenblatt.
- Co 1609 Holt Exped. Sta. 6. Baja California Sur, Mexico. 91m 10' Otter trawl. December 2, 1960 Coll. Boyd, Casey, Dockins.
- Co 1612 Downwind Exped. #5 haul 8. 19°40'S 80°22'W -Dredge

- Co 1615 Monsoon Exped. Sta. VI-2 71-D. East of New Zealand. 43°10'S 175°15'E 119m Rock dredge 71-D. January 29, 1961 0500-0630. Coll. Russell.
- Co 1618 Cabo San Lucas, Baja Calif. Sur, Mexico. 22°50'N 109°50'W 0-53m August 20, 1957 Coll. W. North.
- Co 1619 SIO 61-253. Muertos Bay, Baja California Sur, Mexico. Chemfish. June 20, 1961 Coll. R. Rosenblatt & party.
- Co 1622 Red 76. Basilian Strait, Philippines. August-September 1961.
- Co 1623 Cage CA-7. Hydroid colony top of cage. ano/ass fauna
- Co 1626 TEPE70-3. Bay of Panama. 7°19.2'N 81°45.4'W 22-31m Rock dredge. September 15, 1970 1942-1957. R/V Alpha Helix. Coll. W. Newman, T. Dana, S. Luke.
- Co 1628 M-15 OT-8. N. of Dana Point, California. 33°32.5'N 117°48.6'W 53-48m 25' otter trawl. March 29, 1974 1215-1239. R/V Agassiz. Coll. T. Matsui.
- Co 1631 RR65-89. N.E. of Isla Santa Cruz, Baja Calif. Sur, Mexico. 25°18.3'N 110°41.7'W 30-35m Chemfish & SCUBA. July 22, 1965 Coll. R. Rosenblatt.
- Co 1635 North of SIO, La Jolla, California. From Mytilus shells. Tidepools. April 7, 1969 Coll. R. Kiwala.
- Co 1638 La Paz, Golfo de California, Mexico. December 15, 1959 Coll. Lemeche.
- Co 1639 Punta Penasca, Sonora, Mexico. April 22, 1951 Coll. Fred Wylie.
- Co 1642 SIO Canyon, off SIO, La Jolla, California. 27m SCUBA. April 7, 1969 Coll. R. Kiwala.
- Co 1645 La Paz. Baja. 1959 1512-1959 Coll. Lemeche.
- Co 1658 MB-37 AVR Set #2. South of Santa Cruz Island, California. 33°58'N 119°29'W 166m Shrimp trap. July 19, 1969 Coll. R. Green.
- Co 1663 SIO 62-218. Bahia de Los Angeles, Mexico
- Co 1664 MV65-I-19. Off Bahia Asuncion, Baja Calif. Sur, Mexico. 27°1.6'N 114°16.3'W 99-108m 30' otter trawl. June 15, 1965 0510-0525. R/V Horizon. Coll. C. Hubbs.
- Co 1667 Hol Exped. Sta. 7. Off Bahia San Juanico, Baja California Sur, Mexico. 26°5'N 113°35'W 229-293m 10' otter trawl. December 2, 1960 Coll. C. Boyd.
- Co 1675 6111B-25. Bahia Magdalena, Baja Calif. Sur, Mexico. 24°38.6'N 112°1.7'W 27-23m 16' otter trawl #34. November 29, 1961 0317-0355. Coll. F.H. Berry.
- Co 1677 SIO 64-885. 10 km. W.S.W. of Boca Animas, Baja California Sur, Mexico. 25°38'N 112°13'W 37-38m 16' Otter trawl. November 16, 1964 R/V Black Douglas.
- Co 168 H48-229. East of Sugar Loaf Rock, Bahia Descanso, Baja Calif. Norte, Mexico. 32°20'N 117°5'W 20-26m Pipe stem dredge. August 13, 1948 "E.W. Scripps". Coll. C. Hubbs.
- Co 1681 Mag Bay C-4. 1.5 km. S.W. of Devil Bend, Bahia Magdalena, Baja California Sur, Mexico. 24°57.5'N 112°11.4'W 6m 16' otter trawl. January 30, 1964 R/V Horizon. Coll. A. Stover.
- Co 1682 El Golfo II BT-150. N. Bahia Banderas, Nayarit, Mexico. 20°44'N 105°24.6'W 29m 20' otter trawl. June 2, 1965 1100-1130. Coll. Jerde & Matsui.
- Co 1684 Loma Sea Valley, due West of Pt. Loma, San Diego, California. 326-351m otter trawl #1. January 21, 1965 ST-908. Coll. Fager.
- Co 1687 MV65-IV-85. ca. 30 km. off Valpariso Harbor, Chile. 275m Bought from shrimp trawler. December 22 & 23, 1965 Coll. A. Chapman.
- Co 1689 #D8 RTE 702. May 29, 1987 M/V Melville.
- Co 169 Colnett- Nov. 1964. Colnett, Baja California Norte, Mexico. 101m Midwater trawl #20. On bottom. November 24, 1964 1344-1406 Coll. Dan Brown, C.W. Jerde.
- Co 1691 SIO 64-870. Baja California Sur, Mexico. 23°46'N 110°46'W 64m Otter trawl. November 10, 1964.
- Co 1704 STYX-7 MPE68095 Sta. 1. Hamilton Guyot. 18°29'N 179°17'W 1790m IKMT #4. September 5, 1968 0045-0720. R/V Agassiz. Coll. W. Newman.
- Co 1706 Holt Exped. Sta. 13. West of Punta Cabras, Baja Calif. Norte, Mexico. 31°20'N 116°39.2'W 82m 10' otter trawl. December 4, 1960 Coll. C. Boyd.
- Co 1707 B6212-4. Punta Marquis, Baja California Sur, Mexico. Chemfish. December 4, 1962.
- Co 1717 NAGA 61 0229. Timor Sea. 11°15.2'S 126°54.9'E 70m Shell dredge. April 14, 1961.
- Co 1718 Baja 69-28. South of Punta Canoas, Baja California Norte, Mexico. 29°11'N 115°14'W 100m Dredge. February 28, 1969 R/V Oocnostota.
- Co 1719 NAGA 60 0274. South China Sea. 10°16'N 107°56.5'E 33m 6' beam trawl. March 10, 1960.
- Co 172 NAGA 60 0845. Gulf of Thailand. 12°54.5'N 100°26.5'E 20m 6' beam trawl. November 9, 1960.
- Co 1732 RR61-25. Punta Pulmo,. Chemfish. July 18, 1965 0900.
- Co 1735 26km East South East of Aransas Pass, Corpus Christi, Texas
- Co 1739 ROSA-01 DREDGE 2. 795-503m March 24, 1993.