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## SIO Reference

### Title

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

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

# PORIFERA

Spencer R. Luke

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## PREFACE

This is the sixth 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 1162 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 J. N. A. Hooper and F. Wiedenmayer (1994. Zoological Catalogue of Australia, Vol. 12, "Porifera". Australian Biological Resources Study. CSIRO: Melbourne, Australia.)

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 Mary K. Harper of the Scripps Marine Research Lab for invaluable suggestions on taxonomic names.

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.

Coelenterata, SIO Reference Series, SIO Reference No 98-02, June 1998, 54pp.



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## DEMOSPONGIAE

### AGELASIDA

#### ASTROSCLERIDAE

##### *Astrosclera willeyana* Lister 1900

P 1159 Ant Atoll, Pohnpei- FSM. Coll. Bewley & Carte. Det. MK Harper.

### ASTROPHORIDA

#### ANCORINIDAE

##### *Penares cortius*

P 145 S. East end of Coronado Is, Islas Coronados, Baja California Norte, Mexico. 16m July 1, 1965.

P 146 Hopkins Bridge, 17 m. East of Quast Rock, 2 km. W.N. West of Point La Jolla, Calif. 28m.

P 147 Quast Rock, off Point La Jolla, La Jolla, California. 20m May 1, 1965.

##### *Penares saccharis* (deLaubenfels)

P 1041 S-5. San Onofre, California. 5-20m On shell. June 2, 1965. Coll. J.A. Haugsness.

##### *Stelletta* sp.

P 125 Quast Rock, off Point La Jolla, La Jolla, California. 25m April 19, 1966.

P 126 Sumner Canyon, La Jolla, California. 37m August 6, 1965.

P 127 Quast Rock, off Point La Jolla, La Jolla, California. 25m April 19, 1966.

P 128 Quast Rock, off Point La Jolla, La Jolla, California. 20m May 1, 1965.

P 129 Quast Rock, off Point La Jolla, La Jolla, California. 20m May 1, 1965.

#### COPPATIIDAE

##### *Jaspis* sp.

P 1108 Western Marine Lake, Palau Islands. 2m. January 20, 1989. Coll. Brian Sullivan.

#### GEODIIDAE

##### *Geodia* sp.

P 298 Hopkins Bridge, 17 m. West of Quast Rock, Point La Jolla, California. 28m September 2, 1964.

##### *Geodia mesotriaena*

P 46 Cod Hole, South side of La Jolla Canyon, off La Jolla Shores, La Jolla, Calif. 37m July 7, 1965.

P 47 New Hope Rock, 1 km. N. West of Coast Guard lighthouse, Point Loma, California. 10-13m August 13, 1965.

P 48 Quast Rock, off Point La Jolla, La Jolla, California. 25m September 2, 1964.

P 978 Point Loma, San Diego, California. 16m Coll. Jeff Rude.

##### *Geodia mesotriaena* Lendenfeld

P 243 La Jolla Kelp Beds, La Jolla, California. 30m November 21, 1951.

P 978 Point Loma, San Diego, California. 16m Coll. Jeff Rude.

## DENDROCERATIDA

#### DARWINELLIDAE

##### *Aplysilla glacialis* (Dybowski)

P 1048 S-12. Santa Cruz Island, California. 5-20m June 19, 1979. Coll. R. Osman.

##### *Chelonapysilla* sp.

P 1107 Kaibaku Marine Lake, Palau Islands. 2m. January 28, 1989. Coll. Steve Bobzin.

P 1112 Ant Atoll, Tauenai Passage, Pohnpei. 14-20m Coll. Steve Bobzin.

#### DYSIDEIDAE

##### *Dysidea* sp.

P 1111 San Jose, Batangas, Philippine Islands. 20m Coll. Anna Pison.

##### *Dysidea amblia* (deLaubenfels)

P 39 Barn Kelp Bed, 3 km. South of San Onofre Power Plant, 1 km. offshore, San Onofre. 15m August 19, 1965.

P 40 San Onofre, California. 5-7m. On rocks. March 10, 1965.

P 41 Cal Western Reef, Off university on Point Loma, San Diego, California. 26m September 8, 1965.

P 42 New Hope Rock, 1 km. N. West of Coast Guard lighthouse, Point Loma, California. 10-13m August 13, 1965.

P 990 San Onofre, California. October 4, 1973. Coll. Terry Parr.

P 991 San Mateo kelp beds, San Onofre, California. June 1974.

*Dysidea fragilis*

P 1154 Pohnpei- Ant Atoll, Tauenai Passage. 33m  
Det. Salomon & Harper.

*Dysidea herbacea*

P 1143 93-165. Palau. Det. Mia Unson.

## APLYSILLIDAE

*Dendrilla sp.*

P 782 Cape Armitage, Antarctica. 38m SCUBA.  
September 10, 1975. Coll. J. Rude. Det. J.  
Rude.

P 1114 Kawilak Pass, Ponape. Coll. B. Carte & B.  
Sullivan.

*Dendrilla membranosa* (Pallas)

P 1012 Cape Armitage, McMurdo Sound, Antarctica.  
27m SCUBA. September 11, 1974. Coll. J.  
Rude.

P 1032 Sta. CS. Arrival Heights, McMurdo Sound,  
Antarctica. 47m November 3, 1968. Det. V.M.  
Koltun.

P 783 Cape Armitage, Antarctica. 27m SCUBA.  
September 12, 1975. Coll. J. Rude.

P 784 Cape Armitage, Antarctica. 30m SCUBA.  
September 14, 1975. Coll. J. Rude. Det. J.  
Rude.

P 785 Cape Armitage, Antarctica. 36m SCUBA.  
October 4, 1975. Coll. J. Rude.

P 855 Hut Point, Antarctica. 22m October 17, 1967.  
Coll. Robilliard & Dayton. Det. V.M. Koltun.

## DICTYOCERATIDA

## IRCINIIDAE

*Fasciospongia sp.*

P 1129 87-2-18. Fiji. Det. M.K. Harper.

P 1131 158-5. Fiji.

P 1147 NCI 325A. Philippines. Det. M.K. Harper.

*Fenestraspongia sp.*

P 1117 Drop-off on Northwest side of Urukthapel  
Island, Palau. 3-11m.

*Ircinia sp.*

P 1156 Caribbean Ptc. Borguessa (? Bahamas). 13m  
July 17, 1986. Coll. Carte & Kernan. Det. MK  
Harper.

P 1164 Philippines. Det. MK Harper.

*Luffariella sp.*

P 1126 Palau. 13-17m Coll. Joe Pawlik & Brian  
Sullivan.

P 1161 Bolinao, Pangasinan (Philippines). 23m  
Det. MK Harper.

P 1166 "Tee" marine lake, Palau. Det. MK Harper.

*Luffariella variabilis*

P 1125 Palau. 13-17m Coll. Joe Pawlik & Brian  
Sullivan. Det. Klaus Ruetzler.

*Smenospongia sp.*

P 1134 "La Dame" East South East of Therese Island,  
Mahe, Seychelles.

## SPONGIDAE

*Cacospongia sp.*

P 1124 Mant "Island", Pohnpei. 3-5m Coll. B. Carte.

*Leiosella sp.*

P 1142 NCI 1134 Philippines

*Spongia mutamata*

P 1165 Risong marine lake, Palau. Det. MK Harper.

## HADROMERIDA

## CLIONIDAE

*Cliona celata sp.*

P 31 S. end of Bahia Almejas, Baja California Sur,  
Mexico. 1m. June 14, 1965.

P 32 2 km. off sewage plant, Point Loma, San Diego,  
California. 33-36m August 13, 1965.

P 33 Cal Western Reef, off university on Point Loma,  
San Diego, California. 27m September 8, 1965.

P 34 Sumner Canyon, La Jolla, California. 37m  
August 6, 1965.

P 35 East wall of Sumner Canyon, La Jolla,  
California. 33-40m September 8, 1964.

*Cliona celata var. californica* deLaubenfels

P 1052 S-1. San Onofre, California. 5-20m From shell  
of *Kelletia*. April 17, 1978.

## LATRUNCULIIDAE

*Latrunculia sp.*

P 1102 Docks at Jervis Bay, Australia. October 17,  
1987. Coll. Denis Manker.

*Latrunculia apicalis* Ridley & Dendy

P 780 Cape Armitage, Antarctica. 23m SCUBA.  
September 12, 1975. Coll. J. Rude.

P 781 Cape Armitage, Antarctica. 26m SCUBA.  
October 4, 1975. Coll. J. Rude.

P 848 Hut Point, Antarctica. 27m SCUBA. December  
14, 1974. Coll. J. Rude. Det. J. Rude.

P 858 McMurdo Sound, Antarctica. SCUBA. October  
18, 1967. Coll. Robilliard & Dayton. Det. V.M.  
Koltun.

- P 889 Winter Quarters Bay, Antarctica. 23m  
September 11, 1974. Coll. J. Rude. Det. J.  
Rude.
- P 1060 McMurdo Sound, Antarctica. Det. V.M.  
Koltun.

### POLYMASTIIDAE

#### *Polymastia* sp.

- P 102 Sumner Canyon, La Jolla, California. 36m  
August 1, 1965.
- P 103 Railroad wheels, Sumner Canyon, La Jolla,  
California. 38m September 3, 1965.
- P 104 Cod Hole, South side of La Jolla Canyon, La  
Jolla Shores, La Jolla, California. 36m June  
30, 1965.
- P 105 Cod Hole, South side of La Jolla Canyon, La  
Jolla Shores, La Jolla, California. 40m August  
31, 1965.
- P 106 X-14.

#### *Polymastia invaginata* Kirkpatrick

- P 771 Cape Armitage, Antarctica. 23m SCUBA.  
September 12, 1975. Coll. J. Rude.
- P 772 Cape Armitage, Antarctica. 23m SCUBA.  
September 29, 1975. Coll. J. Rude.
- P 773 Cape Armitage, Antarctica. 26m SCUBA.  
October 4, 1975. Coll. J. Rude.
- P 774 Cape Armitage, Antarctica. 20m SCUBA.  
October 7, 1975. Coll. J. Rude.
- P 854 Cape Armitage, Antarctica. 25m December 6,  
1967. Coll. Robilliard & Dayton. Det. V.M.  
Koltun.
- P 1031 Cape Armitage, Antarctica. 33m SCUBA.  
December 13, 1974. Coll. J. Rude.

#### *Sphaerotylus antarcticus* (Kirkpatrick)

- P 792 Cape Armitage, Antarctica. 23m SCUBA.  
September 12, 1975. Coll. J. Rude.
- P 793 Cape Armitage, Antarctica. 20m SCUBA.  
September 20, 1975. Coll. J. Rude.
- P 794 Cape Armitage, Antarctica. 28m SCUBA.  
October 4, 1975. Coll. J. Rude.
- P 856 Hut Point, Antarctica. 23m October 17, 1967.  
Coll. Robilliard & Dayton. Det. V.M. Koltun.
- P 904 South Cape Armitage, Antarctica. 20m  
SCUBA. December 13, 1974. Coll. J. Rude.  
Det. J. Rude.
- P 1018 Cape Armitage, McMurdo Sound, Antarctica.  
30m November 11, 1974.
- P 1062 McMurdo Sound, Antarctica. Det. V.M.  
Koltun.

### SPIRASTRELLIDAE

#### *Sphaciospongia confoederata*

- P 25 Cove South of La Buffadora, Ensenada, Baja  
California Norte, Mexico. 10m August 18,  
1965.

- P 26 New Hope Rock, 1 km. N. West of Coast Guard  
lighthouse, Point Loma, California. 10-13m  
August 13, 1965.
- P 27 N. Bird Rock, La Jolla, California. Low tide.  
Ledges. April 30, 1966.
- P 28 Quast Rock, off Point La Jolla, La Jolla,  
California. 28m September 2, 1964.
- P 29 Auso Beach. 10m Rocks. September 5, 1964.
- P 30 Quast Rock, off Point La Jolla, La Jolla,  
California. 23m May 1, 1965.
- P 150 MV71-I-38. Kelp beds South of breakwater, Isla  
San Martin, Baja Calif. Norte, Mexico. 30°29'N  
116°7'W 0-10m Intertidal & SCUBA. May 28,  
1971 R/V Agassiz. Coll. C. Hubbs, S. Luke.

### SUBERITIDAE

- P 552 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.

#### *Rhizaxinella* sp.

- P 132 East wall of Sumner Canyon, La Jolla,  
California. 33-40m September 8, 1964.

#### *Suberites* sp.

- P 130 Cod Hole, South side of La Jolla Canyon, La  
Jolla Shores, La Jolla, California. 37m June 30,  
1965.
- P 131 Quast Rock, 2 km. W.N. West of Point La Jolla,  
La Jolla, California. 25m April 19, 1966.

### TETHYIDAE

- P 1148 93-08-112. Australia.

#### *Tethya aurantia* (Pallas)

- P 138 Wind & Sea kelp bed, La Jolla, California. 18m  
September 3, 1964.
- P 139 Barn Kelp Bed, 3 km. South of San Onofre  
Power Plant, San Onofre, California. 15m  
August 19, 1965.
- P 140 Hopkins Bridge, 17 m. East of Quast Rock, 2  
km. W.N. West of Point La Jolla, Calif. 28m  
September 2, 1964.
- P 141 Cod Hole, South side of La Jolla Canyon, off La  
Jolla Shores, La Jolla, Calif. 37m June 30, 1965.
- P 142 17 m. East of Hopkins Bridge, La Jolla,  
California. 28m September 2, 1964.
- P 143 Sumner Canyon, La Jolla, California. 37m  
August 6, 1965.
- P 220 SIOM59-30-2. La Jolla Kelp Beds, La Jolla,  
California. February 24, 1959.
- P 221 SIOM60-91-3. Point Loma, San Diego,  
California. 13m Kelp beds. June 22, 1960. Coll.  
J. Jordan.
- P 462 La Jolla kelp bed, La Jolla, California. 30m  
November 23, 1951.

- P 1039 S-3. San Onofre, California. 5-20m April 14, 1978. Coll. J.A. Haugness.

### THEONELLIDAE

- P 1167 Malangaan Reef, off southern Mozambique. 26°46'S 32°54'E. Coll. Dr. Brad Carte.

### TIMEIDAE

#### *Timea* sp.

- P 1038 S-1. San Onofre, California. 5-20m Rock. December 16, 1977. Coll. J.A. Haugness.

### TRACHYCLADIDAE

#### *Trachycladus laevispirulifer*

- P 1152 Australia.

## HALICHONDRIDA

### AXINELLIDAE

#### *Acanthella cavernosa* Dendy 1922

- P 1136 Coral Garden offshore of Coral Strand Beach, Beau Vallon, Mahe, Seychelles. 8m Det. Van Soest.

#### *Axinella* sp.

- P 7 Cod Hole, North of La Jolla Cove, La Jolla, California. 40m August 31, 1965. Coll. E. Smith.  
P 1103 Main channel into harbor on North side of island, Mwang Pass, Pohnpei. January 12, 1985. Det. B. Sullivan & Brad Carte.

#### *Axinella mexicana*

- P 4 17 m. East of Hopkins Bridge, Quast Rock, W.N. West of Point La Jolla, California. 29m September 2, 1964.  
P 5 Cod Hole, South side of La Jolla Canyon, La Jolla Shores, La Jolla, California. 40m September 2, 1965.  
P 8 1 km. off Casa Beach, La Jolla, California. 11m August 6, 65.  
P 9 Quast Rock, La Jolla, California. May 1, 65. Coll. E. Smith.

#### *Homaxinella* sp.

- P 764 Cape Armitage, Antarctica. 20m SCUBA. September 9, 1975. Coll. J. Rude.  
P 765 Cape Armitage, Antarctica. 23m SCUBA. September 12, 1975. Coll. J. Rude.  
P 766 Cape Armitage, Antarctica. 20m SCUBA. September 20, 1975. Coll. J. Rude.

- P 767 Cape Armitage, Antarctica. 20m SCUBA. October 5, 1975. Coll. J. Rude.  
P 895 Cape Armitage, Antarctica. 20m SUBA. December 14, 1975. Coll. J. Rude.  
P 1019 Cape Armitage, McMurdo Sound, Antarctica. 23m SUBA. September 11, 1975. Coll. J. Rude.

#### *Pseudaxinella* sp.

- P 22 Cod Hole, South side of La Jolla Canyon, La Jolla Shores, La Jolla, California. 40m September 2, 1965.  
P 23 Hopkins Bridge, 17 m West of Quast Rock, W.N. West of Point La Jolla, California. 25m August 10, 1965.  
P 24 #16. Quast Rock, 2 km. W.N. West of Point La Jolla, La Jolla, California. 23m May 1, 1965.

#### *Pseudaxinella massa* (Carter)

- P 1137 Iniban, Ayungan Negros Oriental, Philippine Islands. Det. Van Soest.

### HALICHONDRIIDAE

#### *Axinyssa* sp.

- P 1104 Gun Beach, Guam. 3m. 1985. Coll. Valerie Paul.

#### *Axinyssa aplysinoides* (Dendy 1922)

- P 1119 Tauernai Passage, Ant Atoll, Pohnpei. 14m Coll. S. Bobzin. Det. Van Soest.  
P 1138 Pohnpei- Mutok Harbor Channel. 20m Coll. Steve Bobzin.  
P 1150 Philippines.  
P 1158 Palau. Coll. Joe Pawiik. Det. MK Harper.

#### *Axinyssa-Trachytopsis aplysinoides*

- P 1140 85-065. Big Gun, Palau. 18m Brian Sullivan, Joe Pawlik.

#### *Halichondria* sp.

- P 1113 Shallow cove at North side of Malakal Harbor, Palau. 2m Coll. Steve Bobzin & B. Carte.  
P 1116 Marine lake on East side of Urulthapel Island, Palau. 2m Coll. Roger Walker.  
P 1123 Aru Pass, Pohnpei. 13m Coll. B. Carte & B. Sullivan.  
P 1127 Marshall Islands. 7m Coll. Debbie Zmarzly.

#### *Halichondria* cf. *panicea* (Pallas)

- P 985 San Onofre, California. October 3, 1973.

#### *Hymeniacion sinapium*

- P 14 Floating docks, Mission Bay, San Diego, California. May 22, 1966.  
P 19 Floating docks, Mission Bay, San Diego, California. May 22, 1966.  
P 15 North Bird Rock, La Jolla, California. Low tide. Ledges. April 30, 1966.

*Oxeostilon* sp.

- P 6 Cod Hole, North of La Jolla Cove, La Jolla, California. 40m August 31, 1965. Coll. E. Smith.
- P 10 Auso Beach. 10m Rocks. September 5, 1964.

*Stylotella aurantium*

- P 1162 Lamellaria Bay, Palau. Most common sponge in Palau. Det. MK Harper.

## HAPLOSCLERIDA

## CALLYSPONGIIDAE

*Callyspongia* cf. *fibrosa*

- P 1139 Pohnpei- Nakap Island (near Nan Madol). 13m Coll. Steve Bobzin.

## CHALINIDAE

*Gellius* sp.

- P 786 Cape Armitage, Antarctica. 40m SCUBA. September 10, 1975. Coll. J. Rude.

*Gellius* cf. *benedeni* Topsent

- P 788 Cape Armitage, Antarctica. 30m SCUBA. September 14, 1975. Coll. J. Rude.
- P 789 Cape Armitage, Antarctica. 35m SCUBA. September 18, 1975. Coll. J. Rude.
- P 872 Cape Armitage, Antarctica. 40m SCUBA. November 22, 1974.
- P 899 Cape Armitage, Antarctica. 33m SCUBA. September 9, 1974. Coll. J. Rude. Det. J. Rude.

*Gellius tenella* (Topsent)

- P 787 Cape Armitage, Antarctica. 30m SCUBA. September 14, 1975. Coll. J. Rude.
- P 790 Cape Armitage, Antarctica. 33m SCUBA. October 7, 1975. Coll. J. Rude.
- P 791 Cape Armitage, Antarctica. 23m SCUBA. September 12, 1975. Coll. J. Rude.
- P 875 Cape Armitage, Antarctica. 28m SCUBA. December 6, 1967. Coll. Robilliard & Dayton. Det. V.M. Koltun & Berquist.
- P 1064 McMurdo Sound, Antarctica. Det. Berquist.

*Haliclona* sp.

- P 49 15 m. East of Hopkins Bridge, N. Quast Rock, La Jolla, California. 29m September 3, 1965.
- P 50 Cod Hole, South side of La Jolla Canyon, La Jolla Shores, La Jolla, California. 36m July 7, 1965.
- P 51 Cod Hole, South side of La Jolla Canyon, La Jolla Shores, La Jolla, California. 36m June 30, 1965.

- P 53 Cal Western Reef, Off university on Point Loma, San Diego, California. 26m September 8, 1965.
- P 54 Railroad wheels, Sumner Canyon, La Jolla, California. 38m September 3, 1965.
- P 55 Railroad wheels, Sumner Canyon, La Jolla, California. 38m September 3, 1965.
- P 56 Cod Hole, South side of La Jolla Canyon, La Jolla Shores, La Jolla, California. 36m June 30, 1965.
- P 57 Barn Kelp Bed, 3 km. South of San Onofre Power Plant, 1 km. offshore, San Onofre. 15m August 19, 1965.
- P 1115 #7 marker, Palau. Coll. J. Pawlik & B. Sullivan.
- P 1149 POH 93-098. Ant Atoll Pohnpei.
- P 1160 Kulamau, Palau. 20m Coll. Larry Sharron. Det. MK Harper.

*Haliclona cinera*

- P 52 North Bird Rock, La Jolla, California. Low tide. Ledges. April 30, 1966.

*Haliclona dancoi* (Topsent)

- P 742 Cape Armitage, Antarctica. 26m SCUBA. September 9, 1975. Coll. J. Rude.
- P 743 Cape Armitage, Antarctica. 30m SCUBA. September 14, 1975. Coll. J. Rude.
- P 744 Cape Armitage, Antarctica. 38m SCUBA. October 4, 1975. Coll. J. Rude. Det. J. Rude.
- P 864 Cape Armitage, Antarctica. 33m SUBA. September 15, 1975. Coll. J. Rude.
- P 883 Cape Armitage, Antarctica. 27m SUBA. December 14, 1974. Coll. J. Rude. Det. J. Rude.
- P 888 Cape Armitage, Antarctica. 21m SUBA. December 6, 1967. Coll. Robilliard & Dayton. Det. V.M. Koltun.

*Reniera* sp.

- P 1106 Small marine lake, Palau Islands. 2m. February 3, 1988. Coll. John Faulkner & Brad Carte.

*Sigmatocia* sp.

- P 295 Quast Rock, Point La Jolla, California. 25m April 19, 1966.

*Sigmatocia edaphus* deLubenfels

- P 282 Railroad wheels, W. wall, N. branch of Sumner Canyon, La Jolla, California. 38m September 3, 1965.

*Toxadocia* sp.

- P 297 Hopkins Bridge, 17 m. West of Quast Rock, Point La Jolla, California. 28m September 2, 1964.

*Toxadocia zumi* Ristau

- P 328 Cal Western Reef, Point Loma, San Diego, California. 27m September 8, 1965.

## NIPHATIDAE

*Microxina benedeni* (Topsent)

- P 852 Hut Point, Antarctica. 41m SUBA. November 3, 1967. Coll. Robilliar & Dayton. Det. V.M. Koltun.  
 P 1057 McMurdo Sound, Antarctica. Det. V.M. Koltun.

*Pachychalina lunisimilis* (deLaubenfels)

- P 1051 S-15. Catalina Island, California. 5-20m Rock. June 30, 1980. Coll. R. Osman.

## PETROSIIDAE

*Stongylophora durissima*

- P 1100 Sepak Wall, Maricaban Island, Philippine Islands. 5m SCUBA. coral substrate. December 30, 1988. Coll. Anna Pison. Det. M.K. Harper.

*Xestospongia* sp.

- P 1118 In a cavern on West side of Urukthapel Island, Palau. 7m Coll. S. Bobzin & B. Carte.  
 P 1146 S28. Cape Bolinoa, N W Luzon (Philippines)

## PHLOEODICTYIDAE

*Aka (Siphondictyton) coralliphagum* (Rutzler 1971)

- P 1141 85-065 San Salvador Islands Bahamas. Det. Mary K. Harper.

*Calyx arcuarius* (Topsent)

- P 745 Cape Armitage, Antarctica. 26m SCUBA. September 9, 1975. Coll. J. Rude.  
 P 746 Cape Armitage, Antarctica. 26m SCUBA. September 12, 1975. Coll. J. Rude.  
 P 747 Cape Armitage, Antarctica. 43m SCUBA. September 23, 1975. Coll. J. Rude.  
 P 748 Cape Armitage, Antarctica. 26m SCUBA. October 4, 1975. Coll. J. Rude.  
 P 843 Cape Armitage, Antarctica. 26m SUBA. September 26, 1974.  
 P 882 Cape Armitage, Antarctica. 30m SUBA. December 6, 1967. Coll. Robilliard & Dayton. Det. V.M. Koltun.  
 P 1063 McMurdo Sound, Antarctica. Det. V.M. Koltun.

*Calyx podatypa* (de Laubenfels 1934)

- P 1109 Jamaica Bay, Bahamas. 3m Coll. Steve Bobzin & Denis Manker. Det. R. Van Soest.

*Oceanapia* sp.

- P 1153 Philippines..

*Oceanapia sagittaria* (Sollas 1902)

- P 1163 Ngerubtebel marine lake. Also common in other lakes, most common at entrance to Swamp Lake. Coll. Harper & Sharron. Det. MK Harper.

## HOMOSCLEROPHORIDA

## PLAKINIDAE

*Plakina* sp.

- P 1105 inside reefs surrounding Mant Island, Pohnpei. 3-7m. January 11, 1983. Coll. B. Sullivan & Brad Carte.

*Plakortis angulospiculatus* (Carter 1882)

- P 1110 Long Cay, Glovers Reef, Belize. encrusted by *Xestospongia*. August 13, 1989. Coll. Steve Bobzin. Det. R. Van Soest.  
 P 1128 Horse Shoe Reef, Tobago Cays, Caribbean. 17m Coll. Mike Kernan & Brad Carte. Det. M.K. Harper.

*Plakortis halichondroides* (Wilson 1902)

- P 1145 JAM90-003. Discovery Bay, Jamaica. "Encrusting, dark green to black chicken liver sponge". November 26, 1990. Coll. Brad Carte.

## POECILOSCLERIDA

## COELOSPHAERIDAE

*Astylinifer arndti* sp.

- P 36 SouthEast end of North Island, Coronado, California. 10m July 1, 1965.  
 P 37 SouthEast end of North Island, Coronado, California. August 19, 1965.  
 P 38 SouthEast end of North Island, Coronado, California. 50m July 1, 1965.

*Inflatella* sp.

- P 20 Cal Western Reef, off university on Point Loma, San Diego, California. September 8, 1965.  
 P 21 New Hope Rock, 1 km. N. West of Coast Guard lighthouse, Point Loma, California. 10-13m August 13, 1965.

*Inflatella belli* (Kirkpatrick)

- P 842 Cape Armitage, McMurdo Sound, Antarctica. 26m SCUBA. November 30, 1967. Coll. Dayton & Robilliard. Det. V.M. Koltun.  
 P 863 Hut Point, Antarctica. 23m SCUBA. December 14, 1974.  
 P 1017 Cape Armitage, McMurdo Sound, Antarctica. 30m November 11, 1974.

*Plocamionida lyoni* (Bakus 1966)

- P 339 New Hope Rock 1 km. North of Coast Guard lighthouse, Point Loma, California. 10-13m August 13, 1965. Det. W.L. Lee /98.

*Zyzzya fuliginosa*

- P 1155 Nahpali Island, old concrete boat dock, Pohnpei (SSW side of mainland). A fringing islet. Coll. Dr. Carte & Bewley.

*Zyzzya cf. massalis* (Dendy)

- P 1130 Fiji. Det. M.K. Harper.

*Zyzzya massaii*

- P 1101 Drop off at Nemelis, Palau. 20m February 2, 1988. Coll. Steve Bobzin & Brad Carte. Det. Rob Van Sorst.

## DESMACELLIDAE

*Desmacella* sp.

- P 43 Quast Rock, off Point La Jolla, La Jolla, California. 20m May 1, 1965.
- P 633 R-39. San Diego Trough, California. 32°36.5'N 117°32.5'W 1161-1198m 25' otter trawl. Mud. July 12, 1971 1145-1450. R/V Agassiz. Coll. F. Rokop.

## DESMACIDIDAE

*Isodictya antarctica* (Kirkpatrick)

- P 749 Cape Armitage, Antarctica. 36m SCUBA. September 18, 1975. Coll. J. Rude.
- P 750 Cape Armitage, Antarctica. 31m SCUBA. October 4, 1975. Coll. J. Rude.
- P 751 Cape Armitage, Antarctica. 30m SCUBA. September 14, 1975. Coll. J. Rude.
- P 752 Cape Armitage, Antarctica. 47m SCUBA. September 10, 1975. Coll. J. Rude.

*Isodictya erinacea* (Topsent)

- P 753 Cape Armitage, Antarctica. 23m SCUBA. September 12, 1975. Coll. J. Rude.
- P 754 Cape Armitage, Antarctica. 30m SCUBA. September 14, 1975. Coll. J. Rude.
- P 755 Cape Armitage, Antarctica. 43m SCUBA. September 23, 1975. Coll. J. Rude.
- P 756 Cape Armitage, Antarctica. 40m SCUBA. September 27, 1975. Coll. J. Rude.
- P 757 Cape Armitage, Antarctica. 32m SCUBA. October 4, 1975. Coll. J. Rude.
- P 847 Hut Point, Antarctica. SCUBA. December 14, 1974. Coll. J. Rude. Det. J. Rude.
- P 860 Cape Armitage, Antarctica. 33m SCUBA. December 5, 1967. Coll. Robilliard & Dayton. Det. V.M. Koltun.
- P 874 Cape Armitage, Antarctica. 30m SCUBA. December 6, 1967. Coll. Robilliard & Dayton. Det. V.M. Koltun.

- P 877 Hut Point, Antarctica. 40m SCUBA. September 29, 1968. Coll. Dayton. Det. V.M. Koltun.
- P 878 Cape Armitage, Antarctica. 33m SCUBA. September 13, 1974. Coll. J. Rude. Det. J. Rude.
- P 1058 McMurdo Sound, Antarctica. Det. V.M. Koltun.

*Isodictya sertifer* (Topsent)

- P 758 Cape Armitage, Antarctica. 27m SCUBA. September 12, 1975. Coll. J. Rude.
- P 759 Cape Armitage, Antarctica. 36m SCUBA. October 4, 1975. Coll. J. Rude.
- P 840 Cape Armitage, Antarctica. 33m SCUBA. December 5, 1967. Coll. Robilliard & Dayton. Det. V.M. Koltun.
- P 849 Cape Armitage, Antarctica. 23m SCUBA. December 13, 1974. Coll. J. Rude. Det. J. Rude.
- P 886 Cape Armitage, Antarctica. SCUBA. September 16, 1974. Coll. J. Rude. Det. J. Rude.
- P 1059 McMurdo Sound, Antarctica. Det. V.M. Koltun.

*Psammodemma* sp.

- P 277 Cod Hole, South side of La Jolla Canyon, La Jolla Shores, La Jolla, California. 40m August 31, 1965.

## GUITARRIDAE

*Guitarra fimbriata*

- P 11 Cod Hole, South side of La Jolla Canyon, La Jolla Shores, La Jolla, California. 40m August 31, 65.
- P 12 Railroad wheels, Sumner Canyon, La Jolla, California. 38m September 3, 65.
- P 13 Cod Hole, South side of La Jolla Canyon, La Jolla Shores, La Jolla, California. 40m August 31, 65.
- P 16 Sumner Canyon, La Jolla, California. 37m August 6, 65.

## HYMEDESMIIDAE

*Hymenamphiastra cyanocrypta*

- P 58 SouthEast end of North Island, Coronado, California. 10m July 1, 1965.
- P 59 Hopkins Bridge, 17 m. West of Quast Rock, 2 km. W.N. West of Point La Jolla, Calif. 25m August 10, 1965.

## MICROCIONIDAE

*Anaata* sp.

- P 63 Cal Western Reef, Off university on Point Loma, San Diego, California. 27m September 8, 1965.

*Anaata brepha*

- P 60 South East of North Island, Coronado, California. August 2, 1965.



- P 61 New Hope Rock, 1 km. N.West of Coast  
Guard lighthouse, Point Loma, California. 10-  
13m August 13, 1965.

*Anaata spongigartina*

- P 62 Cod Hole, South side of La Jolla Canyon off  
La Jolla Shores, North of La Jolla Cove. 40m  
August 31, 1965.

*Axociella* sp.

- P 17 Cove South of Punta Banda, Ensenada, Baja  
California Norte, Mexico. 10m August 18,  
1965.  
P 18 N. Bird Rock, La Jolla, California. Ledges.  
Low tide. April 30, 1966.

*Clathriopsamma* sp.

- P 67 Quast Rock, 2 km. W.N.West of Point La Jolla,  
La Jolla, California. May 1, 1965.  
P 67 Quast Rock, 2 km. W.N.West of Point La Jolla,  
La Jolla, California. May 1, 1965.  
P 68 Railroad Wheels, Sumner Canyon, La Jolla,  
California. 38m September 3, 1965.  
P 69 Cod Hole, South side of La Jolla Canyon, La  
Jolla Shores, La Jolla, California. 36m June  
30, 1965.  
P 70 Cod Hole, South side of La Jolla Canyon, La  
Jolla Shores, La Jolla, California. 40m  
August 31, 1965.

*Clathriopsamma pseudonapya*  
deLaubenfels

- P 1002 Quast Rock, off Point La Jolla, La Jolla,  
California. August 1974.  
P 1003 Quast Rock, off Point La Jolla, La Jolla,  
California. August 1973.

*Isociona* sp.

- P 71 Hopkins Bridge, 17 m West of Quast Rock,  
W.N.West of Point La Jolla, California. 25m  
August 10, 1965.  
P 73 Cod Hole, South side of La Jolla Canyon, La  
Jolla Shores, La Jolla, California. 40m  
August 31, 1965.  
P 74 Quast Rock, 2 km. W.N.West of Point La Jolla,  
La Jolla, California. 20m.  
P 75 New Hope Rock, 1 km. N.West of Coast  
Guard lighthouse, Point Loma, California. 10-  
13m August 13, 1965.  
P 76 No data.  
P 77 Cod Hole, South side of La Jolla Canyon, La  
Jolla Shores, La Jolla, California. 37m June  
30, 1965.

*Isociona lithophoenix*

- P 72 New Hope Rock, 1 km. N.West of Coast  
Guard lighthouse, Point Loma, California. 10-  
13m August 13, 1965.

*Microcion* sp.

- P 66 N. Bird Rock, La Jolla, California. Low tide.  
Ledges. April 30, 1966.

*Microcion microjoanna*

- P 64 Cal Western Reef, Off university on Point Loma,  
San Diego, California. 26m September 8, 1965.  
P 65 New Hope Rock, 1 km. N.West of Coast Guard  
lighthouse, Point Loma, California. 10-13m  
August 13, 1965.

*Plocamia izgo*

- P 98 Cove South of La Buffadora, Punta Banda,  
Ensenada, Baja California Norte, Mexico. 10m  
August 18, 1965.  
P 100 SouthEast end of North Island, Islas Coronados,  
Baja California Norte, Mexico. 17m July 1,  
1965.  
P 101 Barn Kelp Bed, 3 km. South of San Onofre  
Power Plant, 1 km. offshore, San Onofre. 15m  
August 19, 1965.  
P 144 SouthEast end of North Island, Islas Coronados,  
Baja California Norte, Mexico. 17m July 1,  
1965.

*Plocamia karykina* (deLaubenfels)

- P 99 N. Bird Rock, La Jolla, California. Low tide.  
Ledges. April 30, 1966.  
P 989 San Onofre, California. October 3, 1973. Coll.  
Terry Parr.

*Tablis* sp.

- P 279 San Onofre Power Station, San Onofre,  
California. 15m August 19, 1965.

MYCALIDAE

*Mycale* sp.

- P 763 Cape Armitage, Antarctica. 45m SCUBA.  
September 10, 1975. Coll. J. Rude.

*Mycale acerata* Kirkpatrick

- P 760 Cape Armitage, Antarctica. 26m SCUBA.  
September 29, 1975. Coll. J. Rude.  
P 761 Cape Armitage, Antarctica. 36m SCUBA.  
October 4, 1975. Coll. J. Rude.  
P 762 Cape Armitage, Antarctica. 33m SCUBA.  
October 9, 1975. Coll. J. Rude.  
P 887 Hut Point, Antarctica. 40m November 7, 1967.  
Det. V.M. Koltun.  
P 1035 Cape Armitage, Antarctica. 26m SUBA.  
September 17, 1974. Coll. J. Rude. Det. J. Rude.

*Mycale bellabellensis*

- P 44 Cal Western Reef, Off university on Point Loma,  
San Diego, California. 26m September 8, 1965.

*Mycalecarmia* sp.

- P 45 Cod Hole, South side of La Jolla Canyon, off La  
Jolla Shores, La Jolla, Calif. 38m June 30, 1965.

## MYXILLIDAE

P 97 Quast Rock, La Jolla, California. May 1, 1965.

*Acarnus eirthacus* de Laubenfels

P 198 CIRCE Sta. 87. Indian Ocean. 1900-2050m.

P 1 X-11.

P 2 Cal Western Reef, off university on Point Loma, San Diego, California. 27m September 8, 1965.

P 3 17 m. East of Hopkins Bridge, Point La Jolla, La Jolla, California. 28m September 2, 1964.

P 992 Sta. 4A-7. Point Conception, California. December 15, 1975.

P 998 Point Conception, California. 10m On abalone shell. December 16, 1974.

*Lissodendoryx* sp.

P 83 Cod Hole, South side of La Jolla Canyon off La Jolla Shores, North of La Jolla Cove. 37m June 30, 1965.

P 94 Cod Hole, South side of La Jolla Canyon off La Jolla Shores, North of La Jolla Cove. 40m August 31, 1965.

P 95 Railroad wheels, Sumner Canyon, La Jolla, California. 37m September 3, 1965.

P 96 New Hope Rock, 1 km. N. West of Coast Guard lighthouse, Point Loma, California. 10-13m August 13, 1965.

P 662 R-28. San Diego Trough, California. 32°35'N 117°33.6'W 1183-1216m 25' otter trawl. Mud. January 21, 1971 1850-2116. R/V Agassiz. Coll. F. Rokop.

*Lissodendoryx topsenti* (deLaubenfels)

P 986 San Onofre, California. October 3, 1973.

*Myxilla* sp.

P 82 Quast Rock, W.N. West of Point La Jolla, La Jolla, California. 20m May 1, 1965.

P 87 Hopkins Bridge, 17 m. West of Quast Rock, 2 km. W.N. West of Point La Jolla, Calif. 21m August 10, 1965.

P 91 Cod Hole, South side of La Jolla Canyon off La Jolla Shores, North of La Jolla Cove. 37m June 30, 1965.

*Myxilla agennes*

P 78 Railroad wheels, Sumner Canyon, La Jolla, California. 39m September 3, 1965.

P 80 Railroad wheels, Sumner Canyon, La Jolla, California. 39m September 3, 1965.

P 81 Cove South of La Buffadora, Punta Banda, Ensenada, Baja California Norte, Mexico. 10m August 18, 1965.

P 84 Cod Hole, South side of La Jolla Canyon off La Jolla Shores, North of La Jolla Cove. 40m August 31, 1965.

P 85 16 m. East of Hopkins Bridge, W.N. West of Point La Jolla, La Jolla, California. 28m September 2, 1964.

P 86 Cod Hole, South side of La Jolla Canyon off La Jolla Shores, North of La Jolla Cove. 38m June 30, 1965.

P 88 Cod Hole, South side of La Jolla Canyon off La Jolla Shores, North of La Jolla Cove. 40m August 31, 1965.

P 89 16 m. East of Hopkins Bridge, W.N. West of Point La Jolla, La Jolla, California. 28m September 2, 1964.

P 92 Railroad wheels, Sumner Canyon off Scripps Inst., La Jolla, California. 37m September 3, 1965.

P 93 Sumner Canyon off Scripps Inst., La Jolla, California. 36m August 6, 1965.

*Myxilla versicolor*

P 79 Quast Rock, W.N. West of Point La Jolla, La Jolla, California. 20m May 1, 1965.

P 90 Hopkins Bridge, 17 m. West of Quast Rock, 2 km. W.N. West of Point La Jolla, Calif. 25m August 10, 1965.

## RASPAILIIDAE

*Cyamon neon*

P 107 150 m. North of Caves, La Jolla Cove, La Jolla, California. 12m September 8, 1964.

P 108 Hopkins Bridge, 17 m West of Quast Rock, W.N. West of Point La Jolla, California. 25m August 10, 1965.

P 109 Quast Rock, off Point La Jolla, La Jolla, California. 20m May 1, 1965.

P 111 1 km. off South Casa Beach, La Jolla, California. 12m August 6, 1965.

P 112 Hopkins Bridge, 17 m West of Quast Rock, W.N. West of Point La Jolla, California. 25m August 10, 1965.

P 113 X-1.

P 114 1km. South of pier, San Onofre Power Station, San Onofre, California. 7m. August 19, 1965.

*Hemectyon hyle* de Laubenfels

P 110 East wall of Sumner Canyon, La Jolla, California. 33-40m September 8, 1964.

P 115 Railroad wheels, Sumner Canyon, La Jolla, California. 38m September 3, 1965.

P 116 17 m. East of Hopkins Bridge, Quast Rock, W.N. West of Point La Jolla, California. 28m September 2, 1964.

P 117 Railroad wheels, Sumner Canyon, La Jolla, California. 38m September 3, 1965.

P 118 Cod Hole, South side of La Jolla Canyon, La Jolla Shores, La Jolla, California. 36m June 30, 1965.

P 210 Near head of Scripps Canon, La Jolla, California. 330m November 9, 1951.

*Heterectya/Hemectyonilla involutum cerebella*

- P 119 Hopkins Bridge, 17 m. West of Quast Rock, 2 km. W.N. West of Point La Jolla, Calif. 25m August 10, 1965.

*Raspalia (Raspaxilla) sp.*

- P 1151 Palau.

*Trikentrion helium*

- P 120 17 m. East of Hopkins Bridge, 2 km. W.N. West of Point La Jolla, California. 28m September 2, 1964.
- P 121 Hopkins Bridge, 17 m. West of Quast Rock, 2 km. W.N. West of Point La Jolla, Calif. 25m August 10, 1965.
- P 122 Nicklins Reef, rocks 2 km. West of Marine St., La Jolla, California. 30-33m April 21, 1964.
- P 123 Nicklins Reef, rocks 2 km. West of Marine St., La Jolla, California. 30-33m April 21, 1964.
- P 124 Hopkins Bridge, 17 m. West of Quast Rock, 2 km. W.N. West of Point La Jolla, Calif. 25m August 10, 1965.

## TEDANIIDAE

*Kirkpatrickia variolosa* (Kirkpatrick)

- P 795 Cape Armitage, McMurdo Sound, Antarctica. 21m SCUBA. September 12, 1975. Coll. J. Rude.
- P 796 Cape Armitage, McMurdo Sound, Antarctica. 33m SCUBA. October 3, 1965. Coll. J. Rude.
- P 797 Cape Armitage, McMurdo Sound, Antarctica. 27m SCUBA. October 7, 1965. Coll. J. Rude.
- P 853 Hut Point, Antarctica. 30m SCUBA. November 17, 1967. Coll. V.M Koltun.
- P 890 Winter Quarters Bay, Antarctica. 23m SCUBA. September 11, 1964. Coll. J. Rude. Det. J. Rude.
- P 1056 McMurdo Sound, Antarctica. Coll. V.M Koltun.
- P 1144 90-172. Antarctica.

*Tedania sp.*

- P 1001 Quast Rock, W.N. West of Point La Jolla, La Jolla, California. March 8, 1973.

*Tedania ignis*

- P 1157 Caribbean mangroves at Crooked Island. June 9, 1988. Coll. Manker & Bobzin. Det. MK Harper.

## SPIROPHORIDA

## TETILLIDAE

*Cinachyra sp.*

- P 768 Cape Armitage, Antarctica. 30m SCUBA. September 9, 1975. Coll. J. Rude.

*Cinachyra antarctica* (Carter)

- P 769 Cape Armitage, Antarctica. 26m SCUBA. September 16, 1975. Coll. J. Rude.
- P 770 Cape Armitage, Antarctica. 31m SCUBA. October 7, 1975. Coll. J. Rude.
- P 846 South Cape Armitage, Antarctica. 33m SCUBA. December 13, 1974. Coll. J. Rude. Det. J. Rude.
- P 1023 Cape Armitage, Antarctica. 33m SCUBA. September 15, 1974. Coll. J. Rude.

*Tetilla sp.*

- P 133 Hopkins Bridge, 17 m. East of Quast Rock, 2 km. W.N. West of Point La Jolla, Calif. 27m September 2, 1974.
- P 136 Cod Hole, South side of La Jolla Canyon, off La Jolla Shores, La Jolla, Calif. 37m July 7, 1965.
- P 137 Hopkins Bridge, 17 m. East of Quast Rock, 2 km. W.N. West of Point La Jolla, Calif. 27m September 2, 1964.
- P 775 Cape Armitage, Antarctica. 27m SCUBA. September 9, 1975. Coll. J. Rude.
- P 1010 Cape Armitage, Antarctica. 33m SCUBA. September 15, 1974. Coll. J. Rude.

*Tetilla arb*

- P 134 Hopkins Bridge, Point La Jolla, Calif. 25m August 10, 1965.
- P 135 2 km. off sewage plant, Point Loma, San Diego, California. 33-36m August 13, 1965.

*Tetilla leptoderma* Sollas

- P 776 Cape Armitage, Antarctica. 26m SCUBA. September 9, 1975. Coll. J. Rude.
- P 777 Cape Armitage, Antarctica. 30m SCUBA. September 14, 1975. Coll. J. Rude.
- P 778 Cape Armitage, Antarctica. 40m SCUBA. October 4, 1975. Coll. J. Rude.
- P 779 Cape Armitage, Antarctica. 33m SCUBA. October 7, 1975. Coll. J. Rude. Det. J. Rude.
- P 862 South Cape Armitage, Antarctica. 33m SCUBA. December 13, 1974. Coll. J. Rude.
- P 873 Cape Armitage, Antarctica. 21m SCUBA. December 6, 1967. Coll. Robilliard & Dayton. Det. V.M. Koltun.
- P 885 Cape Armitage, Antarctica. 30m SCUBA. October 23, 1974. Coll. J. Rude. Det. J. Rude.

*Tetilla mutabilis*

- P 211 Atlantis Cove, Mission Bay, San Diego, California.

*Tetilla mutabilis* de Laubenfels  
P 236 San Diego, California. 3m Trawl. February 19,  
1909.

## SCLERITODERMIDAE

*Aciculites orientalis* Dendy 1905  
P 1135 Antolanf, Saiton Negros oriental, Philippine  
Islands. Det. Van Soest.

## VERONGIDA

### APLYSINIDAE

*Verongia (Aplysina) thiona*  
P 148 Bird Rock, La Jolla, California. Low tide.  
Ledges. April 30, 1966.  
P 149 SouthEast end of North Island, Islas  
Coronados, Baja California Norte, Mexico.  
30m July 1, 1965.

### DRUINELLIDAE

*Druinella purpurea* (Carter)  
P 1122 West side of Ave Mamia Rocks (between  
Praslin & La Digue), Seychelles. 15m Coll.  
Steve Bobzin. Det. M.K. Harper.  
P 1132 Fiji. Det. M.K. Harper.  
P 1133 Ave Mana Rocks, Between Praslin & La  
Digue Island, Saychelles. 13m Det. Rob Van  
Soest.

*Pseudoceratina crassa* (Hyatt)  
P 1121 Albert Town drop-off, French Wells, Bahamas.  
Coll. Barbara Potts. Det. Van Soest.

## CALCAREA

## CLATHRINIDA

### CLATHRINIDAE

*Clathrina blanca* (Miklucho-Maclay)  
P 1050 S-14. Catalina Island, California. 5-20m  
December 10, 1979. Coll. J.A. Haugsness.

*Clathrina coriacea* (Montagu)  
P 1047 S-11. Santa Cruz Island, California. 5-20m June  
25, 1979. Coll. J.A. Haugsness.

## LEUCETTIDAE

*Leucetta* sp.  
P 798 Cape Armitage, Antarctica. 43m SCUBA.  
September 10, 1975. Coll. J. Rude.

*Leucetta leptoraphis*  
P 799 Cape Armitage, Antarctica. 27m SCUBA.  
September 12, 1975. Coll. J. Rude.  
P 800 Cape Armitage, Antarctica. 33m SCUBA.  
October 9, 1975. Coll. J. Rude.  
P 841 Cape Armitage, Antarctica. 33m SCUBA.  
December 4, 1967. Coll. Robilliard & Dayton.  
Det. V.M. Koltun.  
P 902 Cape Armitage, Antarctica. 28m SCUBA.  
September 26, 1974. Coll. J. Rude. Det. J. Rude.  
P 1061 McMurdo Sound, Antarctica. Det. V.M. Koltun.

*Leucetta losangelensis* deLubenfels  
P 334 New Hope Rock 1 km. North of Coast Guard  
lighthouse, Point Loma, California. 7-33m  
September 8, 1965.  
P 1049 S-13. Santa Cruz Island, California. 5-20m June  
19, 1979. Coll. R. Osman.

*Leucetta microrhaphis*  
P 1120 Mutok Harbor, Phonpei. 16m Coll. S. Bobzin.  
Det. Van Soest.

## LEUCOSELENIIDA

### GRANTIIDAE

*Leucandra heathi* Urban  
P 1000 San Mateo Kelp Beds, San Clemente,  
California. June 1973.  
P 1004 San Onofre, California. October 3, 1973.  
P 1044 S-8. San Onofre, California. 5-20m On plate.  
November 15, 1978. Coll. J.A. Haugsness.

*Leucandra nuttingi* (Urban)  
P 999 Point Conception, California. 10m On abalone  
shell. December 16, 1974.

### LEUCOSELENIIDAE

*Leucosolenia* sp.  
P 1043 S-7. San Onofre, California. 5-20m November  
15, 1978. Coll. J.A. Haugsness.

*Leucosolenia macleayi*  
P 269 La Jolla Caves, La Jolla, California. 8m.  
September 2, 1964.

## SYCETTIDAE

*Scypha* sp.

- P 1045 S-9. San Onofre, California. 5-20m November 15, 1978. Coll. J.A. Haugsness  
 P 1046 S-10. Catalina Island, California. 5-20m December 17, 1979. Coll. J.A. Haugsness.

## HEXACTINELLIDA

- P 1301 ALVIN Dive No. 1179. Seamount B Thermal Vents. 20°48'N 109°17'W 1993m Submersible Alvin. On/buried itself in hard glass sponge hard glass (P 1095%). January 30, 1982 0846-1516. Coll. P. Lonsdale, L. Levin.

## AMPHIDISCOSIDA

## HYALONEMATIDAE

*Hyalonema* sp.

- P 251 San Diego Trough, San Diego, California. 2000m.

## LYSSACINOSIDA

## ROSSELLIDAE

*Rossella nuda*

- P 805 Cape Armitage, Antarctica. 30m SCUBA. September 14, 1975. Coll. J. Rude.  
 P 806 Cape Armitage, Antarctica. 36m SCUBA. September 18, 1975. Coll. J. Rude.  
 P 807 Cape Armitage, Antarctica. 40m SCUBA. October 7, 1975. Coll. J. Rude.  
 P 896 Hut Point, Antarctica. 35m SCUBA. November 1, 1968.  
 P 1037 Cape Armitage, Antarctica. 33m SCUBA. September 13, 1974. Coll. J. Rude. Det. J. Rude.

*Rossella racovitzae* Topsent

- P 801 Cape Armitage, Antarctica. 36m SCUBA. September 10, 1975. Coll. J. Rude.  
 P 802 Cape Armitage, Antarctica. 27m SCUBA. September 29, 1975. Coll. J. Rude.  
 P 803 Cape Armitage, Antarctica. 33m SCUBA. October 9, 1975. Coll. J. Rude.

- P 804 Cape Armitage, Antarctica. 28m SCUBA. September 16, 1975. Coll. J. Rude.  
 P 808 Cape Armitage, Antarctica. 33m SCUBA. October 4, 1975. Coll. J. Rude.  
 P 865 New Harbor, Antarctica. 47m SCUBA. October 9, 1974. Coll. Dayton.  
 P 892 Cape Armitage, Antarctica. 23m SCUBA. December 13, 1974. Coll. J. Rude. Det. J. Rude.  
 P 900 New Harbor, Antarctica. 47m SCUBA. October 29, 1974. Coll. P. Dayton.

*Scolymastra joubini*

- P 859 Hut Point, Antarctica. 35m Coll. P. Dayton. Det. V.M Koltun.  
 P 861 McMurdo Sound, Antarctica. November 18, 1968.

## PORIFERA

## Incertae Sedis

- P 151 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.  
 P 152 ECCE PA-9. West 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.  
 P 153 ECCE PA-18. Pta. Abreojos, Baja Calif. Sur, Mexico. 26°43.5'N 113°35.5'W Rocky high intertidal. July 27, 1975 0830-0930. Coll. S. Luke.  
 P 154 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.  
 P 155 ECCE MEPA-16A. Estero de Pta. Abreojos, Baja California Sur, Mexico. 26°47.5'N 113°56.5'W Intertidal. July 26, 1975. Coll. S. Luke.  
 P 156 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.  
 P 157 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.  
 P 158 Philippine Islands. 20m SCUBA. 1975. Coll. Charles Wright.  
 P 159 ECCE SR-34. Punta Santa Rosalia, Santa Rosalillita, Baja Calif. Norte, Mexico. 28°40'N 114°14'W High mid intertidal. August 6, 1975. Coll. S. Luke.  
 P 160 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.

- P 161 ECCE. Pta. Pequena, Baja Calif. Sur, Mexico. 26°14'N 112°28.5'W Rocky intertidal. July 20, 1975. Coll. S. Luke.
- P 162 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.
- P 163 Shepard No. 69. 40 Mile Bank off San Diego, California. 32N 117°56.2'W 183m Dredge. June 10, 1938 "E.W. Scripps".
- P 164 Sea Breeze SB 51. Tombola at SouthW. 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.
- P 165 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.
- P 166 40 Mile Bank, San Diego, California. 32°43'N 118°12'W 110m Dredge. March 22, 1938 "E.W. Scripps". Coll. F.P. Shepard.
- P 167 Sea Breeze SB-39. Beach 5 mi. N of Guaymas, Sonora, Mexico. 27°55'N 111W Intertidal. April 10-11, 1960 R/V Orca. Coll. A. Flechsig.
- P 168 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.
- P 169 H51-32. North 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.
- P 170 6411B-25. 9 km. W.SouthWest 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.
- P 171 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.
- P 172 H53-21. Off East side of San Clemente Island, California. 32°58.3'N 118°21.5'W 466m Isaacs-Kidd dredge. April 28, 1953. Coll. Lewis Kidd.
- P 173 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.
- P 174 6108B-82. Bahia Magdalena, Baja Calif. Sur, Mexico. 24°34'N 112°3.1'W 31m 16' otter trawl. August 28, 1961 1820-1835. Coll. H. DeWitt.
- P 175 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.
- P 176 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.
- P 177 No. 202. Monterey Bay, California. 36°41'N 122°0.8'W Dredge haul. September 9, 1938. Coll. F.P. Shepard.
- P 178 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.
- P 179 RR65-38. West side of Isla Monserrate, Baja Calif. Sur, Mexico. 25°39'N 111°4.7'W 40' otter trawl. July 11, 1965. Coll. R. Rosenblatt.
- P 180 RR65-96. SouthEast 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.
- P 181 RR65-86. Isla Santa Catalina, Baja Calif., Sur, Mexico. 25°42'N 110°50'W 0-5m Chemfish. July 21 1965. Coll. L. Findley.
- P 182 RR65-31. Off Punta San Telmo, Baja Calif. Sur, Mexico. 25°18'N 110°57'W 10' otter trawl. July 10, 1965. Coll. W. Baldwin.
- P 183 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.
- P 184 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.
- P 185 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.
- P 186 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.
- P 187 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.
- P 188 STYX-7 MPE68093 Sta. 1. Hamilton Guyot. 18°27'N 179°31'W 1436-1672m 25' otter trawl. September 3, 1968 1945-0145. R/V Agassiz. Coll. W. Newman.
- P 189 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.
- P 190 STYX-7 MPE68097 Sta. 4. Agassiz Guyot. 18N 178°15'E 1582-1617m 5'sigsbee trawl #3. September 7, 1968 2030-0030. R/V Agassiz. Coll. W. Newman.
- P 191 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.
- P 192 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.

- P 193 Carmarsel CRS-302. Off fantail at anchorage of ship West of Ulul Island, Namonuito Atoll, Caroline Is. 23-8m SCUBA. February 12, 1967 1050-1117. R/V Horizon. Coll. W. Newman, J. Stewart.
- P 194 Carmarsel CRS-303. West of Ulul Island, Namonuito Atoll, Caroline Is. 0-21m SCUBA. February 12, 1967 1440-1520. R/V Horizon. Coll. W. Newman, J. Stewart.
- P 195 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.
- P 196 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.
- P 197 R/V Prospector. San Diego, California. 1869m R/V Prospector.
- P 199 Saucer Dive #345. Due West of Bird Rock, La Jolla, California. 110-200m Diving saucer. April 17, 1965. Coll. R. Ford.
- P 200 RR61. Cabo San Lucas, Baja Calif. Sur, Mexico. 1-3m SCUBA. June 13, 1961. Coll. D. Leighton.
- P 201 Holdfast #1. La Jolla Cove kelp beds, La Jolla, California. 12m *Macrocystis pyrifera*. October 10, 1957. Coll. R. Gerhlaridi.
- P 202 La Jolla Beach, La Jolla, California. February 3, 1966.
- P 203 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.
- P 204 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.
- P 205 Haul 3181. Off San Diego, California. 32°28.5'N 117°15.3'W 55m Green mud. February 10, 1912 1440-1500. Coll. Agassiz.
- P 206 Pacific-Mex. Exped. Near Islas Tres Marias, Nayarit, Mexico. 21°24.5'N 106°23.8'W 120m Sled dredge. May 4, 1978 1500-1505. R/V Alpha Helix. Coll. J. Lance.
- P 207 Near rim of Scripps Submarine Canyon, La Jolla, California. 6-11m Grappling hook. Caught rope on bottom. March 8, 1979. Coll. S. Luke.
- P 208 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.
- P 209 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.
- P 212 Ballast Point, Point Loma, San Diego, California. 18m July 10, 1906.
- P 213 Point Loma Kelp Beds, San Diego, California. 13m June 22, 1960. Coll. J. Jordan.
- P 214 Point Loma Kelp Beds, San Diego, California. 13m June 22, 1960. Coll. J. Jordan.
- P 215 La Jolla Kelp Beds, La Jolla, California. 17m April 2, 1959. Coll. D. Dietrich.
- P 216 La Jolla Cove, La Jolla, California. 7m. April 15, 1959.
- P 217 North of Dana Landing, Mision Bay, San Diego, California. Dredge. October 23, 1959. Coll. C. Tuthill.
- P 218 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.
- P 219 La Jolla Kelp Beds, La Jolla, California. 17m February 24, 1959. Coll. D. Dietrich.
- P 222 SIOM59-30-1. La Jolla Kelp Beds, La Jolla, California. 17m February 24, 1959. Coll. J. Jordan, D. Dietrich.
- P 223 SIOM59-37-3. La Jolla Kelp Beds, La Jolla, California. 17m April 2, 1959. Coll. J. Jordan, D. Dietrich.
- P 224 Off China Point, San Clemente Is, California. 32°23'N 118°5'W 16m July 17, 1908.
- P 225 False Bay, San Diego, California. June 30, 1915.
- P 226 Haul 1780. 300 m. West of San Clemente Island, California. 32°54'N 118°26'W 33m Trawl. July 1, 1909.
- P 227 Haul 1531. 32°46.5'N 118°20.5'W 505m Black mud. July 7, 1908 0730-0840.
- P 228 Haul 1631. Isla Cedros, Baja California Norte, Mexico. 33m Trawl. September 1, 1908.
- P 229 Haul 1782. 32°48.1'N 118°19.7'W 120m July 1, 1909 1534-1545.
- P 230 Mission Bay, San Diego, California. Seine. January 14, 1960. Coll. C. Tuthill.
- P 231 Monsoon. West side of Howland Island, Phoenix Is. 0°48'N 176°38'W Intertidal in beach drift. September 24, 2960. Coll. Rowland.
- P 232 21 Stipe Holdfast. Bahia Tortugas, Baja California Sur, Mexico. November 20, 1959.
- P 233 MV65-III-14. Basin N. West 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.
- P 234 MV65-IV-85. ca. 30 km. off Valpariso Harbor, Chile. 275m Bought from shrimp trawler. December 22 & 23, 1965. Coll. A. Chapman.
- P 235 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.
- P 237 Monsoon Exped. (P-231-60). Green Island, off Cairns, Queensland, Australia. 16°46'S 145°58'E 5m Skin diving. October 7, 1960. Coll. Rowland.
- P 238 SIOM59-31-1. North of Scripps Inst. Pier, La Jolla, California. Low tide -.1. March 5, 1959. Coll. D. Deitrich.
- P 239 Dillons Beach, Bodega Bay, California. March 1921. Coll. M. Johnson.

- P 240 La Jolla Kelp Beds, La Jolla, California. 17m April 2, 1959. Coll. D. Dietrich, J. Jordan.
- P 241 Haul 1047. 7 km. N.N.West of La Jolla, California. 183m July 28, 1905.
- P 242 Point Barrow Alaska. 13-40m SCUBA. August 3-8, 1958.
- P 244 B-6203. Catalina Island, California. 238m Otter trawl. March 22, 1962.
- P 245 Monsoon Exped. Sta. VI-6 75-D. East of New Zealand. 43°28'S 178E 161m Rock dredge. January 31, 1961. Coll. Russell & Menard.
- P 246 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.
- P 247 El Golfo II 50-6. Isla Altamura, Sinaloa, Mexico. 24°43'N 108°10.4'W 34m 20' otter trawl. May 26, 1965 1836-1910. R/V Agassiz. Coll. T. Matsui.
- P 248 1.5 km. North of La Jolla, California. 30m SCUBA. At edge of kelp bed. Rocks & sand. November 23, 1951. Coll. C. Limbaugh.
- P 249 SIO63-180. East of South Point, Isla Guadalupe, Baja California Norte, Mexico. 274m Hagfish trap. April 24, 1963 R/V Horizon. Coll. A. Stover.
- P 250 B6411-2 TR #111. 2 km. South of Peninsula between Pta. Marquis & Pta. Lobos, Baja California Sur. 23°33'N 110°23'W 38m 126' otter trawl. November 9, 1964 R/V Black Douglas. Coll. B. Zahuranec.
- P 252 Whalers Cove, Point Lobos, Carmel, California. 7m. May 6, 1966.
- P 253 Whalers Cove, Point Lobos, Carmel, California. 7m. May 6, 1966.
- P 254 South Monterey, California. Intertidal. March 1966.
- P 255 South Monterey, California. Intertidal. March 1966.
- P 256 South side of Santa Cruz Island, California. 8m. From rock face. June 14, 1967. Coll. T.B. Scanland.
- P 257 W. end of Santa Cruz Island, California. Intertidal sea cave. June 16, 1967. Coll. T.B. Scanland.
- P 258 DFH66-28. Duxbury Reef, Bolinas Bay, Bolinas, California. Hand collection & nets. Rocky intertidal. May 7, 1966. Coll. W. Newman & class.
- P 259 DFH66-28. Duxbury Reef, Bolinas Bay, Bolinas, California. Hand collection & nets. Rocky intertidal. May 7, 1966. Coll. W. Newman & class.
- P 260 DFH66-28. Duxbury Reef, Bolinas Bay, Bolinas, California. Hand collection & nets. Rocky intertidal. May 7, 1966. Coll. W. Newman & class.
- P 261 Power station, San Onofre, California. 15m Third bouy. August 19, 1965.
- P 262 Power station, San Onofre, California. 15m Third bouy. August 19, 1965.
- P 263 San Onofre, California. 5-7m. On rocks. March 10, 1965.
- P 264 Sumner Canyon, La Jolla, California. 33-67m September 8, 1964.
- P 265 East wall of Sumner Canyon, La Jolla, California. 33-67m September 8, 1964.
- P 266 Railroad wheels in Sumner Canyon, La Jolla, California. 37m September 3, 1965.
- P 267 Sumner Canyon, La Jolla, California. 40m Growth on *Hinnites*. June 15, 1964. Coll. T. Scanland.
- P 268 Sumner Canyon, La Jolla, California. 40m Growth on *Hinnites*. June 15, 1964. Coll. T. Scanland.
- P 270 La Jolla Caves, La Jolla, California. 8m. September 2, 1964.
- P 271 Cod Hole, South side of La Jolla Canyon, La Jolla Shores, La Jolla, California. 37m June 30, 1965.
- P 272 Cod Hole, South side of La Jolla Canyon, La Jolla Shores, La Jolla, California. 37m June 30, 1965.
- P 273 Cod Hole, South side of La Jolla Canyon, La Jolla Shores, La Jolla, California. 37m June 30, 1965.
- P 274 Cod Hole, South side of La Jolla Canyon, La Jolla Shores, La Jolla, California. 37m June 30, 1965.
- P 275 Cod Hole, South side of La Jolla Canyon, La Jolla Shores, La Jolla, California. 40m August 31, 1965.
- P 276 Cod Hole, South side of La Jolla Canyon, La Jolla Shores, La Jolla, California. 40m August 31, 1965.
- P 278 Cod Hole, South side of La Jolla Canyon, La Jolla Shores, La Jolla, California. 37m June 30, 1965.
- P 280 Sumner Canyon, La Jolla, California. 37m August 6, 1965.
- P 281 Railroad wheels, W. wall, N. branch of Sumner Canyon, La Jolla, California. 38m September 3, 1965.
- P 283 Railroad wheels, W. wall, N. branch of Sumner Canyon, La Jolla, California. 38m September 3, 1965.
- P 284 Barn Kelp Bed, 3 km. South of San Onofre Power Plant, San Onofre, California. 15m August 19, 1965.
- P 285 Barn Kelp Bed, 3 km. South of San Onofre Power Plant, San Onofre, California. 15m August 19, 1965.
- P 286 Barn Kelp Bed, 3 km. South of San Onofre Power Plant, San Onofre, California. 15m August 19, 1965.
- P 287 Quast Rock, 2 km. W.N.West of Point La Jolla, La Jolla, California. 20m May 1, 1965.
- P 288 Quast Rock, 2 km. W.N.West of Point La Jolla, La Jolla, California. 20m May 1, 1965.
- P 289 Quast Rock, 2 km. W.N.West of Point La Jolla, La Jolla, California. 20m May 1, 1965.
- P 290 Quast Rock, 2 km. W.N.West of Point La Jolla, La Jolla, California. 23m May 5, 1965.



- P 291 Hopkins Bridge, 17 m. West of Quast Rock, Point La Jolla, California. 25m August 10, 1965.
- P 292 Quast Rock, 2 km. W.N.West of Point La Jolla, La Jolla, California. May 5, 1965.
- P 293 Quast Rock, 2 km. W.N.West of Point La Jolla, La Jolla, California. 25m April 19, 1966.
- P 294 Quast Rock, 2 km. W.N.West of Point La Jolla, La Jolla, California. 25m April 19, 1966.
- P 296 Quast Rock, 2 km. W.N.West of Point La Jolla, La Jolla, California. 25m February 5, 1968.
- P 299 Hopkins Bridge, 17 m. West of Quast Rock, Point La Jolla, California. 28m September 2, 1964.
- P 300 Hopkins Bridge, 17 m. West of Quast Rock, Point La Jolla, California. 28m September 2, 1964.
- P 301 Hopkins Bridge, 17 m. West of Quast Rock, Point La Jolla, California. 28m September 2, 1964.
- P 302 Hopkins Bridge, 17 m. West of Quast Rock, Point La Jolla, California. 28m September 2, 1964.
- P 303 Hopkins Bridge, 17 m. West of Quast Rock, Point La Jolla, California. 28m September 2, 1964.
- P 304 Hopkins Bridge, 17 m. West of Quast Rock, Point La Jolla, California. 28m September 2, 1964.
- P 305 Hopkins Bridge, 17 m. West of Quast Rock, Point La Jolla, California. 28m September 2, 1964.
- P 306 Hopkins Bridge, 17 m. West of Quast Rock, Point La Jolla, California. 25m August 10, 1965.
- P 307 Hopkins Bridge, 17 m. West of Quast Rock, Point La Jolla, California. 25m August 10, 1965.
- P 308 1 km. off South Casa Beach, La Jolla, California. 11m August 6, 1965.
- P 309 1 km. off South Casa Beach, La Jolla, California. 11m August 6, 1965.
- P 310 Nicklin's Reef, 1 km. West of Marine St., La Jolla, California. 30-33m April 21, 1964.
- P 311 Nicklin's Reef, 1 km. West of Marine St., La Jolla, California. 30-33m April 21, 1964.
- P 312 Nicklin's Reef, 1 km. West of Marine St., La Jolla, California. 30-33m April 21, 1964.
- P 313 N. Bird Rock, La Jolla, California. Low tide. Ledges. April 30, 1966.
- P 314 N. Bird Rock, La Jolla, California. Low tide. Ledges. April 30, 1966.
- P 315 N. Bird Rock, La Jolla, California. Low tide. Ledges. April 30, 1966.
- P 316 N. Bird Rock, La Jolla, California. Low tide. Ledges. April 30, 1966.
- P 317 N. Bird Rock, La Jolla, California. Low tide. Ledges. April 30, 1966.
- P 318 N. Bird Rock, La Jolla, California. Low tide. Ledges. April 30, 1966.
- P 319 N. Bird Rock, La Jolla, California. Low tide. Ledges. April 30, 1966.
- P 320 Floating docks, Mission Bay, San Diego, California. February 26, 1965.
- P 321 Floating docks, Mission Bay, San Diego, California. February 26, 1965.
- P 322 Floating docks, Mission Bay, San Diego, California. February 27, 1965.
- P 323 Floating docks, Mission Bay, San Diego, California. February 27, 1965.
- P 324 Floating docks, Mission Bay, San Diego, California. February 27, 1965.
- P 325 Floating docks, Mission Bay, San Diego, California. February 27, 1965.
- P 326 Floating docks, Mission Bay, San Diego, California. February 27, 1965.
- P 327 Washed up in San Diego Bay, San Diego, California. April 16, 1964.
- P 329 Cal Western Reef, Point Loma, San Diego, California. 27m From large sponge washed up. September 8, 1965.
- P 330 Cal Western Reef, Point Loma, California. 27m September 8, 1965.
- P 331 Cal Western Reef, Point Loma, California. 27m September 8, 1965.
- P 332 Cal Western Reef, Point Loma, California. 30m October 28, 1965.
- P 333 Loma Sea Cliff, near Cal Western Reef, Point Loma, California. 27-33m October 28, 1965.
- P 335 New Hope Rock 1 km. North of Coast Guard lighthouse, Point Loma, California. 7-33m September 8, 1965.
- P 336 New Hope Rock 1 km. North of Coast Guard lighthouse, Point Loma, California. 10-13m August 13, 1965.
- P 337 New Hope Rock 1 km. North of Coast Guard lighthouse, Point Loma, California. 10-13m August 13, 1965.
- P 338 New Hope Rock 1 km. North of Coast Guard lighthouse, Point Loma, California. 10-13m August 13, 1965.
- P 340 New Hope Rock 1 km. North of Coast Guard lighthouse, Point Loma, California. 10-13m August 13, 1965.
- P 341 New Hope Rock 1 km. North of Coast Guard lighthouse, Point Loma, California. 10-13m August 13, 1965.
- P 342 New Hope Rock 1 km. North of Coast Guard lighthouse, Point Loma, California. 10-13m August 13, 1965.
- P 343 Flood Control Channel, Mission Bay, San Diego, California. 1m. August 9, 1965.
- P 344 Floating docks, Mission Bay, San Diego, California. February 27, 1965.
- P 345 Coronado Island, Baja California Norte, Mexico. 3m. April 27, 1965.
- P 346 SouthEast end of N. Coronado Island, Baja California Norte, Mexico. July 1, 1965.
- P 347 SouthEast end of N. Coronado Island, Baja California Norte, Mexico. August 2, 1965.
- P 348 SouthEast end of N. Coronado Island, Baja California Norte, Mexico. August 2, 1965.
- P 349 SouthEast end of N. Coronado Island, Baja California Norte, Mexico. August 2, 1965.

- P 350 Cove South of La Bufadora, Punta Banda, Ensenada, Baja California Norte, Mexico. Tidepool. August 18, 1965.
- P 351 Cove South of La Bufadora, Punta Banda, Ensenada, Baja California Norte, Mexico. 10m August 18, 1965.
- P 352 Cove South of La Bufadora, Punta Banda, Ensenada, Baja California Norte, Mexico. 10m August 18, 1965.
- P 353 Isla Cedros, Baja California Norte, Mexico. 16m June 25, 1965.
- P 354 Isla Cedros, Baja California Norte, Mexico. 16m June 25, 1965.
- P 355 Isla Cedros, Baja California Norte, Mexico. 16m June 25, 1965.
- P 356 South end of Bahia Almejas, Baja California Sur, Mexico. 1m. June 14, 1965.
- P 357 South end of Bahia Almejas, Baja California Sur, Mexico. 1m. June 14, 1965.
- P 358 South end of Bahia Almejas, Baja California Sur, Mexico. 1m. June 14, 1965.
- P 359 Bacanyon Cruise Sta. #19. Los Frailes, Baja California Sur, Mexico. 23°18'N 109°23'W 988-732m February 2, 1962.
- P 360 Northern Holiday Expedition. Miller Seamount. Dredge.
- P 361 6212B-16. Bahia Magdalena, Baja Calif. Sur, Mexico. 24°37'N 111°59'W 23m 16' otter trawl TR-72. December 5, 1962 1938-2008. Coll. F.H. Berry.
- P 362 H52-42. N. end of Anacapa Island, California. 34°7'N 119°28'W 223-242m 5' scoop dredge. April 3, 1952 M/V Horizon. Coll. C. Hubbs.
- P 363 Recorder Expedition RED-76. Balabac Strait, N.West of Borneo, 7 km. W.SouthWest of Comiran Is. 7°54'N 117°9'E 146-163m Pipe dredge RED-76. Rocky. September 3, 1961.
- P 364 RR65-50 & 51. Bahia Santa Inez, Baja Calif. Sur, Mexico. 26°59'N 111°56'W 40-82m 40' otter trawl. July 14, 1965. Coll. C. Hubbs.
- P 365 SIO63-17. San Diego Trough. 32°24'N 117°30'W 732-1280m 10' IKMT. February 8, 1963. Coll. R. Wisner.
- P 366 Recorder Expedition RED-67. Basilan Strait (South of Mindanao). 6°50'N 122°5'E 108-112m Rock dredge. August 31, 1961.
- P 367 MV65-I-57. SouthWest 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.
- P 368 South wall of main branch of La Jolla Canyon, La Jolla, California. 92m Hok & line. August 23, 1967. Coll. A. Flechsig.
- P 369 MV65-I-67. Canal de Cerralbo, on West 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.
- P 370 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.
- P 371 16 m. East of Hopkins Bridge, off Point La Jolla, La Jolla, California. 28m September 2, 1964.
- P 372 Redondo Canyon, Redondo, California. June 6, 1938 R/V E.W. Scripps. Coll. W.P. Shepard.
- P 373 Scripps Inst. of Ocean., La Jolla, California. From aquarium lines. May 24, 1965.
- P 374 Top of Coronado Bank, due W.of Silver Strand, Coronado, California. 165m Boyd dredge. January 21, 1965 ST-908. Coll. Fager.
- P 375 Sumner branch, Scripps Canyon, La Jolla, California. 33-43m SCUBA. Vertical rock face. March 31, 1964. Coll. Dick Ford.
- P 376 Off Point La Jolla, La Jolla, California. 17m August 11, 1941.
- P 377 NAGA 60 0895. Gulf of Thailand. 10°12.75'N 103°32.5'E 26m 6' beam trawl. November 13, 1960.
- P 378 NAGA 60 1062. Gulf of Thailand. 11°20.75'N 100°14.75'E 46m 16' otter trawl. December 11, 1960.
- P 379 NAGA 60 0325. Gulf of Thailand. 6°24.15'N 102°13'E 27m 6' beam trawl. April 24, 1960.
- P 380 NAGA 60 0211. South China Sea. 15°41'N 108°41'E 37m 10' beam trawl. February 27, 1960.
- P 381 NAGA S4 60-0219. South China Sea. 15°39'N 111°51'E 1264-1234m 10' beam trawl. Sand & mud. February 29, 1960 0200-0245. ''''.
- P 382 NAGA 60 0136. Gulf of Thailand. 8°25.5'N 100°45.7'E Dip net. Surface. January 26, 1960 0800.
- P 383 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.
- P 384 NAGA Sta. 20. South China Sea.
- P 385 NAGA 60 0895. Gulf of Thailand. 10°12.75'N 103°32.5'E 26m 6' beam trawl. November 13, 1960.
- P 386 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.
- P 387 NAGA 60 0270. South China Sea. 10°23.8'N 108°53.2'E 49m 2' dredge. March 10, 1960.
- P 388 NAGA 60 0546. Nhatrang. 4°45'N 106°8'E 82m 6' beam trawl. June 22, 1960.
- P 389 NAGA 60 0140. Gulf of Thailand. 9°7'N 100°47.75'E 33m 6' beam trawl. January 26, 1960.
- P 390 NAGA 61-0251.
- P 391 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.
- P 392 NAGA 61 0220. Timor Sea. 11°50'S 124°48.7'E 150m Shell dredge. April 10, 1961.
- P 393 NAGA 60 0833. Nhatrang Bay. 6°14.75'N 105°47.15'E 49m 6' beam trawl. October 5, 1960.
- P 394 NAGA 60 1097. Gulf of Thailand. 12°39.3'N 100°15.75'E 29m 16' otter trawl. December 13, 1960.

- P 395 NAGA 60 0216. South China Sea. 15°40'N 109°43.5'E 479m 10' beam trawl. February 28, 1960.
- P 396 NAGA 59 0052. Gulf of Thailand. 8°40'N 102°18.5'E 70m 40' ott. Trawl. October 24, 1959 1045.
- P 397 La Paz, Baja California Sur, Mexico. March 30, 1959. Coll. Lemche.
- P 398 NAGA 60 0895. Gulf of Thailand. 10°12.75'N 103°32.5'E 26m 6' beam trawl. November 13, 1960.
- P 399 NAGA 60 0127. Gulf of Thailand. 8°37'N 102°21.5'E 73m 40' otter trawl. January 24, 1960.
- P 400 NAGA 60 0110. Gulf of Thailand. 6°22.25'N 102°14'E 27m 6' beam trawl. January 22, 1960.
- P 401 NAGA 60 0634. Gulf of Thailand. 9°59'N 101°52.75'E 70m 1 m. Net tow. August 7, 1960.
- P 402 NAGA 61 0253. Timor Sea. 10°15.9'S 128°44.3'E 56m Shell dredge. April 20, 1961.
- P 403 NAGA 60-0029. South China Sea.
- P 404 NAGA 61 0252. Timor Sea. 10°25.3'S 128°28'E 77m Shell dredge. April 20, 1961.
- P 405 NAGA 60 0208. South China Sea. 12°14.7'N 109°18.4'E 28m 10' beam trawl. February 25, 1960.
- P 406 NAGA 60 1077. Gulf of Thailand. 12°21.25'N 101°31.75'E 31m 16' otter trawl. December 12, 1960.
- P 407 NAGA 60 0845. Gulf of Thailand. 12°54.5'N 100°26.5'E 20m 6' beam trawl. November 9, 1960.
- P 409 NAGA 61-0185. South China Sea.
- P 410 NAGA 61-0129. South China Sea.
- P 411 NAGA Sta. 7. South China Sea.
- P 412 NAGA 59 0052. Gulf of Thailand. 8°40'N 102°18.5'E 70m 40' ott. Trawl. October 24, 1959 1045.
- P 413 NAGA 60 0140. Gulf of Thailand. 9°7'N 100°47.75'E 33m 6' beam trawl. January 26, 1960.
- P 414 NAGA 60-0144. South China Sea.
- P 415 NAGA 60 0110. Gulf of Thailand. 6°22.25'N 102°14'E 27m 6' beam trawl. January 22, 1960.
- P 416 INVALID ACC. NO.
- P 417 NAGA 60 0325. Gulf of Thailand. 6°24.15'N 102°13'E 27m 6' beam trawl. April 24, 1960.
- P 418 NAGA 60 0863. Gulf of Thailand. 9°23.5'N 101°15.15'E 55m 6' beam trawl. November 11, 1960.
- P 419 NAGA 60 0845. Gulf of Thailand. 12°54.5'N 100°26.5'E 20m 6' beam trawl. November 9, 1960.
- P 420 NAGA 60 0845. Gulf of Thailand. 12°54.5'N 100°26.5'E 20m 6' beam trawl. November 9, 1960.
- P 421 NAGA 60 0895. Gulf of Thailand. 10°12.75'N 103°32.5'E 26m 6' beam trawl. November 13, 1960.
- P 422 NAGA 61 0213. Timor Sea. 13°21.5'S 127°1.3'E 270m Shell dredge (no BT). April 8, 1961.
- P 423 NAGA 61 0209. Timor Sea. 12°15'S 129°13.5'E 31m Shell dredge. April 6, 1961.
- P 424 NAGA 61 0226. Timor Sea. 11°0'S 125°33.8'E 342m Chain dredge. April 12, 1961.
- P 425 NAGA 61 0249. Timor Sea. 10°54.75'S 128°49.75'E 34-82m Chain bag dredge. April 19, 1961.
- P 426 NAGA 61 0246. Timor Sea. 10°56.3'S 129°25.9'E 71m Shell dredge. April 19, 1961.
- P 427 NAGA 61 0253. Timor Sea. 10°15.9'S 128°44.3'E 56m Shell dredge. April 20, 1961.
- P 428 NAGA 61 0253. Timor Sea. 10°15.9'S 128°44.3'E 56m Shell dredge. April 20, 1961.
- P 429 NAGA 61 0253. Timor Sea. 10°15.9'S 128°44.3'E 56m Shell dredge. April 20, 1961.
- P 430 NAGA 61 0253. Timor Sea. 10°15.9'S 128°44.3'E 56m Shell dredge. April 20, 1961.
- P 431 NAGA 61 0253. Timor Sea. 10°15.9'S 128°44.3'E 56m Shell dredge. April 20, 1961.
- P 432 NAGA 61 0253. Timor Sea. 10°15.9'S 128°44.3'E 56m Shell dredge. April 20, 1961.
- P 433 NAGA 61 0253. Timor Sea. 10°15.9'S 128°44.3'E 56m Shell dredge. April 20, 1961.
- P 434 NAGA 61 0210. Timor Sea. 12°15'S 129°13.5'E 31m DIP. April 6, 1961.
- P 435 NAGA 60 0833. Nhatrang Bay. 6°14.75'N 105°47.15'E 49m 6' beam trawl. October 5, 1960.
- P 436 NAGA 61 0253. Timor Sea. 10°15.9'S 128°44.3'E 56m Shell dredge. April 20, 1961.
- P 437 NAGA 60 0325. Gulf of Thailand. 6°24.15'N 102°13'E 27m 6' beam trawl. April 24, 1960.
- P 438 NAGA 60 0175. Gulf of Thailand. 12°4.5'N 100°46'E 27m 6' beam trawl. January 30, 1960.
- P 439 NAGA 60 0151. Gulf of Thailand. 10°41.25'N 103°3'E 26m 6' beam trawl. January 27, 1960.
- P 440 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.
- P 441 NAGA 60 0833. Nhatrang Bay. 6°14.75'N 105°47.15'E 49m 6' beam trawl. October 5, 1960.
- P 442 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.
- P 443 NAGA 60 0895. Gulf of Thailand. 10°12.75'N 103°32.5'E 26m 6' beam trawl. November 13, 1960.
- P 444 NAGA 60 0110. Gulf of Thailand. 6°22.25'N 102°14'E 27m 6' beam trawl. January 22, 1960.
- P 445 NAGA 60 0102. Gulf of Thailand. 12°33'N 100°44'E 27m 6' beam trawl. January 19, 1960.
- P 446 NAGA 60 0175. Gulf of Thailand. 12°4.5'N 100°46'E 27m 6' beam trawl. January 30, 1960.
- P 447 NAGA S 61-0234. South China Sea.
- P 448 NAGA 60-1056. South China Sea.
- P 449 NAGA 60 1062. Gulf of Thailand. 11°20.75'N 100°14.75'E 46m 16' otter trawl. December 11, 1960.

- P 450 NAGA 60 0136. Gulf of Thailand. 8°25.5'N 100°45.7'E Dip net. Surface. January 26, 1960 0800.
- P 451 NAGA 61 0113. Gulf of Thailand. 10°0'N 103°50.25'E 18m 16' otter trawl. February 10, 1961.
- P 452 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.
- P 453 NAGA 61 0246. Timor Sea. 10°56.3'S 129°25.9'E 71m Shell dredge. April 19, 1961.
- P 454 NAGA 61 0246. Timor Sea. 10°56.3'S 129°25.9'E 71m Shell dredge. April 19, 1961.
- P 455 NAGA 61 0246. Timor Sea. 10°56.3'S 129°25.9'E 71m Shell dredge. April 19, 1961.
- P 456 NAGA 61 0246. Timor Sea. 10°56.3'S 129°25.9'E 71m Shell dredge. April 19, 1961.
- P 457 NAGA 61 0246. Timor Sea. 10°56.3'S 129°25.9'E 71m Shell dredge. April 19, 1961.
- P 458 NAGA 61 0246. Timor Sea. 10°56.3'S 129°25.9'E 71m Shell dredge. April 19, 1961.
- P 459 NAGA 61 0245. Timor Sea. 10°56.3'S 129°36.25'E 28m Shell dredge. April 19, 1961.
- P 460 NAGA 61 0245. Timor Sea. 10°56.3'S 129°36.25'E 28m Shell dredge. April 19, 1961.
- P 461 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.
- P 463 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.
- P 464 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.
- P 465 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.
- P 466 Sta. 8. La Jolla Canyon, Off La Jolla, California. 114-40m Rock dredge. Rock, sand, clay. January 7, 1954.
- P 467 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.
- P 468 HR-3. P-145. Santa Cruz Basin, California. 33°40.5'N 119°29.3'W 1880-1936m 16' otter trawl. May 11, 1960 0050-0515. Coll. R. Parker.
- P 469 Monsoon Sta. VI-28 101-D. East of New Zealand. 49°42'S 178°52'E 274m Rock dredge 101-D. February 20, 1961 1000-1130. Coll. Russell & Menard.
- P 470 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.
- P 471 Monsoon Exped. 72-D. Off New Zealand. 43°26'S 176°43'E 245m Rock dredge. January 1200.
- P 472 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.
- P 473 Monsoon Exped. Sta. VII-5 107-D. SouthEast of New Zealand. 47°35'S 178°58'E 146m Rock dredge 107-D. February 28, 1961 1213-1253. Coll. Russell.
- P 474 East wall of Sumner Canyon, La Jolla, California. 33-40m September 8, 1964.
- P 475 NAGA 61 0245. Timor Sea. 10°56.3'S 129°36.25'E 28m Shell dredge. April 19, 1961.
- P 476 NAGA 61 0245. Timor Sea. 10°56.3'S 129°36.25'E 28m Shell dredge. April 19, 1961.
- P 477 6108B-75. Off Boca Teacapan, Sinaloa, Mexico. 22°15'N 106°3'W 54m 16' otter trawl. August 25, 1961. Coll. F.H. Berry.
- P 478 6108B-75. Off Boca Teacapan, Sinaloa, Mexico. 22°15'N 106°3'W 54m 16' otter trawl. August 25, 1961. Coll. F.H. Berry.
- P 479 RR61-3. Cabo San Lucas, Baja California Sur, Mexico. Diving. June 12, 1965. Coll. R. Rosenblatt.
- P 480 Baja Slope Exped. BS-12. Basin off Bahia Magdalena, Baja Calif. Sur, Mexico. 23°59.5'N 113°11.9'W 3481-3518m 10' beam trawl. Silty clay. May 3, 1961 0845-1530. Coll. R. Parker.
- P 481 Cortez Bank. 32°30.2'N 119°13.7'W 94m 16' otter trawl. May 16, 1963 2030-2100. Coll. F.H. Berry.
- P 482 SIO63-874. San Diego Trough. 32°26'N 117°36'W 10' IKMT. Hit bottom. November 1, 1963 R/V Agassiz. Coll. R. Wisner.
- P 483 SUC Cruise dredge 1. Off San Diego, California. 32°5'N 118°20'W 550-400m Rock dredge. March 19, 1964 0600-0800. Coll. Winterer.
- P 484 B6411-23. 10 km. W.SouthWest of Boca de Animas, Baja California Sur, Mexico. 25°40'N 112°13'W 37-38m 16' otter trawl TR #133. November 16, 1964 R/V Black Douglas.
- P 485 Coronado Bank. 180m Diving saucer. December 22, 1964. Coll. A.O. Flechsig.
- P 486 Nicklins Reef, 1 km. West of Marine Street, La Jolla, California. 30-33m April 4, 1964.
- P 487 H50-72. Off old whaling station, San Ignacio Lagoon, Baja Calif. Sur, Mexico. 2m Shrimp dredge. February 11-12, 1950. Coll. C. Hubbs.
- P 488 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.
- P 489 MV65-I-4. N. West 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.
- P 490 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.

- P 491 RR65-39. N. West 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.
- P 492 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.
- P 493 RR65-30. Punta San Telmo, Baja Calif. Sur, Mexico. 25°18'N 110°57.5'W 0-3m Noxfish & snorkel. July 10, 1965 0930-1130. Coll. B.W. Walker.
- P 494 RR65-40. West side of Isla Monserrate, Baja California Sur, Mexico. 25°38'N 111°4'W 91-73m 40' oter trawl. July 12, 1965. Coll. R. Rosenblatt.
- P 495 NAGA 61 0245. Timor Sea. 10°56.3'S 129°36.25'E 28m Shell dredge. April 19, 1961.
- P 496 NAGA 61 0245. Timor Sea. 10°56.3'S 129°36.25'E 28m Shell dredge. April 19, 1961.
- P 497 NAGA 61 0245. Timor Sea. 10°56.3'S 129°36.25'E 28m Shell dredge. April 19, 1961.
- P 498 NAGA 61 0245. Timor Sea. 10°56.3'S 129°36.25'E 28m Shell dredge. April 19, 1961.
- P 499 NAGA 61 0246. Timor Sea. 10°56.3'S 129°25.9'E 71m Shell dredge. April 19, 1961.
- P 500 NAGA 61 0249. Timor Sea. 10°54.75'S 128°49.75'E 34-82m Chain bag dredge. April 19, 1961.
- P 501 NAGA 61 0249. Timor Sea. 10°54.75'S 128°49.75'E 34-82m Chain bag dredge. April 19, 1961.
- P 502 NAGA 61 0249. Timor Sea. 10°54.75'S 128°49.75'E 34-82m Chain bag dredge. April 19, 1961.
- P 503 NAGA 61 0249. Timor Sea. 10°54.75'S 128°49.75'E 34-82m Chain bag dredge. April 19, 1961.
- P 504 NAGA 61 0249. Timor Sea. 10°54.75'S 128°49.75'E 34-82m Chain bag dredge. April 19, 1961.
- P 505 NAGA 61 0249. Timor Sea. 10°54.75'S 128°49.75'E 34-82m Chain bag dredge. April 19, 1961.
- P 506 NAGA 61 0249. Timor Sea. 10°54.75'S 128°49.75'E 34-82m Chain bag dredge. April 19, 1961.
- P 507 NAGA 61 0249. Timor Sea. 10°54.75'S 128°49.75'E 34-82m Chain bag dredge. April 19, 1961.
- P 508 NAGA 61 0249. Timor Sea. 10°54.75'S 128°49.75'E 34-82m Chain bag dredge. April 19, 1961.
- P 509 NAGA 61 0249. Timor Sea. 10°54.75'S 128°49.75'E 34-82m Chain bag dredge. April 19, 1961.
- P 510 NAGA 61 0249. Timor Sea. 10°54.75'S 128°49.75'E 34-82m Chain bag dredge. April 19, 1961.
- P 511 NAGA 61 0249. Timor Sea. 10°54.75'S 128°49.75'E 34-82m Chain bag dredge. April 19, 1961.
- P 512 NAGA 61 0249. Timor Sea. 10°54.75'S 128°49.75'E 34-82m Chain bag dredge. April 19, 1961.
- P 513 NAGA 60 0104. Gulf of Thailand. 9°37'N 100°21'E 26-31m 6' beam trawl. January 20, 1960.
- P 514 NAGA 60 0140. Gulf of Thailand. 9°7'N 100°47.75'E 33m 6' beam trawl. January 26, 1960.
- P 515 NAGA 60 0216. South China Sea. 15°40'N 109°43.5'E 479m 10' beam trawl. February 28, 1960.
- P 516 NAGA 60 0211. South China Sea. 15°41'N 108°41'E 37m 10' beam trawl. February 27, 1960.
- P 517 NAGA 60 0264. South China Sea. 10°31.5'N 109°25'E 183m 10' beam trawl. March 9, 1960.
- P 518 NAGA 60-0778. South China Sea.
- P 519 NAGA 60-1042. South China Sea.
- P 520 NAGA 60 1097. Gulf of Thailand. 12°39.3'N 100°15.75'E 29m 16' otter trawl. December 13, 1960.
- P 521 NAGA 61 0250. Timor Sea. 10°57'S 128°42'E 34m Shell dredge. April 19, 1961.
- P 522 NAGA 61 0250. Timor Sea. 10°57'S 128°42'E 34m Shell dredge. April 19, 1961.
- P 523 NAGA 61 0250. Timor Sea. 10°57'S 128°42'E 34m Shell dredge. April 19, 1961.
- P 524 NAGA 61 0250. Timor Sea. 10°57'S 128°42'E 34m Shell dredge. April 19, 1961.
- P 525 NAGA 61 0250. Timor Sea. 10°57'S 128°42'E 34m Shell dredge. April 19, 1961.
- P 526 NAGA 61 0250. Timor Sea. 10°57'S 128°42'E 34m Shell dredge. April 19, 1961.
- P 527 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.
- P 528 M-4 Sta. 1. San Diego Trough. 32°33'N 117°31'W 1234m 25' otter trawl. Mud. June 22, 1971 1306-1649. R/V Agassiz. Coll. R. McConnaughey.
- P 529 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.
- P 530 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.
- P 531 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.
- P 532 R-28. San Diego Trough, California. 32°35'N 117°33.6'W 1183-1216m 25' otter trawl. Mud. January 21, 1971 1850-2116. R/V Agassiz. Coll. F. Rokop.
- P 533 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.

- P 534 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.
- P 535 R-39. San Diego Trough, California. 32°36.5'N 117°32.5'W 1161-1198m 25' otter trawl. Mud. July 12, 1971 1145-1450. R/V Agassiz. Coll. F. Rokop.
- P 536 Afterthot II A-15. East Cortez Basin, California. 32°32.5'N 118°53.5'W 1298m 25' otter trawl. May 6, 1975 1535-1553. R/V Agassiz. Coll. J.F. Siebenaller.
- P 537 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.
- P 538 Afterthot II A-24. San Diego Trough, California. 32°52.2'N 117°42'W 1057m 25' otter trawl. May 8, 1975 2302-2324. R/V Agassiz. Coll. J.F. Siebenaller.
- P 539 Afterthot II A-24. San Diego Trough, California. 32°52.2'N 117°42'W 1057m 25' otter trawl. May 8, 1975 2302-2324. R/V Agassiz. Coll. J.F. Siebenaller.
- P 540 Afterthot II A-20. San Nicolas Basin, California. 32°2.5'N 119°2.7'W 1746m 25' otter trawl. May 7, 1975 2310-2347. R/V Agassiz. Coll. J.F. Siebenaller.
- P 541 MV73-I-8. N.East 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.
- P 542 MV73-I-69. Nicaragua. 11°7.6'N 86°34.4'W 150-165m 40' otter trawl. April 18, 1973 0744-0859. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- P 543 MV73-I-12. Off Bahia Chamela, Jalisco, Mexico. 19°34'N 105°10.8'W 66-71m 40' otter trawl. April 2, 1973 0914-0951. R/V Agassiz. Coll. C. Hubbs, S. Luke.
- P 544 M-15 OT-1. San Diego Trough, California. 32°27'N 117°30'W 1225m 25' otter trawl. March 27, 1974 0730-1015. R/V Agassiz. Coll. T. Matsui.
- P 545 M-15 OT-1. San Diego Trough, California. 32°27'N 117°30'W 1225m 25' otter trawl. March 27, 1974 0730-1015. R/V Agassiz. Coll. T. Matsui.
- P 546 Palomar Reef, La Jolla, California. Intertidal sandstone rocks. January 8, 1974. Coll. S. Luke.
- P 547 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.
- P 548 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.
- P 549 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.
- P 550 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.
- P 551 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.
- P 553 San Diego Bay, San Diego, California.
- P 554 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.
- P 555 MV66-I-6. Off Cabo Colnett, Baja Calif. Norte, Mexico. 31°4'N 118W 1463-1728m 40' otter trawl. March 31, 1966 R/V Agassiz. Coll. C. Hubbs.
- P 556 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.
- P 557 MV66-III-21. W.S. West 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.
- P 558 MV66-III-21. W. South West 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.
- P 559 Mission Bay Yacht Club, Mission Bay, San Diego, California. Docks. January 1968.
- P 560 SIO69-486. San Diego Trough. 32°25'N 117°29.8'W 1250m IKMT. Mud. December 13, 1969 R/V Melville. Coll. R. Hessler, S. Luke.
- P 561 SIO69-487. San Diego Trough. 32°26'N 117°31.3'W 1207-1234m 25' otter trawl. Mud. December 13, 1969 R/V Melville. Coll. R. Hessler, S. Luke.
- P 562 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.
- P 563 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.
- P 564 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.
- P 565 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.
- P 566 Baja 69-17. Bahia Sebastian Vizciano, Baja California Sur, Mexico. 27°43'N 115°7'W 86m Pipe dredge. February 24, 1969 R/V Oconostota.

- P 567 Baja 69-21. Bahia Sebastian Vizciano, Baja California Norte, Mexico. 28°22'N 115°11'W 81m Pipe dredge. February 25, 1969 R/V Oconostota.
- P 568 Baja 69-22. Bahia Sebastian Vizciano, Baja California Norte, Mexico. 28°18'N 115°31'W 146m dredge. February 25, 1969 R/V Oconostota.
- P 569 MB-6904-3 TR #148. 20 km. SouthEast of Guaymas, Mexico. 27°46.5'N 110°44'W 46m 17' otter trawl. April 23, 1969. Coll. Moser.
- P 570 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.
- P 571 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.
- P 572 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.
- P 573 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.
- P 574 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.
- P 575 ANTI-I-7D. 35°20'N 121°38'W 1258-1036m Dredge. June 18, 1970 R/V Melville. Coll. Liebertz.
- P 576 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.
- P 577 Seventow-Leg 7 Sta. #44. Korovin Bay, Alaska. 52°15.4'N 174°18.8'W 35-42m Epibenthic sled. July 22, 1970 R/V T. Washington. Coll. R. Hessler, S. Luke.
- P 578 R-3. San Diego Trough, California. 32°23.5'N 117°29.3'W 1243-1258m 25' otter trawl. Mud. October 26, 1970 1808-2100. R/V Agassiz. Coll. F. Rokop, S. Luke.
- P 579 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.
- P 580 R-12. San Diego Trough. 32°34.5'N 117°33'W 1170-1216m 25' otter trawl. Mud. October 29, 1970 1900-2147. R/V Agassiz. Coll. F. Rokop, S. Luke.
- P 581 SIO70-70. Off Cerro Colorado, Sonora, Mexico. 37m Shrimp trawler. March 17-18, 1970. Coll. R. McConnaughey.
- P 582 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.
- P 583 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.
- P 584 MV71-I-44. Outer 1,000 Fathom Basin, off Rio San Vincente, 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.
- P 585 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.
- P 586 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.
- P 587 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.
- P 588 R-20. San Diego Trough, California. 32°28'N 117°29'W 1203-1225m 25' otter trawl. Mud. January 18, 1971 2222-0150. R/V Agassiz. Coll. F. Rokop.
- P 589 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.
- P 590 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.
- P 591 R-51. San Diego Trough. 32°23'N 117°28'W 1238-1256m 25' otter trawl. Mud. October 23, 1971 1644-2030. R/V Agassiz. Coll. F. Rokop, S. Luke.
- P 592 SouthTow 0.-3D. Steep scarp off California. 32°20.4'N 118°53.6'W 1165-958m December 11, 1971 R/V T. Washington. Coll. Matthews.
- P 593 ANTIPODE 8 143 D. Seychelles. 8°18'N 58°55'E 362m Rock dredge. February 4, 1971 R/V Melville. Coll. J. Coatsworth.
- P 594 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.
- P 595 Student Cruise. New Hope Rock, 1 km. N. West of Coast Guard lighthouse, Point Loma, California. November 12, 1960.
- P 596 6411B-10. Bahia Magdalena, Baja Calif. Sur, Mexico. 24°38.8'N 111°57'W 11m 16' otter trawl TR-120. November 11, 1964 R/V Black Douglas.
- P 597 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.

- P 598 MB-6904-4 TR #149. 10 km. East of South end of Isla Tiburon, Golfo de California, Mexico. 28°48'N 112°10.4'W 25m 17' otter trawl. April 25, 1969. Coll. Moser.
- P 599 TP-38. SouthEast 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.
- P 600 South of Rocky Point, Puerto Penasco, Sonora, Mexico. Tidepools. October 19, 1968 0700. Coll. T. Cukr.
- P 601 South of Rocky Point, Puerto Penasco, Sonora, Mexico. Tidepools. October 19, 1968 0700. Coll. T. Cukr.
- P 602 South of Rocky Point, Puerto Penasco, Sonora, Mexico. Tidepools. October 19, 1968 0700. Coll. T. Cukr.
- P 603 Punta Penasca, Sonora, Mexico. April 22, 1951. Coll. Fred Wylie.
- P 604 Punta Penasca, Sonora, Mexico. April 22, 1951. Coll. Fred Wylie.
- P 605 Punta Penasca, Sonora, Mexico. April 22, 1951. Coll. Fred Wylie.
- P 606 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.
- P 607 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.
- P 608 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.
- P 609 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.
- P 610 Downwind HD73. On shoal guyot. 25°44'S 88°25'W. January 26, 1958 1520-1600. Det.E. Brinton.
- P 611 Scripps Canyon, La Jolla, California. Diving saucer. November 17, 1964. Coll. A.O. Flechsig.
- P 612 6111B-26. Bahia Magdalen, Baja California Sur, Mexico. 24°32'N 112°1'W 16' otter trawl #35. November 29, 1961. Coll. F.H. Berry.
- P 613 Bacanyon Cruise Sta. 42. Of Punta Pescadero, Baja California Sur, Mexico. 23°47'N 109°34'W 640m February 9, 1962 1530.
- P 614 NAGA 52. Between Kolan & Ko Sichon, Gulf of Thailand. 13°2'N 100°1'E 25m 40' otter trawl. December 15, 1959 1108-1210 R/V Stranger.
- P 615 H52-203. 1 km. E of Punta Blanca, Bahia Blanca, Baja California Norte, Mexico. Try net. September 4, 1952 R/V Orca. Coll. K.S. Norris.
- P 616 SIO65-106. Coronado Bank. 33°33'N 117°22'W 155m Diving Sauder #346. April 19, 1965. Coll. C. Hubbs.
- P 617 MV65-I-44. SouthEast of Punta Tasco, off Boca Flor'de Malva, Baja California Sur, Mexico. 24°11'N 111°27'W 102-106m 45' otter trawl. June 27, 1965. Coll. C. Hubbs.
- P 618 SIO64-1029. Santa Cruz Basin Disposal Survey Area Sta. A. 33°46'N 119°37'W 1829m Rock dredge. April 23, 1957 R/V S.F. Baird.
- P 619 VSS-18. Off Cabo San Lucas, Baja California Sur, Mexico. 22°48'N 109°44'W 300-212m Rock dredge. March 27, 1959 0500-0708. Coll. R. Parker.
- P 620 Pratt Seamount. 56°20'N 146°3'W Rock dredge. August 22, 1951 2345.
- P 621 H52-13. South of explosive dump in San Diego Trough, California. 32°25'N 117°37'W 1225m February 27, 1952.
- P 622 SIO64-951. Cabo Colnett, Baja California Norte, Mexico. 31°8'N 116°35'W 91-141m Fish traps. On bank. November 17-18, 1964. Coll. C.W. Jerde.
- P 623 MV66-III-21. W.S. West 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.
- P 624 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.
- P 625 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.
- P 626 Santa Catalina Basin, California. 33°18'N 118°35'W 1300m Submersible DSRV Alvin. June 19, 1979. Coll. K.L. Smith, Jr.
- P 627 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.
- P 628 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.
- P 629 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.
- P 630 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.
- P 631 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.
- P 632 R-38. San Diego Trough, California. 32°33.5'N 117°29'W 1207m 25' otter trawl. Mud. April 21, 1971 0550-0915. R/V Agassiz. Coll. F. Rokop.
- P 634 R-45. San Diego Trough, California. 32°26.4'N 117°27.7'W 1207-1243m 25' otter trawl. Mud. July 14, 1971 1945-2340. R/V Agassiz. Coll. F. Rokop.



- P 635 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.
- P 636 R-12. San Diego Trough. 32°34.5'N 117°33'W 1170-1216m 25' otter trawl. Mud. October 29, 1970 1900-2147. R/V Agassiz. Coll. F. Rokop, S. Luke.
- P 637 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.
- P 638 Cruise Sta. 15. Santa Catalina Basin, California. 32°56'N 118°24'W 1121-1137m 16' otter trawl. Mud. December 10, 1972 1105-1410. R/V Agassiz. Coll. R.R. Hessler.
- P 639 Sta. 19. Santa Catalina Basin, California. 32°58'N 118°24'W 1116m 16' otter trawl. Mud. December 11, 1972 1335-1644. R/V Agassiz. Coll. P. Jumars.
- P 640 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.
- P 641 Wylie Bay (next to Anvers Island), Palmer Peninsula, Antarctica. 183m Blake trawl. January 1969.
- P 642 AQ14 SCAN IV Sta. 35D. West of Mariana Islands. 20°55'N 142°32'E 2423m Rock dredge. June 20, 1969 1855-2210. Coll. J. Coatsworth.
- P 643 SEMT. 30°12'N 120°3'W 914m.
- P 644 6212B-2. 11 km. N. West of Punta Marquis, Baja Calif. Sur, Mexico. 23°0.4'N 110°59.2'W 55m 16' otter trawl Tr #63. December 4, 1962. Coll. F. H. Berry.
- P 645 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.
- P 646 Colnett Nov. 64. Baja California Norte, Mexico. 31°7'N 116°35'W 101m Midwater trawl #20. On bottom. November 24, 1964. Coll. Dan Brown, C.W. Jerde.
- P 647 Colnett Nov. 64. Baja California Norte, Mexico. 31°7'N 116°35'W 91m Midwater trawl #21. On bottom. November 24, 1964. Coll. Dan Brown, C.W. Jerde.
- P 648 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.
- P 649 NAGA 60 0127. Gulf of Thailand. 8°37'N 102°21.5'E 73m 40' otter trawl. January 24, 1960.
- P 650 MARAII DREDGE #57. 16°54'N 145°40'E 1609m DREDGE.
- P 651 MARAII DREDGE #58. 16°0'N 145°24'E 4177m DREDGE.
- P 652 H52-120. Bahia Sebastian Vizcaino, Baja California Sur, Mexico. 27°51'N 114°46'W 35m 35' otter trawl. August 2, 1952 R/V Polina T. Coll. K.S. Norris.
- P 653 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.
- P 654 STYX-7 MPE68093 Sta. 1. Hamilton Guyot. 18°27'N 179°31'W 1436-1672m 25' otter trawl. September 3, 1968 1945-0145. R/V Agassiz. Coll. W. Newman.
- P 655 STYX-7 MPE68097 Sta. 4. Agassiz Guyot. 18N 178°15'E 1582-1617m 5'sigsbee trawl #3. September 7, 1968 2030-0030. R/V Agassiz. Coll. W. Newman.
- P 656 NAGA S4 60-0219. South China Sea. 15°39'N 111°51'E 1264-1234m 10' beam trawl. Sand & mud. February 29, 1960 0200-0245.
- P 657 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.
- P 658 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.
- P 659 HR-3. P-145. Santa Cruz Basin, California. 33°40.5'N 119°29.3'W 1880-1936m 16' otter trawl. May 11, 1960 0050-0515. Coll. R. Parker.
- P 660 HR-3. P-145. Santa Cruz Basin, California. 33°40.5'N 119°29.3'W 1880-1936m 16' otter trawl. May 11, 1960 0050-0515. Coll. R. Parker.
- P 661 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.
- P 663 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.
- P 664 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.
- P 665 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.
- P 666 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.
- P 667 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.
- P 668 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.
- P 669 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.

- P 670 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.
- P 671 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.
- P 672 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.
- P 673 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.
- P 674 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.
- P 675 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.
- P 676 Afterthot II A-15. East Cortez Basin, California. 32°32.5'N 118°53.5'W 1298m 25' otter trawl. May 6, 1975 1535-1553. R/V Agassiz. Coll. J.F. Siebenaller.
- P 677 Afterthot II A-15. East Cortez Basin, California. 32°32.5'N 118°53.5'W 1298m 25' otter trawl. May 6, 1975 1535-1553. R/V Agassiz. Coll. J.F. Siebenaller.
- P 678 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.
- P 679 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.
- P 680 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.
- P 681 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.
- P 682 MV66-I-6. Off Cabo Colnett, Baja Calif. Norte, Mexico. 31°4'N 118W 1463-1728m 40' otter trawl. March 31, 1966 R/V Agassiz. Coll. C. Hubbs.
- P 683 MV66-I-6. Off Cabo Colnett, Baja Calif. Norte, Mexico. 31°4'N 118W 1463-1728m 40' otter trawl. March 31, 1966 R/V Agassiz. Coll. C. Hubbs.
- P 684 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.
- P 685 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.
- P 686 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.
- P 687 MV66-III-21. W.S. West 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.
- P 688 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.
- P 689 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.
- P 690 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.
- P 691 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.
- P 692 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.
- P 693 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.
- P 694 ANTI-I-7D. 35°20'N 121°38'W 1258-1036m Dredge. June 18, 1970 R/V Melville. Coll. Liebertz.
- P 695 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.
- P 696 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.
- P 697 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.
- P 698 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.
- P 699 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.

- P 700 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.
- P 701 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.
- P 702 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.
- P 703 R-51. San Diego Trough. 32°23'N 117°28'W 1238-1256m 25' otter trawl. Mud. October 23, 1971 1644-2030. R/V Agassiz. Coll. F. Rokop, S. Luke.
- P 704 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.
- P 705 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.
- P 706 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.
- P 707 R-38. San Diego Trough, California. 32°33.5'N 117°29'W 1207m 25' otter trawl. Mud. April 21, 1971 0550-0915. R/V Agassiz. Coll. F. Rokop.
- P 708 R-12. San Diego Trough. 32°34.5'N 117°33'W 1170-1216m 25' otter trawl. Mud. October 29, 1970 1900-2147. R/V Agassiz. Coll. F. Rokop, S. Luke.
- P 709 R-12. San Diego Trough. 32°34.5'N 117°33'W 1170-1216m 25' otter trawl. Mud. October 29, 1970 1900-2147. R/V Agassiz. Coll. F. Rokop, S. Luke.
- P 710 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.
- P 711 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.
- P 712 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.
- P 713 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.
- P 714 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.
- P 715 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.
- P 716 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.
- P 717 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.
- P 718 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.
- P 719 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.
- P 720 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.
- P 721 Cruise Sta. 15. Santa Catalina Basin, California. 32°56'N 118°24'W 1121-1137m 16' otter trawl. Mud. December 10, 1972 1105-1410. R/V Agassiz. Coll. R.R. Hessler.
- P 722 Cruise Sta. 15. Santa Catalina Basin, California. 32°56'N 118°24'W 1121-1137m 16' otter trawl. Mud. December 10, 1972 1105-1410. R/V Agassiz. Coll. R.R. Hessler.
- P 723 Cruise Sta. 15. Santa Catalina Basin, California. 32°56'N 118°24'W 1121-1137m 16' otter trawl. Mud. December 10, 1972 1105-1410. R/V Agassiz. Coll. R.R. Hessler.
- P 724 Cruise Sta. 15. Santa Catalina Basin, California. 32°56'N 118°24'W 1121-1137m 16' otter trawl. Mud. December 10, 1972 1105-1410. R/V Agassiz. Coll. R.R. Hessler.
- P 725 Sta. 19. Santa Catalina Basin, California. 32°58'N 118°24'W 1116m 16' otter trawl. Mud. December 11, 1972 1335-1644. R/V Agassiz. Coll. P. Jumars.
- P 726 Sta. 19. Santa Catalina Basin, California. 32°58'N 118°24'W 1116m 16' otter trawl. Mud. December 11, 1972 1335-1644. R/V Agassiz. Coll. P. Jumars.
- P 727 Sta. 19. Santa Catalina Basin, California. 32°58'N 118°24'W 1116m 16' otter trawl. Mud. December 11, 1972 1335-1644. R/V Agassiz. Coll. P. Jumars.
- P 728 Sta. 19. Santa Catalina Basin, California. 32°58'N 118°24'W 1116m 16' otter trawl. Mud. December 11, 1972 1335-1644. R/V Agassiz. Coll. P. Jumars.
- P 729 Sta. 19. Santa Catalina Basin, California. 32°58'N 118°24'W 1116m 16' otter trawl. Mud. December 11, 1972 1335-1644. R/V Agassiz. Coll. P. Jumars.
- P 730 INVALID ACC. NO.
- P 731 SnFu 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.
- P 732 Bahia Concepcion, Baja Calif. Sur, Mexico. 26°45'N 111°55'W 0-5m Snorkel. Sand & rocks. July 19, 1980. Coll. S. Luke.

- P 733 Bahia Concepcion, Baja Calif. Sur, Mexico. 26°45'N 111°55'W 0-5m Snorkel. Sand & rocks. July 19, 1980. Coll. S. Luke.
- P 734 Bahia Concepcion, Baja Calif. Sur, Mexico. 26°45'N 111°55'W 0-5m Snorkel. Sand & rocks. July 19, 1980. Coll. S. Luke.
- P 735 Entrance to Bahia Tortugas, Baja Calif. Sur, Mexico. 8-17m SCUBA & hand collections. *Macrocystis* kelp community. August 4-6, 1980. Coll. Mia Tegner.
- P 736 Entrance to Bahia Tortugas, Baja Calif. Sur, Mexico. 8-17m SCUBA & hand collections. *Macrocystis* kelp community. August 4-6, 1980. Coll. Mia Tegner.
- P 737 Entrance to Bahia Tortugas, Baja Calif. Sur, Mexico. 8-17m SCUBA & hand collections. *Macrocystis* kelp community. August 4-6, 1980. Coll. Mia Tegner.
- P 738 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.
- P 739 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.
- P 740 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.
- P 741 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.
- P 809 Cape Armitage, Antarctica. 27m SCUBA. January 1976. Coll. O'Connor.
- P 810 Cape Armitage, Antarctica. 27m SCUBA. January 1976. Coll. O'Connor.
- P 811 Cape Armitage, Antarctica. 27m SCUBA. January 1976. Coll. O'Connor.
- P 812 Cape Armitage, Antarctica. 27m SCUBA. January 1976. Coll. O'Connor.
- P 813 Cape Armitage, Antarctica. 27m SCUBA. January 1976. Coll. O'Connor.
- P 814 New Harbor, Antarctica. 30m SCUBA. January 2, 1976. Coll. Oliver.
- P 815 Cape Armitage, Antarctica. 27m SCUBA. October 26, 1974.
- P 816 New Harbor, Antarctica. 33m SCUBA. October 29, 1974. Coll. J. Rude.
- P 817 McMurdo Sound, Antarctica. 462m Brought up with fish trap. November 3, 1974. Coll. V. Raymond.
- P 818 Cape Armitage, Antarctica. 36m SCUBA. November 18, 1974. Coll. J. Rude.
- P 819 New Harbor, Antarctica. 43m SCUBA. November 15, 1975.
- P 820 Cape Armitage, Antarctica. 33m SCUBA. September 13, 1974. Coll. J. Rude.
- P 821 Garwold Valley, Antarctica. 27m SCUBA. January 5, 1976. Coll. O'Connor.
- P 822 Cape Armitage, Antarctica. 20m SCUBA. January 1976. Coll. O'Connor.
- P 823 Cape Armitage, Antarctica. 30m SCUBA. January 1976. Coll. O'Connor.
- P 824 New Harbor, Antarctica. 33m SCUBA. November 13, 1974. Coll. J. Rude.
- P 825 Cape Armitage, Antarctica. 30m SCUBA. September 15, 1974. Coll. J. Rude.
- P 826 Cape Armitage, Antarctica. 27m SCUBA. September 26, 1974. Coll. J. Rude.
- P 827 Cape Armitage, Antarctica. 31m SCUBA. November 16, 1974. Coll. J. Rude.
- P 828 Cape Armitage, Antarctica. 33m SCUBA. November 15, 1974.
- P 829 Cape Armitage, Antarctica. 33m SCUBA. September 15, 1974. Coll. J. Rude.
- P 830 S. Cape Armitage, Antarctica. SCUBA. December 7, 1974. Coll. J. Rude.
- P 831 Cape Armitage, Antarctica. 27m SCUBA. September 11, 1974. Coll. J. Rude.
- P 832 New Harbor, Antarctica. 33m SCUBA. November 13, 1974.
- P 833 New Harbor, Antarctica. 43m SCUBA. November 15, 1975.
- P 834 New Harbor, Antarctica. 33m SCUBA. October 29, 1974.
- P 835 New Harbor, Antarctica. 33m SCUBA. October 29, 1974.
- P 836 Winter Quarters Bay, Antarctica. 23m SCUBA. September 11, 1974. Coll. J. Rude.
- P 837 Cape Armitage, Antarctica. 27m SCUBA. 1974.
- P 838 Cape Armitage, Antarctica. SCUBA. September 15, 1974. Coll. J. Rude.
- P 839 Cape Armitage, Antarctica. 33m SCUBA. November 18, 1974. Coll. J. Rude.
- P 844 Cape Armitage, Antarctica. 27m SCUBA. January 1976. Coll. O'Connor.
- P 850 Cape Armitage, Antarctica. 33m SCUBA. November 20, 1968. Coll. Robilliard & Dayton.
- P 851 Cape Armitage, Antarctica. SCUBA. December 14, 1974. Coll. J. Rude.
- P 857 Arival Heights, Antarctica. 43m SCUBA. November 3, 1968. Coll. Robilliard & Dayton.
- P 866 McMurdo Sound, Antarctica. 53m SCUBA. November 10, 1968. Coll. P. Dayton.
- P 867 Cape Armitage, Antarctica. 27m SCUBA. September 26, 1974. Coll. J. Rude.
- P 868 Cape Armitage, Antarctica. 23m SCUBA. November 10, 1967. Coll. Robilliard & Dayton.
- P 869 Cape Evans, Antarctica. 20m SCUBA. November 19, 1967. Coll. Robilliard & Dayton.
- P 870 Arrival Heights, Antarctica. 43m SCUBA. December 14, 1968. Coll. Robilliard & Dayton.
- P 871 Arrival Heights, Antarctica. 53m SCUBA. November 1, 1968. Coll. P. Dayton.
- P 876 Cape Armitage, Antarctica. 30m SCUBA. December 6, 1967. Coll. Robilliard & Dayton.
- P 879 Cape Armitage, Antarctica. 40m SCUBA. December 13, 1968. Coll. Robilliard & Dayton.
- P 880 Cape Armitage, Antarctica. 27m SCUBA. January 1976. Coll. O'Connor.
- P 881 Cape Armitage, Antarctica. 50m SCUBA. December 11, 1968. Coll. P. Dayton.
- P 884 Hut Point, Antarctica. 41m SCUBA. November 3, 1967. Coll. P. Dayton.

- P 891 Cape Armitage, Antarctica. 33m SCUBA. September 15, 1974.
- P 893 S. Cape Armitage, Antarctica. SCUBA. December 7, 1974.
- P 894 Cape Armitage, Antarctica. 27m SCUBA. October 2, 1974.
- P 897 Cape Armitage, Antarctica. SCUBA. October 21, 1968. Coll. Robilliard & Dayton.
- P 898 McMurdo Sound, Antarctica. SCUBA. Spring 1967. Coll. Robilliard & Dayton.
- P 901 Cape Armitage, Antarctica. 23m SCUBA. November 19, 1967. Coll. P. Dayton.
- P 903 New Harbor, Antarctica. 33m SCUBA. October 29, 1974. Coll. J. Rude.
- P 905 Ferrar Glacier, Antarctica. 30-40m SCUBA. January 7, 1976. Coll. O'Connor.
- P 906 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.
- P 907 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.
- P 908 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.
- P 909 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.
- P 910 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.
- P 911 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.
- P 912 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.
- P 913 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.
- P 914 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.
- P 915 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.
- P 916 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.
- P 917 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.
- P 918 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.
- P 919 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.
- P 920 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.
- P 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.
- P 922 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.
- P 923 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.
- P 924 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.
- P 925 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.
- P 926 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.
- P 927 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.
- P 928 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.
- P 929 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.
- P 930 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.
- P 931 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.



- P 961 MET Sta. 133. West of Patton Escarpment. 32°25'N 120°40'W 3689-3632m 40' otter trawl. February 7, 1981 R/V New Horizon. Coll. K. Smith, S. Luke.
- P 962 MET Sta. 133. West of Patton Escarpment. 32°25'N 120°40'W 3689-3632m 40' otter trawl. February 7, 1981 R/V New Horizon. Coll. K. Smith, S. Luke.
- P 963 MET Sta. 133. West of Patton Escarpment. 32°25'N 120°40'W 3689-3632m 40' otter trawl. February 7, 1981 R/V New Horizon. Coll. K. Smith, S. Luke.
- P 964 MET Sta. 133. West of Patton Escarpment. 32°25'N 120°40'W 3689-3632m 40' otter trawl. February 7, 1981 R/V New Horizon. Coll. K. Smith, S. Luke.
- P 965 MET Sta. 133. West of Patton Escarpment. 32°25'N 120°40'W 3689-3632m 40' otter trawl. February 7, 1981 R/V New Horizon. Coll. K. Smith, S. Luke.
- P 966 MET Sta. 133. West of Patton Escarpment. 32°25'N 120°40'W 3689-3632m 40' otter trawl. February 7, 1981 R/V New Horizon. Coll. K. Smith, S. Luke.
- P 967 MET Sta. 133. West of Patton Escarpment. 32°25'N 120°40'W 3689-3632m 40' otter trawl. February 7, 1981 R/V New Horizon. Coll. K. Smith, S. Luke.
- P 968 MET Sta. 133. West of Patton Escarpment. 32°25'N 120°40'W 3689-3632m 40' otter trawl. February 7, 1981 R/V New Horizon. Coll. K. Smith, S. Luke.
- P 969 MET Sta. 133. West of Patton Escarpment. 32°25'N 120°40'W 3689-3632m 40' otter trawl. February 7, 1981 R/V New Horizon. Coll. K. Smith, S. Luke.
- P 970 MET Sta. 133. West of Patton Escarpment. 32°25'N 120°40'W 3689-3632m 40' otter trawl. February 7, 1981 R/V New Horizon. Coll. K. Smith, S. Luke.
- P 971 Off South end of Nine Mile Bank, 10-11 miles Point Loma, San Diego, California. 250m March 29, 1981.
- P 972 CRISS-CROSS. North of Islas Galapagos, Ecuador. Dredge. March 3, 1963. Coll. T. Chase.
- P 973 RR61. Isla Espiritu Santo, Bahia de La Paz, Baja Calif. Sur, Mexico. 24°40'N 110°40'W 3-13m SCUBA. June 23, 1961. Coll. D. Leighton.
- P 974 East Pacific. 4572m Box core. Coll. Kennecott Exploration Inc.
- P 975 Santa Barbara, California. October 1973. Coll. Linda Ball.
- P 976 Ensenada, Baja California Norte, Mexico. January 9, 1974. Coll. T. Parr.
- P 977 Grand Bahamas #5. Gran Bahamas. September 1973. Coll. Linda Ball.
- P 979 San Diego Flood Control Channel, San Diego, California. August 1973.
- P 980 Point Loma, San Diego, California.
- P 981 San Mateo Kelp Beds, San Clemente, California. June 29, 1975.
- P 982 San Onofre, California. October 3, 1973.
- P 983 San Onofre, California. October 3, 1973.
- P 984 San Onofre, California. October 3, 1973.
- P 987 San Onofre, California. October 3, 1975.
- P 988 San Onofre, California. October 3, 1975.
- P 993 Su Casa Reef, La Jolla, California. October 1973.
- P 994 Quast Rock, La Jolla, California. March 8, 1973.
- P 995 God's Rock, La Jolla, California. On shell. November 8, 1972.
- P 996 Quast Rock, La Jolla, California. March 8, 1973.
- P 997 Quast Rock, La Jolla, California. March 8, 1973.
- P 1005 Quast Rock, La Jolla, California. 20m June 6, 1973.
- P 1006 New Harbor, McMurdo Sound, Antarctica. 30-41m November 15, 1975.
- P 1007 Cape Armitage, McMurdo Sound, Antarctica. 27m October 16, 1974.
- P 1008 New Harbor, McMurdo Sound, Antarctica. 33m November 15, 1974.
- P 1011 New Harbor, Antarctica. 33m November 15, 1974.
- P 1013 Cape Armitage, McMurdo Sound, Antarctica. 40m December 2, 1968.
- P 1014 New Harbor, McMurdo Sound, Antarctica. 43m November 14, 1974.
- P 1015 New Harbor, McMurdo Sound, Antarctica. 33m November 13, 1974.
- P 1016 W-1. McMurdo Sound, Antarctica. October 28, 1974.
- P 1020 New Harbor, McMurdo Sound, Antarctica. 33m November 13, 1974.
- P 1021 New Harbor, McMurdo Sound, Antarctica. 33m November 25, 1974.
- P 1022 South Cape Armitage, McMurdo Sound, Antarctica. 33m December 7, 1974.
- P 1024 Cape Evans, McMurdo Sound, Antarctica. 20m October 19, 1967.
- P 1025 CAII. Cape Armitage, McMurdo Sound. October 21, 1968. Coll. P.K. Dayton.
- P 1026 Cape Armitage III. McMurdo Sound. 47m November 19, 1968.
- P 1027 Cape Armitage, McMurdo Sound. 27m January 1967.
- P 1028 New Harbor, McMurdo Sound. 47m October 29, 1974.
- P 1029 Cape Armitage, McMurdo Sound. December 11, 1968.
- P 1030 Cape Armitage, McMurdo Sound. 33m November 19, 1974.
- P 1033 Arrival Heights, McMurdo Sound, Antarctica. 53m December 12, 1965.
- P 1034 Arrival Heights, McMurdo Sound, Antarctica. 55m November 24, 1968.
- P 1036 Cape Armitage, Antarctica. September 15, 1974.
- P 1040 S-4. San Onofre, California. 5-20m Rock. May 5, 1978.
- P 1042 S-6. Encinitas, California. 5-20m October 9, 1978.

- P 1053 SCII, Sta. 103. West of Patton Escarpment. 32°23'N 120°32'W 3970m 40' otter trawl. January 10, 1982 R/V New Horizon. Coll. R.R. Wilson.
- P 1054 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.
- P 1055 MET Sta. 129. West of Patton Escarpment. 32°22'N 120°42'W 3640-3740m 40' otter trawl. February 6, 1981 R/V New Horizon. Coll. K. Smith, S. Luke.
- P 1065 Isla Guadalupe, Baja California, Mexico. 13m In cave. August 23, 1983. Coll. R. Snodgrass.
- P 1066 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.
- P 1067 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.
- P 1068 TOADHOP-I Sta. 18. Bahia Magdalena, Baja Calif. Sur, Mexico. 24°36.8'N 112°1.4'W 27-29m 25' otter trawl. On bottom of keyhole sand dollar with large egg case on top. July 18, 1984 R/V E.B. Scripps. Coll. R. Rosenblatt.
- P 1069 TOADHOP-I Sta. 17. Bahia Magdalena, Baja California Sur, Mexico. 24°38.4'N 111°57.3'W 13m 25' otter trawl. July 28, 1984 R/V E.B. Scripps. Coll. R. Rosenblatt.
- P 1070 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.
- P 1071 TOADHOP-I Sta. 16. Punta Lobos, Baja California Sur, Mexico. 110m 25' otter trawl. July 17, 1984.
- P 1072 PROTEA 5 Sta. 12. South of Africa. 4300-4050m January 22, 1984. Coll. R.L. Fisher.
- P 1073 PROTEA 5 Sta. 22. Off tip of South Africa. 45°34'S 35°16.4'E 2350-1940m Rock dredge. January 28, 1984 R/V Melville. Coll. R.L. Fisher.
- P 1074 PROTEA 5 Sta. 25. South of Africa. 1920-1840m January 29, 1984 R/V Melville.
- P 1075 PROTEA 5 Sta. 42. South of Africa. 2100-1615m February 7, 1984 R/V Melville.
- P 1076 PROTEA 6 Sta. 46. N.East side of Elephant Island, S. Shetland Is. 60°57.5'S 55°5.3'W 150m Rock dredge. March 25, 1984 R/V Melville.
- P 1077 PROTEA 6 Sta. 46. North East side of Elephant Island, S. Shetland Is. 60°57.5'S 55°5.3'W 150m Rock dredge. March 25, 1984 R/V Melville.
- P 1078 PROTEA 6 Sta. 45. North side of Elephant Island, S. Shetland Is. 60°57.5'S 55°5.3'W 355m Rock dredge. March 25, 1984 1245-1434. R/V Melville.
- P 1079 Rise Exped. Alvin Dive #924 B-1. 21°N 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.
- P 1080 Rise Exped. Alvin Dive #924 B-1. 21°N 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.
- P 1081 Rise Exped. Alvin Dive #924 B-1. 21°N 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.
- P 1082 Guaymas Basin Exped. Leg II. Guaymas Basin, La Paz, Baja California Sur, Mexico. 1850m July 28, 1980.
- P 1083 Guaymas Basin Exped. Guaymas Basin, La Paz, Baja California Sur, Mexico. 1850m July 28, 1980.
- P 1084 Guaymas Basin Exped. Guaymas Basin, Golfo de California, Mexico. 27°23'N 111°36'W Submarine Alvin. July 1980.
- P 1085 Benthic 6. South West of Tahiti. 940-805m Dredge-8. April 2, 1983 1751-1925.
- P 1086 Benthic 7. South East of Mehetia. 2090m Dredge-10. April 19, 1983.
- P 1087 Indomed 8. S.W. Indian Ridge. 170-225m Dredge-10. May 17, 1978.
- P 1088 Indomed 8. South West Indian Ridge. 36°38.7'S 52°6'E 808-975m Rock dredge #14. May 22, 1978 R/V Melville.
- P 1089 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.
- P 1090 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.
- P 1091 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.
- P 1092 PLUM 02 WT D-14. Galapagos Island, Ecuador. 0°6'N 89°7.1'W 1639-1090m Rock dredge D-14. January 27, 1990.
- P 1093 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.
- P 1094 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.
- P 1095 M-4 Sta. 1. San Diego Trough. 32°33'N 117°31'W 1234m 25' otter trawl. Mud. June 22, 1971 1306-1649. R/V Agassiz. Coll. R. McConnaughey.