

A Checklist of Mollusks for Guaymas, Sonora, Mexico

BY

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(1 Map)

INTRODUCTION

GUAYMAS, ON THE EAST SHORE of the Gulf of California, at Latitude 28° 00' N, Longitude 111° 00' W is on the Mexican West Coast Highway 15, 260 miles south of the International Boundary at Nogales. Because of its geographical location and because of the variety of habitats available, this area permits a major sampling of the molluscan life of the Gulf. The diversified coastal terrain consists of numerous rocky promontories, between which lie long sandy beaches, bays, and quiet esteros. The mollusks here include: *Chione*, *Pitar*, *Oliva*, and *Terebra* on the sandy beaches; *Mitra*, *Typhis*, *Ocenebra*, and *Nuculana* in the bays; *Crassispira*, *Epitonium*, *Thais*, *Conus*, *Pecten*, and *Fusinus* in the esteros. The rubble at the foot of promontories provides habitat for *Neosimnia*, *Cypraea*, *Pterynotus*, and *Semele*.

This paper is intended to provide collectors with a working list and does not presume to be all-inclusive. The specimens enumerated include those taken by active collectors in an area of about fifteen miles west and ten miles east of the city of Guaymas. Specimens taken by dredging, diving and shore collecting are listed. When very few specimens of a species are recorded it is sometimes difficult to know whether the specimens have been introduced by shrimp boats or are rare native inhabitants.

The map, drawn by Roy Poorman, shows the number and extent of the collecting areas. To help the reader orient himself certain key points are named.

ECOLOGICAL NOTES ON THE COLLECTING AREAS

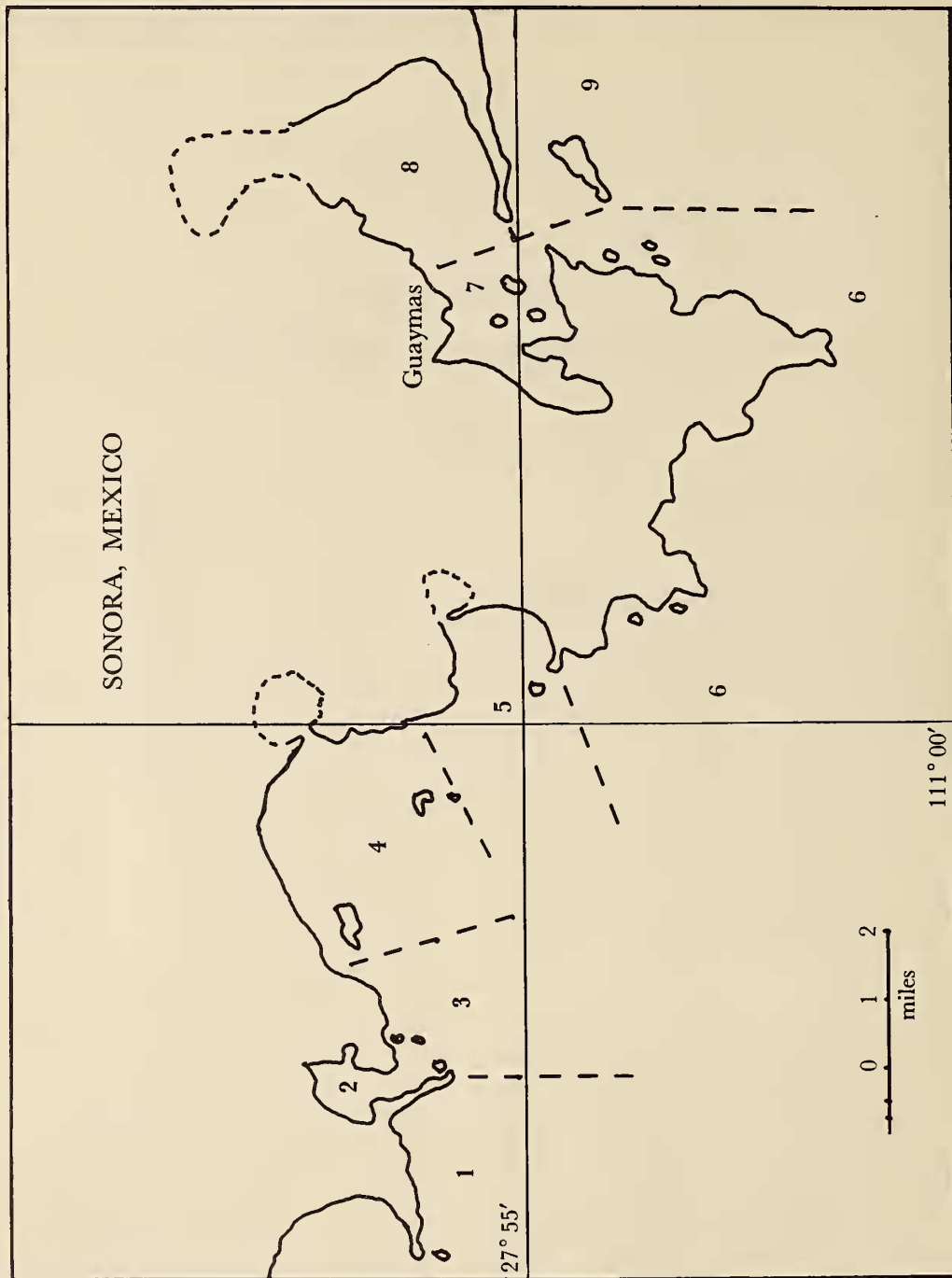
(see Map)

Area 1: In this area are several sandy beaches and rocky coves which can be reached by foot. The sand beaches are rewarding only at extreme low tide when *Oliva*, *Strombus*, and *Chione* can be taken. The rocky coves yield *Cypraea*, *Turridae*, and several of the *Mitridae* under small rocks and in crevices. Diving along the edge of the massive rock-falls, in 7 to 20 m of water, provides good hunting. From just beyond the larger rocks and sloping away from shore is a region of rocky rubble decreasing in size with the distance from shore. This region is from 12 to 17 fathoms in depth and about 300 feet wide. Starting near shore and dredging away from the cliffs brings many rarities such as *Typhis lowei*, *Clathrodrillia dichroa*, *Mitra sphoni*, and *Semele jovis*. Beyond the sloping shelf a silty bottom extends out to 30 fathoms at about one mile from shore. This area produces *Clavus*, *Cancellaria*, *Mangelia*, *Lucina*, *Cuspidaria*, and *Papyridea*.

Area 2: The upper end of the bay is a mangrove swamp which gives way to large expanses of sand flats at low tide. The drainage channels and the mangrove roots yield *Modulus*, *Cerithium*, and *Nassarius*. The sand area hosts *Turritella*, *Chione*, *Fusinus*, and *Conus*. As one proceeds down the sides of the estero toward the mouth, the sand gives way to turnable rocks where *Crassispira*, *Epitonium*, *Anachis*, *Cypraea*, and *Lima* are taken. In the channel, corals and gorgonians and the respective predators which feed on them may be found. Dredging is not practical

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because the bottom is coarse, unproductive gravel which clogs the dredge with dead weight.

Area 3: There are two headlands in this area which provide fine diving. The rest of the area must be dredged because the depth ranges from 15 to 30 fathoms. The bottom varies from rocky bars to sand and fine silty mud. *Ocenebra perita*, *Niso splendidula*, *Pterynotus pinniger*, and *Crassispira excentrica* have been taken.

Area 4: This area includes Estero Soldado whose shoreline is bounded by mangroves. At low tide *Thais kiosquiformis*, *Neosimnia*, and *Cassis centiquadrata* may be taken. The offshore area is dotted with several small islands. Around these one may dredge *Semele junonia*, *Clathrodrillia dichroa*, *Typhis grandis*, and *Corbula speciosa* in about 12 fathoms.

Area 5: Bacochibampo Bay has a rocky coastline on the north and south. This provides good areas for skindiving where *Terebra*, *Neosimnia*, and *Cypraea* have been taken. A long sand beach forms the head of the bay on the east. Collecting is not very rewarding here but *Muricanthus nigrinus* has been taken on the beach recently. Punta Colorado forms the south shore of the bay. Medium-size rocks covered with much plant growth abound here. On this vegetation are found *Trivia solandri*, *Jenneria pustulata*, *Cypraea*, and *Calliostoma*. *Neosimnia* and *Cyphoma* may be taken on the gorgonians at the far point on a very low tide.

Area 6: The shore is rock-strewn and difficult to reach except over a dirt road leading from behind the Cortez Hotel two miles to Saladita Bay. On shore may be taken *Mitra tristis* and *Ocenebra parva*. Diving one may collect at from 10 to 30 feet *Cerithium uncinatum* and *Cypraea isabellamexicana*. As the shoreline leads southwest toward Cabo Haro the cliffs become more precipitous, making shore collecting more difficult. Off shore, the water becomes deeper, necessitating heavier dredging equipment.

Area 7: The inner harbor of Guaymas is a busy port but at high tide the sea fills brackish ponds where mangroves grow. At the roots of *Salicornia* plants are *Melampus*. The south shore of the harbor is rocky and provides habitats for numerous *Muricopsis*, *Crepidula*, and *Acmaea*.

Area 8: This is a back bay area composed mainly of mud flats. The northwest side is a rubble-strewn beach where *Cymatium gibbosum* and *Calliostoma leanum* may be taken. *Semele flavescens* may be dug from the rubble while *Chione fluctifraga* is in the mud. A long sand bar is exposed at extreme low tide where *Tegula rubroflammulata* may be found hidden inside dead valves of the larger clams.

Area 9: Playa Cachorit is a long sand beach which fronts directly on the Gulf. This is an area for *Turritella*, *Chione*,

Pitar, while *Petricola parallela* and *Pholas chiloensis* may be dug from the hard mud reefs exposed at low tides. Rare deep water forms have been taken by people who have walked along this beach after a storm.

ACKNOWLEDGMENTS

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A special word of appreciation is due to Dr. S. Stillman Berry who not only offered his own extensive collection for inclusion in the list, but also gave many hours to checking and verifying the identification of doubtful specimens.

SYSTEMATIC ACCOUNT

In this list the following format is adopted:

1. The species number given in KEEN (1958) and the scientific name. Species listed without a number are not included in that reference.
2. Range extensions marked with an asterisk preceding the name of the species; the most northerly previously recorded place of occurrence, according to KEEN (*op. cit.*) is listed.
3. The habitat of the specimen(s) is given, such as: "sand beach", "intertidally, under rocks", or "sand and broken shell bottom".
4. Relative abundance or rarity is indicated by the terms "common", "uncommon", or "rare". It should be remembered that these terms are subject to the conditions under which each collector finds his specimens.
5. The following individuals have made their collections available and are designated in the list by initials:

Dr. S. Stillman Berry	B
Helen and Joseph DuShane	D
Dr. Homer King	K
Dr. James H. McLean	M
Forrest and Roy Poorman	P
Santa Barbara Museum of Natural History	SBM
Gale Sphon	S

PELECYPODA

- 1 *Nucula declivis* HINDS, 1843. Rare (3, 6, 9), dredged 15-17 fathoms rock and shell bottom; diving 10 m; beach (B, M, P).
- 2 *Nucula exigua* SOWERBY, 1833. Rare (3), dredged 17 fathoms on rock and broken shell bottom (P).
- 5 *Nuculana costellata* (SOWERBY, 1833). Common (3, 4, 5, 6), dredged 10-100 fathoms broken shell and rock bottom (D, P, S).
- 6 *Nuculana marella* HERTLEIN, HANNA & STRONG, 1940. Rare (6), dredged 45-100 fathoms on broken shell bottom (B).
- 9* *Nuculana eburnea* (SOWERBY, 1833). Rare (6), dredged 15-25 fathoms on broken shell and rock bottom; El Salvador (D).
- 10 *Nuculana elenensis* (SOWERBY, 1833). Common (3, 5, 6), dredged 10-100 fathoms on broken shell and rock bottom (D, SBM, S).
- 11* *Nuculana fastigata* KEEN, 1958. Uncommon (6), dredged 15-25 fathoms on broken shell and rock bottom; Acapulco (D, S).
- 12 *Nuculana impar* (PILSBRY & LOWE, 1932). Common (3, 6), dredged 15-40 fathoms on broken shell and rock bottom (B, D, K, P).
- 13 *Nuculana laeviradius* (PILSBRY & LOWE, 1932). Common (3, 4, 6), dredged 10-25 fathoms on broken shell and rock bottom (D, P, S).
- 16* *Nuculana acrita* (DALL, 1908). Rare (3, 4), dredged 15-17 fathoms on rock and shell bottom; Panama (P).
- 20* *Nuculana hindsii* (HANLEY, 1860). Rare (3), dredged 15 fathoms; Costa Rica (B).
- 26 *Adrana exoptata* (PILSBRY & LOWE, 1932). Rare (7), dredged (B).
- 27 *Adrana penascoensis* (LOWE, 1935). Uncommon (3, 4), dredged 10-15 fathoms in silty mud (P).
- 36 *Arca mutabilis* (SOWERBY, 1833). Uncommon (4), inlet to estero, Baco-chibampo Bay (B, P).
- 37 *Arca pacifica* (SOWERBY, 1833). Uncommon (3, 4, 6), dredged 20 fathoms on broken rock bottom (B, P, SBM).
- 39 *Barbatia bailyi* (BARTSCH, 1931). Common (2), intertidal around rocks (P).
- 40 *Barbatia gradata* (BRODERIP & SOWERBY, 1829). Uncommon (2), intertidal around rocks; diving at 3-7 meters (M, P).
- 41 *Barbatia rostrae* BERRY, 1954. Common (2, 6), intertidal under rocks (P, SBM).
- 43 *Barbatia reeveana* (ORBIGNY, 1846). Intertidal under rocks (2), (B, P).
- 44 *Barbatia illota* (SOWERBY, 1833). Dredged 10 fathoms on broken shell and rock bottom; diving at 3-7 meters (4), (M, P).
- 46 *Arcopsis solida* (SOWERBY, 1833). Common (2, 3, 4, 6), dredged 17 fathoms on broken shell and rock bottom (B, D, M, P, SBM).
- 48 *Anadara mazatlanica* (HERTLEIN & STRONG, 1943). Dredged 20-40 fms. (6), (B).
- 55 *Anadara perlabiata* (GRANT & GALE, 1931). Common (4, 6), dredged 15-25 fms. and shore collected in estero (B, D).
- 56 *Anadara grandis* (BRODERIP & SOWERBY, 1829). Uncommon (2, 4), (P, SBM).
- 57 *Anadara multicostata* (SOWERBY, 1833). Common (1, 2, 3, 4, 5, 6), dredged 6-100 fms. varied bottoms; shore collected low tide, sand bars, quiet estero waters (D, K, M, P, S).
- 58 *Anadara aviculaeformis* (NYST, 1844). Rare (6), (S).
- 59 *Anadara biangulata* (SOWERBY, 1833). Uncommon (4), low tide, sand bars in estero (D).
- 60* *Anadara cepoides* (REEVE, 1844). Rare (1, 3, 4, 6), dredged 10-25 fms. broken shell and rock bottom; Cerralvo Island (P, S).
- 61 *Anadara concinna* (SOWERBY, 1833). Dredged 15 to 100 fms. (6), (D, S).
- 65 *Anadara reinharti* (LOWE, 1935). Dredged 10-17 fms. rock and broken shell bottom (3, 4, 6), (D, P, S). *Anadara hyphalopilema* CAMPBELL, 1962. Dredged 40 fms. (6), type locality (B).
- 66 *Lunarca brevifrons* (SOWERBY, 1833). Uncommon (3), dredged 10 fms. on broken shell and rock bottom (P).
- 74 *Glycymeris gigantea* (REEVE, 1843). Valves dredged 10 fms. and beach valves (1, 9), (B, P).
- 75 *Glycymeris maculata* (BRODERIP, 1832). Common (1, 4, 5), dredged 10-15 fms. on broken shell and rock bottom (D, K, P, SBM).
- 76 *Glycymeris multicostata* (SOWERBY, 1833). Uncommon (3, 5, 6), dredged 17 fms. on broken shell and rock bottom; diving at 3-7 meters (D, K, M).
- 77* *Glycymeris tessellata* (SOWERBY, 1833). Uncommon (1, 3, 4, 6), dredged 10-40 fms. broken shell and rock bottom; Manzanillo (K, P, S).
- 80 *Brachidontes multififormis* (CARPENTER, 1855). Common (4, 5, 6), intertidal around rocks (B, D, SBM).
- 83 *Hormomya adamsiana* (DUNKER, 1857). Intertidal on rocks (6, 7), (SBM).
- 84* *Mytella falcata* (ORBIGNY, 1846). Intertidal among rocks (8); Petatlan Bay, Guerrero, Mexico (B).
- 85* *Mytella guyanensis* (LAMARCK, 1819). Uncommon (2, 3, 4), dredged 17 fms. on rock bottom; southern

- Mexico (B, D, P, S).
- 87 *Septifer zeteki* HERTLEIN & STRONG, 1946. Dredged 17 fms. on broken shell and rock bottom; diving 3-7 meters (3, 6), (M, P).
- 88 *Crenella divaricata* (ORBIGNY, 1853). Rare (3), dredged 17 fms. on broken shell and rock bottom (D, P).
- 90 *Lithophaga aristata* (DILLWYN, 1817). Common (2, 6), dredged 5 fms. in coral base and in *Spondylus calcifer* (B, D, M, P, SBM).
- 92* *Lithophaga calyculata* (CARPENTER, 1856). Intertidal in estero (2); southern Gulf of California (B).
- 95 *Lithophaga spatiosa* (CARPENTER, 1856). Dredged 10-15 fms. (5), (B, K).
- 99* *Gregariella denticulata* (DALL, 1871). Rare (3), dredged 17 fms. on broken shell and rock bottom; Acapulco (P).
- 101 *Modiolus capax* (CONRAD, 1837). Common (2, 6), intertidal on rocks; dredged 100 fms. (D, M, P).
- 102* *Modiolus eiseni* STRONG & HERTLEIN, 1937. Rare (5), dredged 10 fms. silty bottom; Outer Gorda Bank, Gulf of California (S).
- 104* *Amygdalum americanum* SOOT-RYEN, 1955. Rare (5), dredged 15 fms. on silty mud; Tenacatita Bay (P).
- 106 *Lioberus salvadoricus* (HERTLEIN & STRONG, 1946). Uncommon (3, 4, 6), dredged 15 fms. sand and shell bottom (D, P).
- 107 *Pteria sterna* (GOULD, 1851). Uncommon (2, 4, 6), intertidal under rocks; dredged 15-25 fms. broken shell and rock bottom (B, D, M, P).
- 108 *Pinctada mazatlanica* (HANLEY, 1856). Uncommon (3, 6), intertidal on rocks (D, M, P, SBM).
- 111* *Pinna rugosa* SOWERBY, 1835. Uncommon (2, 8), low tide among rocks and gravel; tip of Lower California (B, D, SBM).
- 113 *Atrina tuberculosa* (SOWERBY, 1835). In mud and silt (8), (B).
- 115 *Isognomon chemnitzianus* (ORBIGNY, 1853). Common (2, 4, 5, 6), intertidal attached to rocks (D, K, M, P, SBM).
- 117 *Ostrea angelica* ROCHEBRUNE, 1895. Common (2, 4), dredged 17 fms. on broken shell and rock bottom (D, M, P).
- 119 *Ostrea conchaphila* CARPENTER, 1857. Uncommon (6), intertidal attached to rocks (SBM).
- 120 *Ostrea corteziensis* HERTLEIN, 1951. Uncommon (4), (K).
- 123 *Ostrea megodon* HANLEY, 1846. Uncommon (3, 6), dredged 90-100 fms. broken shell bottom (B, D, K, P).
- 124 *Ostrea palmula* CARPENTER, 1857. Common (2, 4), in estero (B, S).
- 125* *Pecten sericeus* HINDS, 1845. Uncommon (6), dredged 15-90 fms. rubble bottom; southern Gulf of California (B, D, K, S).
- 126 *Pecten vogdesi* ARNOLD, 1906. Common (3, 4, 5, 6), dredged 10-100 fms. on broken shell and rock bottom; in estero (B, D, K, M, P, S, SBM).
- 127* *Aequipecten euterpes* (BERRY, 1957). Rare (6), dredged 50-100 fms. broken shell bottom; Acapulco, Mexico (D).
- 129 *Aequipecten tumbezensis* (ORBIGNY, 1846). Uncommon (5, 6), dredged 15-20 fms. (B, K).
- 130* *Aequipecten velero* (HERTLEIN, 1935). Rare (4), dredged 15 fms. on broken shell and rock bottom; Mazatlan (P).
- 132 *Aequipecten circularis* (SOWERBY, 1835). Common (2, 3, 5, 6), dredged 7-100 fms. on broken shell and rock bottom; diving 3-7 meters; in esteros intertidally (B, D, K, M, P, S).
- 133 *Chlamys lowei* (HERTLEIN, 1935). Common (3, 4, 6), dredged 15-100 fms. broken shell and rock bottom (D, P, S).
- 135 *Cyclopecten pernomus* (HERTLEIN, 1935). Common (2, 3, 4, 5), dredged 7-17 fms. (D, K, P, SBM).
- 137 *Lyropecten subnodosus* (SOWERBY, 1835). Uncommon (3, 4), juveniles dredged 17 fms. broken shell and rock bottom; diving 3-7 meters (dead specimen); in estero (B, D, M, P).
- 140 *Lima tetrica* GOULD, 1851. Common (2, 3, 4, 6), dredged 15 fms. broken shell and rock bottom; under rocks and around and on mangrove roots; diving 3-7 meters (D, M, P, SBM).
- 142 *Lima orbignyi* LAMY, 1930. Common (3, 4), dredged 15 fms. broken shell and rock bottom (P).
- 143 *Lima similaris* DALL, 1908. Rare (2, 3), dredged 15 fms. broken shell and rock bottom, valves only (D, P).
- 144 *Lima pacifica* ORBIGNY, 1846. Uncommon (2), under rocks, intertidally (D, M).
- 146 *Spondylus calcifer* CARPENTER, 1857. Common (1, 3, 5), attached to rocks, low tide; diving 3-7 meters (B, D, M, P).
- Spondylus ursipes* BERRY, 1959. Intertidal (3), (B).
- 147 *Plicatula anomioides* KEEN, 1958. Attached to rocks, low tide (5), type locality (B, D).
- 150 *Plicatula spondylopsis* ROCHEBRUNE, 1895. Attached to rocks (4), (K).
- 151 *Anomia adamas* GRAY, 1850. Common (2, 7, 8), attached to rocks, low tide (B, D, M, P, SBM).
- 152 *Anomia peruviana* ORBIGNY, 1846. Common (5, 6),

- dredged 40 fms.; intertidal on rocks (D, K, S).
- 155 *Placunanomia cumingii* BRODERIP, 1832. Rare (3), dredged 17-40 fms. broken shell and rock bottom (B, P).
- 157 *Crassatella digueti* LAMY, 1917. Uncommon (3, 5, 6), dredged 17-25 fms. broken shell and rock bottom (D, M, P, S, SBM).
- 158 *Crassatella gibbosa* SOWERBY, 1832. Uncommon (2, 3, 5, 6), dredged 10-100 fms. broken shell and rock bottom (D, K, P, S, SBM).
- 159 *Crassinella pacifica* (C. B. ADAMS, 1852). Common (3, 4), dredged 15 fms. broken shell and rock bottom (D, P).
- 162 *Cardita affinis* SOWERBY, 1833. Common (2, 4, 6), intertidal under rocks (B, K, M, P, SBM).
- 163 *Cardita crassicostata* (SOWERBY, 1825). Rare (1, 3), dredged 10-17 fms. broken shell and rock bottom (P).
- 165 *Cardita laticostata* SOWERBY, 1833. Common (7, 8, 9), low tide in muddy sand (B, D, K, S).
- 166 *Cardita megastrophia* (GRAY, 1825). Uncommon (1, 3, 4, 6), dredged 10-25 fms. broken shell and rock bottom (B, P, S).
Galeomma mexicanum BERRY, 1959. Rare (1), dredged 10 fms. rock and gravel bottom, valve only (P).
Thyasira excavata DALL, 1901. Rare (1), dredged 10 fms. gravel and silt bottom, valve only (P).
- 184 *Lucina cancellaris* PHILIPPI, 1846. Uncommon (3, 5, 6), dredged 15-100 fms. broken shell and rock bottom (D, K, P, S).
- 187 *Lucina prolongata* CARPENTER, 1857. Rare (3), dredged 17 fms. broken shell and rock bottom, valves only (P).
- 188 *Lucina excavata* CARPENTER, 1857. Dredged 10-40 fms. broken shell and rock bottom (1, 6), (B, P).
- 189 *Lucina* cf. *L. fenestrata* HINDS, 1845. Dredged 20-30 fms. (7), (P).
- 190 *Lucina liana* (PILSBRY, 1931). Uncommon (3, 4, 6), dredged 15-100 fms. broken shell and rock bottom (D, P, S).
- 192 *Lucina approximata* (DALL, 1901). Uncommon (7), dredged 7 - 20 fms. silty bottom (K).
- 194 *Lucina leucocymoides* (LOWE, 1935). Dredged 10 fms. (1), valves only (P).
- 195 *Lucina undatoides* HERTLEIN & STRONG, 1945. Rare (1, 3, 4), dredged 10-17 fms. broken shell and rock bottom (P).
- 196 *Anodontia edentuloides* (VERRILL, 1870). Common (2, 3, 5, 6), dredged 10-100 fms. broken shell and rubble bottom (D, K, P, S, SBM).
- 200 *Codakia distinguenda* (TRYON, 1872). Common (6, 9), diving 3-7 m; sand beach extreme low tide (D, M, P, SBM).
- 201 *Ctena chiquita* (DALL, 1901). Common (3, 4, 6, 8), intertidal on sand bars; dredged 10-17 fms. broken shell and rock bottom (D, P, SBM).
- 202 *Ctena clarionensis* HERTLEIN & STRONG, 1946. Rare (3, 6), dredged 17 fms. broken shell and rock bottom (P, SBM).
- 204* *Ctena galapagana* (DALL, 1901). Rare (3), dredged 15-17 fms. broken shell bottom; Nicaragua (D, P).
- 205 *Ctena mexicana* (DALL, 1901). Uncommon (2, 3, 4, 6, 9), dredged 7-20 fms. broken shell and rock bottom; intertidal sand beach (D, K, M, P, SBM).
- 206 *Divalinga eburnea* (REEVE, 1850). Uncommon (3, 4, 6), dredged 10-100 fms. broken shell and rubble bottom (D, P).
- 208 *Diplodonta inezensis* (HERTLEIN & STRONG, 1947). Rare (3), dredged 17 fms. broken shell and rock bottom (P).
- 210 *Diplodonta subquadrata* CARPENTER, 1856. Common (2, 3, 4, 6), dredged 10-50 fms. broken shell bottom (D, K, P, S, SBM).
- 214 *Diplodonta semirugosa* DALL, 1899. Rare (3, 4), dredged 10-17 fms. broken shell bottom (P).
- 215 *Erycina colpoica* DALL, 1913. Rare (5), dredged 15 fms. silt bottom (SBM).
Cymatinoa electilis (BERRY, 1963). Buried in muddy sand under rocks 10 m below surface, SHASKY, 1964 (6).
- 216 *Aligena cokeri* DALL, 1909. Rare (1, 3), dredged 10-20 fms., valves only (P).
- 218 *Basterotia peninsularis* JORDAN, 1936. Dredged 17 fms. rock and gravel bottom, valves only (1), (P).
- 221 *Ensitellops hertleini* EMERSON & PUFFER, 1957. Rare (5), dredged 15 fms. silt bottom (SBM).
- 231 *Mysella compressa* (DALL, 1913). Intertidal among rocks and sand (5), (B).
- 236 *Solecardia eburnea* CONRAD, 1849. Uncommon (1, 5), diving 3-7 m; intertidal on sand beach (D, M).
- 237 "*Sportella*" *stearnsii* DALL, 1891. Rare (4), dredged 10-15 fms. broken shell bottom (P).
- 238 *Chama buddiana* C. B. ADAMS, 1852. Common (2, 3, 5, 6), intertidal attached to rocks; dredged 17 fms. (B, D, M, P, SBM).
- 240a *Chama frondosa mexicana* CARPENTER, 1857. Rare (2, 5), intertidal attached to rocks (B, P).
- 241 *Chama sordida* BRODERIP, 1835. Uncommon (3, 6), dredged 17-25 fms. broken shell and rock bottom (B, D, P).
- 242 *Chama squamuligera* PILSBRY & LOWE, 1932. Un-

- common (2, 4, 6, 8), intertidal on rocks; dredged 100 fms. rubble bottom (D, K, P, SBM).
- 244 *Arcinella californica* (DALL, 1903). Uncommon (3, 5, 6), dredged 10-20 fms. silt and broken shell bottom (B, P, SBM).
- 248 *Pseudochama saavedrai* HERTLEIN & STRONG, 1946. Rare (3, 6), dredged 17 fms. (B, P).
- 249* *Trachycardium consors* (SOWERBY, 1833). Rare (1, 3, 4, 6), dredged 7-45 fms.; diving 3-7 m; southern Gulf of California (K, M, P).
- 251 *Trachycardium senticosum* (SOWERBY, 1833). Uncommon (2, 3), intertidal on sand bars; dredged 17 fms., valves only (D, P).
- 252 *Trachycardium panamense* (SOWERBY, 1833). Common (2, 4, 5), intertidal, sand beach (B, D, P, SBM).
- 254 *Trachycardium belcheri* (BRODERIP & SOWERBY, 1829). Common (3, 5, 6), dredged 10-100 fms. silt and rubble bottom (B, D, K, P, S, SBM).
- 255 *Papyridea aspersa* (SOWERBY, 1833). Common (1, 2, 3, 4, 5), intertidal on sand beaches; dredged 6-20 fms. gravel, rock and broken shell bottoms (D, K, M, P).
- 256 *Trigoniocardia granifera* (BRODERIP & SOWERBY, 1829). Uncommon (3, 4, 5, 6), dredged 6-100 fms. rubble, broken shell and rock bottoms (D, K, P, S, SBM).
- 258 *Trigoniocardia biangulata* (BRODERIP & SOWERBY, 1829). Common (2, 3, 4, 5, 6), intertidal, sand beach; dredged 6-100 fms. rubble, broken shell and rock bottoms; diving 3-7 m; sand beach, low tide (D, K, M, P, S, SBM).
- 261 *Laevicardium clarionense* (HERTLEIN & STRONG, 1947). Uncommon (3, 4, 5, 6), dredged 10-25 fms. silty bottom (B, P, S).
- 262 *Laevicardium elatum* (SOWERBY, 1833). Uncommon (2, 4, 5, 6), dredged 10 fms. silty bottom (B, S, SBM).
- 263 *Laevicardium elenense* (SOWERBY, 1840 [?1841]). Common (3, 4, 5, 6, 9), dredged 7-100 fms. silt, rubble, and broken shell bottoms; diving 3-7 m; intertidal sand beach (B, K, M, P, SBM).
- 264 *Lophocardium annettae* (DALL, 1889). Uncommon (3, 5, 6), dredged 10-25 fms. silt bottom (B, K, P, S, SBM).
- 266 *Nemocardium pazianum* (DALL, 1916). Uncommon (2, 3, 5, 6), dredged 10-100 fms. broken shell and rock bottom; intertidal, silty beach (D, K, P, S).
- 267 *Periglypta multicostata* (SOWERBY, 1835). Uncommon (5, 6, 8), dredged 20-40 fms.; intertidal among rocks in sand; diving 2-7 m (B, D, M, P).
- 268 *Ventricolaria isocardia* (VERRILL, 1870). Uncommon (2, 3, 4), dredged 10-17 fms. broken shell and rock bottom; intertidal among rocks (D, P).
- 270* *Gouldia californica* DALL, 1917. Common (2, 3, 6), dredged 17 fms. broken shell and rock bottom; La Paz (D, P, S).
- 273 *Tivela byronensis* (GRAY, 1838). Common (4, 6, 9), intertidal sand beach (B, D, K, P, S).
- 281 *Transennella sororcula* PILSBRY & LOWE, 1932. Uncommon (1, 3, 4), dredged 17 fms. broken shell and rock bottom (B, P).
- 282 *Transennella tantilla* (GOULD, 1853). Rare (6), (SBM).
- 285 *Pitar fluctuatus* (SOWERBY, 1851). Rare (3, 4), dredged 10-17 fms. gravel bottom (P).
- 286 *Pitar newcombianus* (GABB, 1865). Common (1, 6), dredged 10-25 fms. broken shell and sand bottom; diving 3-7 m (D, K, M, P).
- 287* *Pitar* sp., possibly new, labelled in collections as *P. perfragilis* (not the *P. perfragilis* of PILSBRY & LOWE, 1932, *teste* KEEN, 1965, after examination of the holotype). Uncommon (3, 6), dredged 15-25 fms. broken shell bottom; Nicaragua (B, D, K, P, S).
- 290* *Pitar aletes* HERTLEIN & STRONG, 1948. Rare (3), dredged 17 fms. broken shell and rock bottom; southern Gulf of California (B, P).
- 292 *Pitar lupanaria* (LESSON, 1830). Low tide, sand beach (9), (B, D, P, S, SBM).
- 293 *Pitar roseus* (BRODERIP & SOWERBY, 1829). Rare (6), dredged 15-20 fms. (B, D).
- 296 *Pitar concinnus* (SOWERBY, 1835). Uncommon (1, 4, 9), dredged 10 fms. broken shell and rock bottom; intertidal sand beach (P).
- 299 *Pitar catharius* (DALL, 1902). Rare (6), dredged 45-100 fms. rubble bottom (S).
- * *Pitar helenae* OLSSON, 1961. Rare (3), dredged 17 fms. broken shell and rock bottom; Panama (P).
- 302 *Megapitaria aurantiaca* (SOWERBY, 1831). Rare (3), dredged 17 fms. broken shell and rock bottom (P).
- 303 *Megapitaria squalida* (SOWERBY, 1835). Common (1, 2, 3, 4, 5, 6), dredged 10-100 fms. varied bottoms; diving 3-7 m; intertidal sand beach (B, D, K, M, P, S, SBM).
- 305 *Dosinia dunkeri* (PHILIPPI, 1844). Common (2, 3, 4), dredged 17 fms. broken shell and rock bottom (B, D, K, M, P, SBM).
- 306 *Dosinia ponderosa* (GRAY, 1838). Rare (4), in estero (B).
- 307a* *Cyclinella kroeyeri ulloana* HERTLEIN & STRONG, 1948. Rare (3), dredged 17 fms. broken shell and rock bottom; southern Gulf of California (P).

- 309 *Cyclinella singleyi* DALL, 1902. Rare (3, 6), dredged 7-25 fms. (K, S).
- 310 *Cyclinella subquadrata* (HANLEY, 1845). Rare (3, 6, 9), dredged shell and gravel bottom; intertidal sand beach (B, D, S).
- 318 *Chione californiensis* (BRODERIP, 1835). Common (2, 4, 5, 9), in sandy estero, low tide (B, D, K, M, P, SBM).
- 319 *Chione compta* (BRODERIP, 1835). Common (2, 3, 4, 5, 6, 8, 9), dredged 15 fms. broken shell and rock bottom; intertidal sand beach (B, D, K, P, SBM).
- 320* *Chione guatulcoensis* HERTLEIN & STRONG, 1948. Rare (9), intertidal sand beach; Port Guatulco, Mexico (P).
- 321 *Chione undatella* (SOWERBY, 1835). Common (2, 4, 6), muddy estero, low tide (B, D, K, M, P, S, SBM).
- 323 *Chione fluctifraga* (SOWERBY, 1853). Uncommon (2, 9), intertidal, sand beach (D, S, SBM).
- 324 *Chione amathusia* (PHILIPPI, 1844). Sand beach, low tide (4), (K).
- 326 *Chione gnidia* (BRODERIP & SOWERBY, 1829). Common (4, 8), intertidal, muddy estero (B, D, P, S).
- 328 *Chione purpurisata* DALL, 1902. Intertidal on sand flats (2), (B).
- 329 *Chione traftoni* PILSBRY & OLSSON, 1941. Beach valves (9), (P).
- 330 *Chione kellestii* (HINDS, 1845). Uncommon (6), dredged 15-100 fms. rubble bottom; intertidal among rocks (B, D, K, P, S).
- 331 *Chione mariae* (ORBIGNY, 1845). Common (3, 4, 5, 6), dredged 7-100 fms. rubble, broken shell and rock bottoms (B, D, K, P, S).
- 335 *Chione picta* WILLET, 1944. Uncommon (3, 4, 5), dredged 10-17 fms. broken shell and rock bottom (B, P).
- 336* *Anomalocardia subimbricata* (SOWERBY, 1835). Rare (5), in estero; La Paz (SBM).
- 337* *Anomalocardia tumens* (VERRILL, 1870). Uncommon (2, 5, 6), intertidal under rocks; southern Gulf of California (B, M, P, SBM).
- 338 *Anomalocardia subrugosa* (WOOD, 1828). Uncommon (2, 4, 9), muddy esteros (B, D, K, P).
- 340 *Protothaca grata* (SAY, 1831). Uncommon (2, 4, 9), mud flats (B, M, P, SBM).
- 341 *Protothaca asperrima* (SOWERBY, 1835). Intertidal in estero (4), (B).
- 348 *Petricola parallela* PILSBRY & LOWE, 1932. Uncommon (9), in hard mud flats (B, K, P).
- 355 *Macra dolabriformis* (CONRAD, 1867). Uncommon (4, 5), sand beach (D, SBM).
- 358 *Macra californica* CONRAD, 1837. Uncommon (6), dredged 45 fms. broken shell bottom (K, S).
- 359* *Macra fonsecana* HERTLEIN & STRONG, 1950. Dredged 15 fms. valves only (4); Nicaragua (P).
- 363 *Anatina cyprinus* (WOOD, 1828). Dredged 15-25 fms., valves only (6), (P).
- 364 *Anatina undulata* (GOULD, 1851). Common (9), sand beach, valves only (B, D, P, SBM).
- 371* *Mulinia pallida* (BRODERIP & SOWERBY, 1829). Rare (4), in estero; Guatemala (B).
- 373 *Tellina pacifica* DALL 1900. Uncommon (4, 6), dredged 10-100 fms. rubble, broken shell and rock bottoms (K, P, S).
- 376 *Tellina inaequistriata* DONOVAN, 1802. Uncommon (1, 3, 6), dredged 10-100 fms. rubble, broken shell and rock bottoms (K, P).
- 384 *Tellina simulans* C. B. ADAMS, 1852. Uncommon (3, 5, 6), dredged 10-100 fms. rubble, broken shell and rock bottom (K, P).
- 386 *Tellina lyricea* PILSBRY & LOWE, 1932. Common (3, 6), dredged 17-100 fms. rubble, broken shell and rock bottoms (B, D, P, S).
- 390 *Tellina proclivis* HERTLEIN & STRONG, 1949. Common (5, 6), dredged 10-100 fms. rubble and silt bottom (B, D, K, S).
- 392 *Tellina amianta* DALL, 1900. Uncommon (4, 6), dredged 15-40 fms. (K, P).
- 393 *Tellina arenica* HERTLEIN & STRONG, 1949. Uncommon (3, 4), dredged 10-17 fms. rock and silt bottom (P).
- 397 *Tellina felix* HANLEY, 1844. Uncommon (2), (D, SBM).
- 398 *Tellina guaymasensis* PILSBRY & LOWE, 1932. Dredged in harbor (7), (B).
- 401* *Tellina paziana* DALL, 1900. Common (3, 4, 5, 6), dredged 10-100 fms. silt, rubble, broken shell and rock bottoms; La Paz (D, K, P, S).
- 403 *Tellina recurvata* HERTLEIN & STRONG, 1949. Uncommon (3, 4, 6), dredged 15-40 fms. broken shell and rock bottom (K, P).
- 408 *Tellina pristiphora* DALL, 1900. Uncommon (6), dredged 20-100 fms. rubble, broken shell and rock bottoms (B, D, K, S).
- 413 *Tellina virgo* HANLEY, 1844. Intertidal in sand (4), (B).
- 414 *Tellina ochracea* CARPENTER, 1864. Uncommon (6), sand beach (SBM).
- 416 *Tellina cumingii* HANLEY, 1844. Rare (3, 5), dredged 15-17 fms. silt, broken shell and rock bottom (P).
- 418 *Tellina purpurea* BRODERIP & SOWERBY, 1829. Un-

- common (3, 4, 5), dredged 10-17 fms. broken shell and rock bottom; sand beach low tide (K, P).
- 423 *Apolymetis cognata clarki* DURHAM, 1950. Common (3, 5, 6), dredged 17-100 fms. rubble, broken shell and rock bottom; diving 3-7 m (B, D, M, P, SBM).
- 425 *Macoma undulata* (HANLEY, 1844). Uncommon (3, 4, 5, 6), dredged 10-40 fms. silt, broken shell and rock bottoms (K, P, SBM).
- 426 *Macoma medioamericana* OLSSON, 1942. Rare (6), dredged 45-100 fms. rubble, broken shell bottom (K, S).
- 428 *Macoma elytrum* KEEN, 1958. Rare (3, 6), dredged 17-100 fms. rubble, broken shell and rock bottoms (D, P).
- 432 *Macoma* cf. *M. lamproleuca* (PILSBRY & LOWE, 1932). Dredged 45-100 fms. (6), (S).
- 433 *Macoma siliqua* (C. B. ADAMS, 1852). Common (3, 4, 5, 6), dredged 17-100 fms. silt, rubble, and broken shell and rock bottoms (D, K, P, S).
- 433a *Macoma panamensis spectri* HERTLEIN & STRONG, 1949. Uncommon (6), dredged 100 fms., rubble bottom (D).
- 434 *Macoma aurora* (HANLEY, 1844). Uncommon (3, 4), dredged 10-17 fms. broken shell and rock bottom (D, P).
- 436 *Macoma pacis* PILSBRY & LOWE, 1932. Common (4, 6, 9), dredged 40-100 fms. rubble bottom; in estero; sand beach (B, K, P, SBM).
- 437* *Macoma plebeia* (HANLEY, 1844). Sand beach low tide (4); Nicaragua (SBM).
- 438 *Strigilla cicercula* (PHILIPPI, 1846). Common (5, 9), sand beach (D, K, P).
- 439 *Strigilla dichotoma* (PHILIPPI, 1846). Intertidal in sand (4), (B).
- 441* *Strigilla lenticula* PHILIPPI 1846. Rare (6), dredged 100 fms. rubble; Cape San Lucas (S).
- 442 *Tellidora burneti* (BRODERIP & SOWERBY, 1829). Uncommon (2, 4), dredged broken shell and rock bottom; in estero among *Pinna* near mangrove roots (B, D, P, SBM).
- 451 *Donax navicula* HANLEY, 1845. Sand beach low tide (1, 9), (D, P).
- 455 *Donax punctatostriatus* HANLEY, 1843. Common (4, 5, 9), sand beach low tide (B, D, K, P, S, SBM).
- 461 *Sanguinolaria purpurea* DESHAYES, 1855. Beach valves (4), (D).
- 462 *Sanguinolaria tellinoides* A. ADAMS, 1850. Rare (4), beach valves (D, K).
- 466 *Gari regularis* (CARPENTER, 1864). Uncommon (1, 3, 4, 6), dredged 10-100 fms. rubble, broken shell and rock bottom; diving 3-7 m (K, M, P).
- 467 *Heterodonax bimaculatus* (LINNAEUS, 1758). Sand beach (4), (K, S).
- 469 *Solecurtus guaymasensis* LOWE, 1935. Common (3, 4, 5, 6), dredged 5-100 fms. silt, rubble, broken shell and rock bottoms (B, D, K, P, S).
- 470 *Tagelus affinis* (C. B. ADAMS, 1852). Beach specimens (9), (B).
- 471 *Tagelus californianus* (CONRAD, 1837). Uncommon (4, 9), silty mud in estero, sand beach (B, P).
- 474 *Tagelus peruvianus* PILSBRY & OLSSON, 1941. Beach valves (9), (B).
- 475 *Tagelus politus* (CARPENTER, 1857). Common (3, 4, 5, 6), dredged 10-100 fms. rubble, silt, broken shell and rock bottoms (B, D, K, P, S).
- 479* *Semele craneana* HERTLEIN & STRONG, 1949. Uncommon (3, 5), dredged 15-17 fms. broken shell and rock bottom; southern Gulf of California (P).
- 481 *Semele flavescens* (GOULD, 1851). Dug from among rocks at extreme low tide (8), (D).
- 482 *Semele formosa* (SOWERBY, 1832). Sand beach low tide (9), (P).
- 483 *Semele guaymasensis* PILSBRY & LOWE, 1932. Common (1, 2, 4, 5, 6, 9), dredged 10-40 fms. silt, rubble, broken shell and rock bottom (B, D, K, P, S, SBM).
- 485 *Semele jovis* (REEVE, 1853). Uncommon (3, 4, 5), dredged 10-17 fms. broken shell and rock bottom (B, D, P, S).
- 486 *Semele junonia* (VERRILL, 1870). Rare (1, 3, 5), dredged 10-17 fms. broken shell and rock bottom; diving 10 m (M, P).
- 489 *Semele pacifica* DALL, 1915. Common (3, 4, 6), dredged 15-50 fms. (D, P, S, SBM).
- 494 *Semele quentinensis* DALL, 1921. Intertidal on sand flats (2), (P).
- 497 *Semele simplicissima* PILSBRY & LOWE, 1932. Dredged 17 fms. broken shell and rock bottom (3, 6), (B, P).
- 498* *Semele sparsilineata* DALL, 1915. Rare (3, 4), dredged 17 fms. broken shell and rock bottom; Nicaragua (B, P).
- 508 *Cumingia lamellosa* SOWERBY, 1833. Among rocks and sand (5), (B).
- 516 *Solen rosaceus* CARPENTER, 1864. Dredged 3 fms.; on mud flats in drainage channels (2, 9), (D, P).
- 518 *Ensis californicus* DALL, 1899. Dredged 10 fms. silt bottom; intertidal on sand (1, 4), (B, P).
- 522 *Corbula speciosa* REEVE, 1843. Common (1, 3, 4), dredged 10-17 fms. broken shell and rock bottom (B, D, P).

- 523 *Corbula bicarinata* SOWERBY, 1833. Intertidal (3), (B, M).
- 526 *Corbula marmorata* HINDS, 1843. Uncommon (3, 4, 5), dredged 10-17 fms., silt, broken shell and rock bottom (D, K, P, S).
- 527 *Corbula nasuta* SOWERBY, 1833. Uncommon (4), dredged 15 fms. broken shell and rock bottom (P).
- 529 *Corbula obesa* HINDS, 1843. Uncommon (3, 4, 6), dredged 10-40 fms. broken shell and rock bottom (B, P).
- 531 *Corbula porcella* DALL, 1916. Uncommon (4), dredged 15 fms. broken shell and rock bottom (P).
- 532 *Corbula ventricosa* ADAMS & REEVE, 1850. Rare (2, 3), dredged 2-3 fms. sand bottom; mud flats (P).
- 539 *Gastrochaena ovata* SOWERBY, 1834. Rare (5), (SBM).
- 540* *Gastrochaena rugulosa* SOWERBY, 1834. Rare (1, 3), dredged 5 fms., on *Spondylus calcifer*; Galapagos Islands (P).
- 542 *Hiatella arctica* (LINNAEUS, 1767). Nestling in crevices (2), (K).
- 546 *Pholas chiloensis* MOLINA, 1782. In hard mud reef, low tide (9), (P).
- 547 *Barnea subtruncata* (SOWERBY, 1834). In hard mud reef, low tide (9), (K, P).
- 555 *Parapholas calva* (SOWERBY, 1834). Rare (3, 4), intertidal; dredged 17 fms. in rocks (B, P).
- 568* *Pandora uncifera* PILSBRY & LOWE, 1932. Uncommon (3, 4, 5), dredged 10-17 fms. broken shell bottom; Cape San Lucas (P, S).
- 569 *Pandora claviculata* CARPENTER, 1855. Dredged 40 fms. shell bottom (6), (K).
- 576 *Pandora granulata* DALL, 1915. Dredged 15-17 fms. (3, 4), (P).
- 578 *Lyonsia gouldii* DALL, 1915. Dredged 3-15 fms. silty bottom (4, 5, 9), (P, S).
- 579 *Lyonsia inflata* CONRAD, 1837. Dredged 17 fms. broken shell and rock bottom (3), (P).
- 583 *Periploma discus* STEARNS, 1890. Beach specimens (4), (B).
- 585 *Periploma planiusculum* SOWERBY, 1834. Valves only, dredged 15 fms. (4, 9), (B, K, P).
- 588 *Thracia colpoica* DALL, 1915. Beach valves (9), (P).
- 595* *Cyathodonta undulata* CONRAD, 1849. Uncommon (3, 4), dredged 15-17 fms. broken shell and rock bottom; southern Gulf of California (B, P).
- 598 *Cuspidaria dulcis* PILSBRY & LOWE, 1932. Uncommon (3, 4, 5), dredged 7-17 fms. broken shell and rock bottom (D, K, P, S, SBM).
- 599* *Cuspidaria lanieri* STRONG & HERTLEIN, 1937. Rare. (3, 4, 6), dredged 15-100 fms. rubble, broken shell and rock bottom; Cape San Lucas (P, S).
- 601 *Plectodon scaber* CARPENTER, 1864. Dredged 20-100 fms. rubble, silt bottom, valves only (P, S).
- 606 *Solemya valvulus* CARPENTER, 1864. Uncommon (3, 5), dredged 10-17 fms. silty sand and shell bottom (P).

SCAPHOPODA

- 2 *Dentalium inversum* DESHAYES, 1826. (5), projecting from sand (D).
- 3 *Dentalium oerstedii* MÖRCH, 1860. Common (1, 2, 3, 5, 6), dredged 6-40 fms. (D, K, P).
- 5 *Dentalium sectum* DESHAYES, 1826. (2), projecting from sand, extreme low tide (D).
- 6 *Dentalium* cf. *D. semipolatum* BRODERIP & SOWERBY, 1829. Uncommon (3, 4), dredged 10-17 fms. on rock and silt bottom (P).
- 7 *Dentalium splendidum* SOWERBY, 1832. Uncommon (3, 6), dredged 17-60 fms. on rock and gravel bottom (P, S).
- 9 *Dentalium quadrangulare* SOWERBY, 1832. (3, 5), dredged 6-15 fms. (D, K, SBM).
- 10* *Dentalium tesseragonum* SOWERBY, 1832. Common (1, 3, 4), dredged 10-17 fms. on rock and broken shell bottom; Manzanillo (D, P).
- 11 *Cadulus austinclarki* EMERSON, 1951. Rare (3), dredged 17 fms. on rock and gravel bottom (D, P).
- 12 *Cadulus panamensis* PILSBRY & SHARP, 1897. Uncommon (1, 3, 5), dredged 10-20 fms. on sand and rubble bottom (D, P, SBM).

GASTROPODA

- 2 *Acmaea atrata* CARPENTER, 1857. Common (2, 6), upper intertidal zone on rocks (B, K, P, SBM).
- 4 *Acmaea fascicularis* (MENKE, 1851). Uncommon (6), intertidal on rocks (B).
- 7a *Acmaea fayae* HERTLEIN, 1958. Common (2), intertidal on rocks; uncommon diving 6-12 m (D, M, P, S, SBM).
- 10 *Acmaea semirubida* DALL, 1914. Rare (5), low tide under rocks; dredged 5 fms. on dead shells; diving 6 m (B, M, SBM).
- 12 *Acmaea strigatella* CARPENTER, 1857. Common (1, 6, 7), intertidal among rocks; diving 6-12 m (B, M, S, SBM).
- 14 *Acmaea turveri* HERTLEIN & STRONG, 1951. Common (1, 2, 6), intertidal among rocks (B, D, P, S, SBM).
- 16 *Nomaeopelta dalliana* (PILSBRY, 1891). Rare (5, 6), on rocks at mid-tide (K).

- 18 *Nomaeopelta stanfordiana* (BERRY, 1957). Common (6), intertidal among rocks (D, S, SBM).
- 25 *Fissurella* cf. *F. rugosa* SOWERBY, 1835 (wrong illustration in KEEN, 1958). Uncommon (6), intertidal on rocks (M).
Lucapinella eleanorae McLEAN, 1967. Uncommon (1), dredged 20 fms.; type locality (M, P).
- * *Lucapinella milleri* BERRY, 1959. Common (1, 3, 4), on rocks just below low tide; dredged 17 fms. on rock and gravel bottom; Puertecitos, Gulf of California (B, M, P).
- 30 *Diodora alta* (C. B. ADAMS, 1852). Common (2, 3, 4, 6), dredged 17-30 fms. on rock and gravel bottom; diving 6-12 m (K, M, P, SBM).
- 32 *Diodora inaequalis* (SOWERBY, 1835). Uncommon (2, 3, 4, 5, 6), intertidal under rocks; common dredged 7-20 fms. on rock bottom (B, D, K, M, P, S).
- 34 *Diodora saturnalis* (CARPENTER, 1864). Uncommon (2, 3, 6), intertidal under rocks; common dredged 17 fms. on rock and broken shell bottom; diving 6-12 m (M, P, SBM).
- * *Diodora pusilla* BERRY, 1959. Common (1, 3, 4, 5), dredged 10-17 fms. on rock and broken shell bottom; Acapulco, Mexico (D, M, P, SBM).
- 35* *Stromboli beebei* (HERTLEIN & STRONG, 1951). Rare (6), dredged 40-90 fms. on rubble bottom; Gorda Banks, southern part of Gulf of California (B, D, K, S).
- 37 *Hemitoma hermosa* LOWE, 1935. Common (1, 3, 4), dredged 10-30 fms. on rock and gravel bottom (D, P).
- * *Sinezona rimuloides* CARPENTER, 1865. (5), in sand siftings; Mazatlan, Mexico (B).
- 39 *Calliostoma antonii* (KOCH in PHILIPPI, 1843). Rare (1), dredged 10 fms. on rock and gravel bottom (P).
- 41 *Calliostoma eximium* (REEVE, 1843). Uncommon (3, 4, 8, 9), intertidal on weed and sand bars; dredged 17 fms. on rock bottom (B, D, K, M, P, S).
- 42 *Calliostoma leanum* (C. B. ADAMS, 1852). Uncommon (4, 6, 8), among small stones on sand beach; dredged 45-100 fms. (B, D, S).
- 45 *Calliostoma marshalli* LOWE, 1935. Uncommon (1, 3), dredged 10-20 fms. on rock and gravel bottom (P).
- 47 *Calliostoma palmeri* DALL, 1871. Common (6, 7, 9), in rocky rubble at low tide; uncommon dredged 7-40 fms. (B, D, K).
Calliostoma mcleani SHASKY & CAMPBELL, 1964. Uncommon (1, 3, 4), dredged 17 fms. on rock and gravel bottom; diving 15-17m; type locality (D, P).
Turcica coffea GABB, 1865. Rare (6), dredged 50-100 fms. on sand and broken shell bottom (D, K, S).
- 48* *Astele rema* (STRONG, HANNA & HERTLEIN, 1933). (6), under rocks at low tide; Mazatlan (SBM).
- 54 *Tegula mariana* DALL, 1919. Extremely common (1, 2, 5, 6, 8), intertidal under rocks; common diving (B, D, M, P, SBM).
- 57 *Tegula rubroflammulata* (KOCH in PHILIPPI, 1843). Uncommon (1, 6, 7, 8, 9), inside dead shells at low tide (B, D, M, P, SBM).
- 58 *Tegula rugosa* (A. ADAMS, 1853). Common (2, 6), on rocks above splash zone (D, K, M, P, S, SBM).
- 60 *Solariella triplostephanus* DALL, 1910. Rare (1, 3, 4, 6), intertidal among weed on rock; dredged 10-40 fms. on gravel and broken shell bottom (B, K, P, S).
- 64 *Turbo fluctuosus* WOOD, 1828. Common (2, 4, 6, 9), intertidal among rocks (B, D, K, M, P, SBM).
- 68 *Turbo squamiger* REEVE, 1843. Uncommon (1), dredged 10 fms. on rock and gravel bottom; diving 6-12 m (M, P).
- 76 *Astraea unguis* (WOOD, 1828). Common (2, 4, 6), intertidal among rocks; uncommon dredged 45 fms. (B, D, K, M, P, S, SBM).
- * *Homalopoma conceptionensis* LOWE, 1935. Uncommon (3), dredged 17 fms. on rock and gravel bottom; Concepcion Bay, Gulf of California (D, P).
- * *Tricolia cyclostoma* CARPENTER, 1864. Uncommon (4, 5), among rocks at low tide; diving 6-12 m; Cape San Lucas, Lower California (M, SBM).
- * *Tricolia substriata* (CARPENTER, 1864). Uncommon (5), intertidal among rocks and sand; Cape San Lucas, Lower California (B).
- * *Tricolia variegata* (CARPENTER, 1864). Rare (3, 4, 6), on rock in mouth of estero; dredged 17 fms. on broken shell and rock bottom; diving 6-12 m; Cape San Lucas, Lower California (D, M, P).
- 77* *Arene* cf. *A. hindsiana* PILSBRY & LOWE, 1932. Rare (2, 3), intertidal under rocks; dredged 7-20 fms.; Nicaragua (D, K).
- * *Arene rammata* (DALL, 1918). Common (5, 6), intertidal under rocks; diving 6-12 m; Magdalena Bay, Lower California (D, M).
- 81 *Nerita scabricosta* LAMARCK, 1822. Common (2, 4, 5, 6), intertidal on rocks (B, D, K, M, P, SBM).
- 82 *Nerita funiculata* MENKE, 1851. Uncommon (4, 6), intertidal on rocks (D, M, S, SBM).
- 83 *Neritina luteofasciata* MILLER, 1879. Common (2, 4, 6), intertidal under rocks and among mangrove trees (B, D, K, M, P, SBM).
- 85 *Phenacolepas malonei* VANATTA, 1912. Rare (1, 5, 6), intertidal on rocks; dredged 10 fms. on rock bottom (D, P, SBM).

- 86 *Phenacolepas osculans* (C. B. ADAMS, 1852). Rare (2, 6), intertidal on shells and under rocks (P, SBM).
- * *Eulima townsendi* (BARTSCH, 1917). Uncommon (3), dredged 15 fms. on rock and gravel bottom; La Paz, Lower California (B).
Balcis mexicana BARTSCH, 1917. Rare (2, 3), under rocks at extreme low tide; dredged 15-35 fms. on rock and gravel bottom (B, D, P).
- * *Balcis panamensis* (BARTSCH, 1917). Rare (5), intertidal among rocks and sand; Panama (B).
- * *Balcis yod* (CARPENTER, 1857). Rare (5), intertidal among rocks and sand; Mazatlan, Mexico (B).
- 87 *Niso excolpa* BARTSCH, 1917. Uncommon (1, 3, 4, 5, 6), dredged 10-60 fms. on rock and gravel bottom (B, D, K, P, S).
- 88* *Niso interrupta* (SOWERBY, 1834). Rare (6), dredged 20-40 fms.; San Pedro Martir Island, Gulf of California (B).
- 89* *Niso splendidula* (SOWERBY, 1834). Rare (3, 4), dredged 10-20 fms. on rock and gravel bottom; Angel de la Guarda Island, Gulf of California (B, P).
- 91 *Epitonium canna* DALL, 1919. Rare (6), intertidal under rocks (D).
- 98 *Epitonium vivesi* HERTLEIN & STRONG, 1951. Rare (3), dredged 5 fms. on sand bottom (D).
- 100* *Epitonium xantusi* DALL, 1917. Rare (3, 6), dredged 17 fms. on rock and gravel bottom; diving 6-12 m; La Paz (M, P).
- * *Epitonium emydonesus* DALL, 1917. Rare (6), intertidal under rocks; Galápagos Islands (SBM).
- 103 *Epitonium togatum* HERTLEIN & STRONG, 1951. Rare (4), dredged 10 fms. on rock and gravel bottom (dead specimen) (P).
Epitonium pentedesmium BERRY, 1963. Rare (3), dredged 15 fms. on rock and gravel bottom; type locality (B, D, P).
- 107 *Epitonium appressicostatum* DALL, 1917. Rare (1), dredged 10 fms. on gravel bottom (P).
- 108 *Epitonium* cf. *E. barbarinum* DALL, 1919. Uncommon (3, 5), intertidal under rocks; dredged 10 fms. on rock bottom (dead specimens) (P).
- 113* *Epitonium colpoicum* DALL, 1917. Rare (6), intertidal; La Paz, Lower California (D).
- 118* *Epitonium durhamianum* HERTLEIN & STRONG, 1951. Rare (5), under rocks at low tide; Nicaragua (SBM).
- 124 *Epitonium oerstedianum* HERTLEIN & STRONG, 1951. Rare (3, 4, 5), dredged 17 fms. on rock and gravel bottom; diving 6-12 m (B, D, M, P, SBM).
- 135 *Epitonium wurtsbaughi* STRONG & HERTLEIN, 1939. Common (1, 3, 4, 6), dredged 10-60 fms on rock and gravel bottom (B, D, P, SBM).
- 137 *Epitonium carpenteri* (TAPPARONE-CANEFRI, 1876). Rare (6), under rocks at low tide (SBM).
- * *Epitonium replicata* SOWERBY, 1844. Rare (3), dredged 17 fms. on rock and gravel bottom (dead specimen); Galápagos Islands (P).
- 156 *Opalia crenatoides* (CARPENTER, 1864). Rare (6), intertidal under rocks (SBM).
- 157 *Opalia crenimarginata* (DALL, 1917). Rare (3), intertidal under rocks (dead specimen) (B).
- 158* *Opalia diadema* (SOWERBY, 1832). Common (2, 6), intertidal under rocks; Mazatlan (D, P, SBM).
- 159 *Opalia golischi* (BAKER, HANNA & STRONG, 1930). Rare (6), intertidal under rocks (D).
- 161 *Opalia espirita* (BAKER, HANNA & STRONG, 1930). Rare (3), dredged 20 fms. on rock and sand bottom (dead specimen) (P).
- 165 *Opalia retiporosa* CARPENTER, 1864. Rare (3), dredged 10 fms. on gravel bottom (dead specimen) (P).
- 166* *Opalia sanjuanensis* (LOWE, 1932). Rare (1), dredged 10 fms. on gravel bottom; Nicaragua (P).
- 167a *Scalina ferminiana brunneopicta* (DALL, 1908). Uncommon (3, 6), dredged 10-90 fms. on broken shell and gravel bottom (B, D, P).
- * *Scalina billeeana* DUSHANE & BRATCHER, 1965. Rare (6), from sand siftings; Cerralvo Island, Gulf of California (B).
- 168 *Janthina globosa* BLAINVILLE, 1822. (9), beach specimens (B, P).
- 169 *Janthina janthina* (LINNAEUS, 1758). (9), beach specimens (B, P).
- 170 *Janthina prolongata* BLAINVILLE, 1822. (9), beach specimens (B).
- 173 *Littorina aspera* PHILIPPI, 1846. Common (6), on rocks in splash zone (D, M, SBM).
- 174 *Littorina conspersa* PHILIPPI, 1847. Uncommon (2, 6), intertidal on rocks (D, M, P, S).
- 175 *Littorina dubiosa* C. B. ADAMS, 1852. Common (2), on rocks in splash zone (M, P, S).
- 175a *Littorina dubiosa penicillata* CARPENTER, 1864. Common (2, 6), on rocks in splash zone (D, SBM).
- 177 *Littorina pullata* CARPENTER, 1864. Uncommon (2, 6), on rocks in splash zone (P, SBM).
- * *Alvania monserratensis* BAKER, HANNA & STRONG, 1930. (5), in sand siftings; Monserrate Island, Gulf of California (B).
- * *Allcorus deprellus* STRONG, 1938. (6), diving 6-12 m; San Jose Island, Gulf of California (M).

- * *Cyclostremiscus trigonatus* (CARPENTER, 1856). (5), among rocks and sand; Mazatlan, Mexico (B).
- * *Cyclostremiscus major* PILSBRY & OLSSON, 1952. (2, 6), dredged 7-20 fms. on silt and sand bottom; Panama (K, SBM).
- * *Cyclostrema spiciferi* BAKER, HANNA & STRONG, 1938. (5, 6), among rocks and sand; diving 6-12 m; Concepcion Bay, Gulf of California (B, M).
- * *Episcynia nicholsoni* STRONG & HERTLEIN, 1939. Uncommon (3, 4), in mouth of estero; dredged 17 fms. on rock and shell bottom; Panama (B, P).
- * *Macromphalina occidentalis* (BARTSCH, 1907). (1), dredged 10 fms. on rubble bottom; Point Abrejos, Lower California (P).
- * *Macromphalina symmetrica* PILSBRY & OLSSON, 1945. Uncommon (3, 4), dredged 15-17 fms. on rock and gravel bottom; Ecuador (B, P).
- * *Parviturboides copiosus* (PILSBRY & OLSSON, 1945). (5), among rocks and sand; Panama-Ecuador (B).
- * *Solariorbis ditropis* PILSBRY & OLSSON, 1952. (*Cyclostremiscus?*) (5), among rocks and sand; Colombia (B).
- * *Solariorbis elegans* PILSBRY & OLSSON, 1952. (6), among rocks and sand; Ecuador (B).
- * *Solariorbis seminudus* (C. B. ADAMS, 1852). (5), in sand siftings; Panama (B).
- * *Teinostoma amplexans* CARPENTER, 1856. (2, 5), among rocks and sand; Mazatlan, Mexico (B, D, M).
- * *Teinostoma gallegosi* JORDAN, 1936. Uncommon (1, 5, 6), among rocks; Pleistocene, Magdalena Bay, Lower California (D, M).
- * *Teinostoma regularis* (C. B. ADAMS, 1852). (6), under rocks at low tide; Panama (SBM).
- Vitrinella dalli* (BARTSCH, 1911). (5), among rocks and sand (B).
- * *Vitrinella goniomphala* PILSBRY & OLSSON, 1952. (5), among rocks and sand; Ecuador (B).
- * *Vitrinella guaymasensis* DURHAM, 1942. Rare (6), under rocks; Concepcion Bay, Lower California (SBM).
- * *Amphithalamus inclusus* CARPENTER, 1864. (5), among rocks and sand; Santa Barbara, California (B).
- * *Barleeia alderi* (CARPENTER, 1857). (5), among rocks and sand; diving 6-12 m; Mazatlan, Mexico (B, M).
- * *Barleeia bentleyi* BARTSCH, 1920. (5), among rocks and sand; Venice, California (B).
- * *Barleeia bifasciata* (CARPENTER, 1857). (5), in sand siftings; Mazatlan, Mexico (B).
- * *Barleeia subtenuis* CARPENTER, 1864. Rare (6), under rocks; San Diego, California (SBM).
- * *Rissoina barthelowi* BARTSCH, 1915. Uncommon (3), dredged 17 fms. on rock and broken shell bottom; Concepcion Bay, Lower California (D).
- * *Rissoina expansa* CARPENTER, 1857. Rare (6), under rocks; Mazatlan, Mexico (SBM).
- * *Rissoina firmata* (C. B. ADAMS, 1852). (5), among rocks and sand; Panama (B).
- * *Rissoina stricta* (MENKE, 1850). Common (1, 2, 5, 6), under rocks, in colonies, at low tide; Mazatlan, Mexico (B, D, M, S).
- * *Jeffreysia tumens* CARPENTER, 1857. (5, 6), under rocks and in sand siftings; Mazatlan, Mexico (B, SBM).
- 181 *Turritella banksi* REEVE, 1849. Uncommon (3, 9), intertidal on sand beach; dredged 17 fms. on rock and gravel bottom (D, K, P).
- 182 *Turritella clarionensis* HERTLEIN & STRONG, 1951. Uncommon (3, 4, 5, 6), dredged 15-25 fms. on rock, gravel and sand bottom (K, P, S, SBM).
- 183 *Turritella gonostoma* VALENCIENNES, 1832. Common (2, 4, 8, 9), intertidal on sand bars (B, D, K, M, P, SBM).
- 184 *Turritella lentiginosa* REEVE, 1849. (6), intertidal (SBM).
- 185 *Turritella leucostoma* VALENCIENNES, 1832. Common (3, 4, 5, 6, 9), intertidal on sand and mud flats; dredged 7-25 fms. on sand and silt bottom (B, D, K, P, S).
- 186 *Turritella mariana* DALL, 1908. Common (3, 6), dredged 15-20 fms. on sand and gravel bottom (B, D, K, P).
- 187 *Turritella nodulosa* KING & BRODERIP, 1832. Common (3, 5, 6), dredged 15-25 fms. on sand and gravel bottom (D, K, M, P, SBM).
- * *Turritella sanguinea* REEVE, 1849. Rare (6), dredged 20-30 fms. on sand and rubble bottom (K).
- 189a *Vermicularia pellucida eburnea* (REEVE, 1842). Common (6, 8), attached under rocks (D, SBM).
- 191 *Architectonica nobilis* RÖDING, 1798. Uncommon (3, 4, 5, 6, 9), intertidal on rocks around pools; common dredged 10-100 fms. (B, D, K, P, S, SBM).
- 192 *Architectonica placentalis* (HINDS, 1844). Uncommon (1, 3, 6), dredged 10-100 fms. on sand and rubble bottom (D, K, P).
- 193 *Heliacus bicanaliculatus* (VALENCIENNES, 1832). Rare (2), intertidal under rocks (B, P).
- 194 *Heliacus mazatlanicus* PILSBRY & LOWE, 1932. Rare (1, 3, 5), dredged 10-20 fms. on rock and gravel bottom (D, P, SBM).

- * *Heliacus chiquita* PILSBRY & LOWE, 1932. Rare (3, 5), in sand siftings; dredged 17 fms. on rock and gravel bottom; Acapulco, Mexico (B, P).
- * *Heliacus planispira* PILSBRY & LOWE, 1932. Rare (3), dredged 17 fms. on rock and gravel bottom; Mazatlan, Mexico (P).
- * *Caecum bahiahondaense* STRONG & HERTLEIN, 1939. (5), among rocks and sand; Panama (B).
- * *Caecum clathratum* CARPENTER, 1857. (5), among rocks and sand; Mazatlan, Mexico (B).
- * *Caecum heptagonum* CARPENTER, 1857. (5), in sand siftings; Mazatlan, Mexico (B).
- * *Caecum liracinctum* CARPENTER, 1857. (5), in sand siftings; Mazatlan, Mexico (B).
- 195 *Modulus catenulatus* (PHILIPPI, 1849). Common (2, 3, 4, 8), intertidal on mud among mangroves and around rocks; uncommon dredged 10-17 fms. on rock and gravel bottom (B, D, K, M, P).
- 196 *Modulus cerodes* (A. ADAMS, 1851). Uncommon (1, 2, 3, 4, 6, 8), intertidal under rocks; dredged 10-17 fms. on rock and gravel bottom (D, K, M, P, SBM).
- 197 *Modulus disculus* (PHILIPPI, 1846). Common (2, 3, 4, 8), on mud flats; dredged 7-20 fms. on rock and gravel bottom (D, K, M, P).
- 200 *Petalocochus contortus* (CARPENTER, 1857). (8), attached to rocks (D).
- 203 *Petalocochus macrophragma* CARPENTER, 1865. Rare (6), attached to rocks (SBM).
- 205* *Serpulorbis margaritaceus* CHENU, 1844. Uncommon (6), attached to rocks; Mazatlan, Mexico (B, SBM).
- 206 *Serpulorbis oryzata* (MÖRCH, 1862). (6), intertidal on rocks (B).
- 208 *Vermetus tripsycha* PILSBRY & LOWE, 1932. (3), dredged 15 fms. (B).
- 209* *Cerithium adustum* KIENER, 1841. (2, 6), intertidal under rocks; Mazatlan, Mexico (K, P, S, SBM).
- 210 *Cerithium gemmatum* (HINDS, 1844). Uncommon (3), dredged 17 fms. on rock and gravel bottom (P, S).
- 211 *Cerithium maculosum* KIENER, 1841. Common (2, 4, 6), intertidal among rocks (D, M, P, S, SBM).
- 212 *Cerithium menkei* CARPENTER, 1857. Uncommon (2), intertidal under rocks (P, SBM).
- 214 *Cerithium sculptum* SOWERBY, 1855. Common (2, 3, 4, 6), intertidal under rocks; dredged 10-30 fms. on rock and gravel bottom (B, D, K, M, P, SBM).
- 215 *Cerithium stercusmuscarum* VALENCIENNES, 1833. Very common (1, 2, 4, 5, 8), under and around rocks (D, M, P, SBM).
- 216 *Cerithium uncinatum* (GMELIN, 1791). Uncommon (3, 6), intertidal under rocks; dredged 17 fms. on rock bottom (B, D, K, M, P, SBM).
- * *Triphora contrerasi* F. BAKER, 1926. (5), among rocks and sand; San Evaristo Bay, Lower California (B).
- * *Seila assimolata* C. B. ADAMS, 1852. Common (3, 6), intertidal, among rocks and sand; dredged 17 fms. on rock and gravel bottom; Puertecitos, Gulf of California (B, D, M, P).
- * *Alaba interruptelineata* PILSBRY & LOWE, 1932. (6), intertidal under rocks; diving 6-12 m; Nicaragua (D, M, SBM).
- Alaba jeannettae* BARTSCH, 1910. (5, 6), among rocks and sand (B, SBM).
- * *Alaba supralirata* CARPENTER, 1857. (5), in sand siftings; Mazatlan, Mexico (B).
- 219 *Cerithidea albonodosa* CARPENTER, in GOULD & CARPENTER, 1857. Common (8), midtide in brackish water (D, M).
- 220 *Cerithidea mazatlanica* CARPENTER, 1857. Common (1, 2, 4, 6), high tide line among rocks (B, D, P).
- 221 *Cerithidea montagnei* (ORBIGNY, 1837). Uncommon (2, 4), intertidal on mangrove roots (D, P).
- 224* *Rhinocoryne humboldti* (VALENCIENNES 1832). Common (4), in mud in estero; dredged 15 fms.; El Salvador (probably fossil) (B, D, P).
- 227 *Hipponix pilosus* (DESHAYES, 1832). Uncommon (2, 5, 6), intertidal on rocks; common dredged 50-100 fms. on sand, shell, and rock bottom (B, D, K, M, P, S, SBM).
- 229 *Hipponix serratus* CARPENTER, 1857. Uncommon (2, 5, 6), on rocks at low tide (B, M, P, S).
- Thyca callista* BERRY, 1959. Rare (2), parasitic on the asteroid *Phataria unifascialis* GRAY; type locality (B).
- * *Fossarus megasoma* (C. B. ADAMS, 1852). (6), diving 6-12 m; Panama (M).
- 230 *Vanikoro aperta* (CARPENTER, 1864). Rare (3, 6), dredged 17 fms. on rock and broken shell bottom; diving 6-12 m (D, M, P).
- 232 *Calyptraea conica* BRODERIP, 1834. Common (2, 3, 4, 5, 6), dredged 10-100 fms. on dead shells (D, K, P, S, SBM).
- 233 *Calyptraea mamillaris* BRODERIP, 1834. Common (2, 4, 6), intertidal on dead shells; dredged 45 fms. on sand and rubble bottom (K, P).
- 234 *Calyptraea subreflexa* (CARPENTER, 1857). Uncommon (5), dredged 40 fms. on rock bottom (D).
- 237 *Cheilea cepacea* (BRODERIP, 1834). Rare (1, 3, 4, 6), on dead shells at low tide; uncommon dredged

- 10-17 fms. on rock and broken shell bottom; diving 6-12 m (M, P, SBM).
- 238 *Cheilea corrugata* (BRODERIP, 1834). Rare (6), diving 6-12 m around rocks (B).
Capulus sericeus BURCH & BURCH, 1961. Dredged (6) by BURCH on *Pecten sericeus*; type locality.
- 239 *Crepidula aculeata* (GMELIN, 1791). Uncommon (3, 6), dredged 17-100 fms. on rock bottom (K, P, S, SBM).
- 240 *Crepidula arenata* (BRODERIP, 1834). Common (2, 3, 5), intertidal on shells; dredged 7-45 fms. on shells (D, K, P, SBM).
- 241 *Crepidula excavata* (BRODERIP, 1834). Uncommon (1, 2, 3, 4), intertidal on *Polinices*; dredged 10-17 fms. on rock and gravel bottom (P).
- 242 *Crepidula incurva* (BRODERIP, 1834). Common (4, 5, 6), attached to shells (B, K, M, S).
- 245 *Crepidula onyx* SOWERBY, 1824. Common (4, 5, 6, 9), intertidal on dead shells; dredged 15-40 fms. on rock and broken shell bottom (D, K, M, SBM).
- 247* *Crepidula rostrata* C. B. ADAMS, 1852. Rare (3, 6), dredged 7-60 fms. on rock and shell bottom; Panama (D, K).
- 248 *Crepidula striolata* MENKE, 1851. Common (3, 4, 5, 6, 9), intertidal under rocks and inside dead shells; dredged 17 fms. in dead shells and mouths of live *Conus* (B, D, K, M, P, S).
- 249 *Crepidula uncata* MENKE, 1847. Rare (6), attached to shells (SBM).
- 250 *Crucibulum lignarium* (BRODERIP, 1834). Uncommon (2, 8, 9), intertidal under rocks (B, D, P).
- 251* *Crucibulum personatum* KEEN, 1958. (4), on dead shells; Acapulco, Mexico (D).
- 252 *Crucibulum scutellatum* (WOOD, 1828). Common (1, 2, 3, 4, 5, 6, 7, 8, 9), intertidal on rocks; dredged 10-100 fms. on rock and shell bottom (B, D, K, M, P, S, SBM).
- 253a* *Crucibulum concameratum* REEVE, 1859. Uncommon (1, 6), dredged 10-45 fms. on rock and gravel bottom; Acapulco, Mexico (B, P).
- 254 *Crucibulum spinosum* (SOWERBY, 1824). Common (1, 2, 3, 4, 6, 7, 8), intertidal on rocks; dredged 10-40 fms. on rock bottom (B, D, K, M, P, S, SBM).
- 255 *Crucibulum umbrella* (DESHAYES, 1830). Uncommon (2, 6), intertidal under rocks (B, D, M, P).
* *Crucibulum castellum* BERRY, 1963. Rare (4), dredged 10-15 fms. on rock and broken shell bottom; Acapulco, Mexico (P).
- 256* *Xenophora robusta* VERRILL, 1870. Uncommon (3, 4, 6), dredged 10-25 fms. on sand and gravel bottom; La Paz (B, D, P).
- 258 *Natica chemnitzii* PFEIFFER, 1840. Common (2, 3, 4, 6), intertidal on sand flats; dredged 10-17 fms. on silt and mud bottom (B, D, M, P, SBM).
- 261 *Natica idiopoma* PILSBRY & LOWE, 1932. Uncommon (3), dredged 17 fms. on rock and gravel bottom (P).
- 263 *Natica broderipiana* RÉCLUZ, 1844. Common (3, 5, 6), dredged 15-60 fms. on rock and gravel bottom (B, D, M, P, S, SBM).
- 264 *Natica elenae* RÉCLUZ, 1844. (6), dredged 20-40 fms. (B).
- 266 *Polinices bifasciatus* (GRAY, 1834). Common (2, 3, 4), intertidal on sand flats; dredged 7-20 fms. on sand bottom (D, M, P, SBM).
- 267 *Polinices caprae* (PHILIPPI, 1852). (6), dead specimen from sand bottom near rocky rubble at 10 m (SHASKY, 1964).
- 272 *Polinices uber* (VALENCIENNES, 1832). Common (2, 3, 4, 5, 6, 8), intertidal on sand flats; dredged 10-20 fms. on rock and broken shell bottom (B, D, M, P, SBM).
- 272a *Polinices panamensis* (RÉCLUZ, 1844). (4), in estero (B).
- 274 *Polinices reclusianus* (DESHAYES, 1839). Uncommon (2), on sand beach at low tide (M, SBM).
* *Sinum grayi* (DESHAYES, 1843). (6), dredged 20-40 fms.; Chile-Peru (B).
- 280* *Lamellaria inflata* (C. B. ADAMS, 1852). Uncommon (2, 3, 5, 6), intertidal under rocks; dredged 17 fms. on rock bottom; Panama (D, P, SBM).
- 281 *Cypraea albuginosa* GRAY, 1825. Rare (3, 5, 6), intertidal under rocks; dredged 17 fms. on rock bottom (K, M, P, S).
- 282* *Cypraea isabellamexicana* STEARNS, 1893. (1), intertidal under rocks; La Paz, Lower California (P).
- 283 *Cypraea cervinetta* KIENER, 1843. Uncommon (2, 6, 9), intertidal under rocks and below tide line to approximately 10 feet (D, P).
- 284 *Cypraea arabicula* LAMARCK, 1811. Uncommon (2, 4, 5, 6), intertidal under rocks (D, K, M, P, SBM).
- 287 *Cypraea annettae* DALL, 1909. Common (1, 2, 3, 4, 5, 6), intertidal under rocks; uncommon dredged 10-20 fms. on rock bottom (D, K, M, P, S, SBM).
- 289 *Erato columbella* MENKE, 1847. Uncommon (2, 3, 4, 5, 6), intertidal under rocks; common dredged 17-60 fms. on rock and gravel bottom (D, M, P, SBM).
- 296 *Trivia californiana* (GRAY, 1828). Uncommon (2, 3, 6), intertidal under rocks; common dredged 17 fms. on rock and gravel bottom (B, D, P, SBM).

- 297 *Trivia radians* (LAMARCK, 1810). Uncommon (2, 3, 6), intertidal under rocks; dredged 17 fms. on rock bottom (B, D, P, SBM).
- 298 *Trivia sanguinea* (SOWERBY, 1832). Rare (3, 6), dredged 17 fms. (D, M, SBM).
- 299 *Trivia solandri* (SOWERBY, 1832). Common (3, 5, 6), intertidal under rocks; uncommon dredged 17 fms. on rock and gravel bottom (B, D, K, M, P, SBM).
- * *Trivia myrae* CAMPBELL, 1961. Common (1, 3, 4), dredged 10-17 fms. on gravel bottom; Carmen Island, Gulf of California (B, D, P).
- 300* *Jenneria pustulata* (SOLANDER, 1786). Uncommon (2, 3, 5, 6, 8), intertidal on rocks; dredged 17 fms. on rock bottom; diving 6-12 m; southern part of Gulf of California (D, K, M, P, S, SBM).
- 301 *Cyphoma emarginatum* (SOWERBY, 1830). (6), dredged 60 fms. (dead specimen) (D).
- 303 *Neosimnia avena* (SOWERBY, 1832). Uncommon (4, 5), intertidal on gorgonians (B, P).
- 305 *Neosimnia quaylei* (LOWE, 1935). Common (2, 4, 5, 6), just below low tide, color appears to be consistent with that of gorgonians on which they live (B, D, K, P, S).
- * *Neosimnia vidleri tyrianthina* BERRY, 1960. Common (2, 3, 4, 5, 6), below low tide on purple gorgonians; dredged 17 fms. on purple gorgonians; Cholla Cove, Sonora, Mexico (D, P).
- 307 *Strombus galeatus* SWAINSON, 1823. Common in summer months (2, 5, 6), in tide pools (B, P, SBM).
- 308 *Strombus gracilior* SOWERBY, 1825. Common (2, 3, 4, 5, 6, 9), intertidal on sand flats; dredged 10-25 fms. on sand bottom (B, D, K, M, P, S, SBM).
- 309 *Strombus granulatus* SWAINSON, 1822. Common (1, 2, 3, 4, 5, 6), intertidal on sand flats; dredged 7-20 fms. on sand bottom (B, D, K, M, P, SBM).
- 311* *Malea ringens* (SWAINSON, 1822). Uncommon (3), dredged 17 fms. on sand and gravel bottom; Mazatlan, Mexico (P).
- 313* *Cassis coarctata* SOWERBY, 1825. Rare (3, 5, 6), in tide pools around rocks; diving 6-12 m; La Paz (B, D, K, P).
- 315 *Cassis centiquadrata* (VALENCIENNES, 1832). Uncommon (2, 3, 4, 5, 6), intertidal on sand bars; common as juveniles, dredged 15-20 fms. on sand bottom (B, D, K, P, S, SBM).
- 316 *Morum tuberosum* (REEVE, 1852, ex SOWERBY MS.). Rare (1, 2, 4, 6), as beach shells; dredged 60 fms.; diving 6 m (very rare alive) (D, M, P, SBM).
- 317 *Ficus ventricosa* (SOWERBY, 1825). Uncommon (4, 5, 6), as beach shells; dredged 10-20 fms. (dead specimens) (B, P, SBM).
- 319* *Cymatium amictum* (REEVE, 1844). (6), dredged 60 fms. on sand and broken shell bottom; Mazatlan, Mexico (B, D).
- 321 *Cymatium wiegmanni* (ANTON, 1839). Rare (6), dredged 60 fms. (B, D).
- 322 *Cymatium parthenopeum* (VON SALIS, 1793). (3), dredged 17 fms. (dead specimen) (B).
- 324 *Cymatium gibbosum* (BRODERIP, 1833). Uncommon (2, 3, 4), intertidal around rocks; dredged 17 fms. on rock bottom (D, M, P).
- 325* *Distorsio constricta* (BRODERIP, 1833). Uncommon (3, 6), dredged 17-60 fms. on sand and silt bottom; southern part of Gulf of California (P, S).
- 326* *Distorsio decussata* (VALENCIENNES, 1832). Uncommon (3, 5, 6), dredged 10-15 fms. on sand and silt bottom; southern part of Gulf of California (B, D, SBM).
- 327* *Bursa caelata* (BRODERIP, 1833). (6), diving 12 m (SHASKY, 1964); Mazatlan, Mexico.
- 330* *Bursa nana* (BRODERIP & SOWERBY, 1829). (6), dredged 20-40 fms.; Mazatlan, Mexico (B).
- * *Bursa californica sonorana* BERRY, 1960. (6, 9), as beach shells; dredged 45-90 fms.; Cholla Cove, Sonora, Mexico (B, D, M, P).
- 334* *Colubraria siphonatus* (REEVE, 1844). Common (1, 2, 3, 4, 5, 6), dredged 10-60 fms. on rock and gravel bottom; Nicaragua (B, D, K, P, S, SBM).
- 335 *Murex elenensis* DALL, 1909. Uncommon (6, 9), in egg masses on beach; dredged 20 fms. (B, D, P).
- 336a *Murex recurvirostris lividus* CARPENTER, 1857. Rare (1, 2, 3, 4, 6), intertidal among rocks; common dredged 15-100 fms. on sand and broken shell bottom (B, D, K, P, S).
- 337 *Pteropurpura centrifuga* (HINDS, 1844). Rare (3, 6), dredged 45-100 fms. on sand and broken shell bottom (B, S).
- 338* *Hexaplex brassica* (LAMARCK, 1822). (3), dredged 15 fms.; Mazatlan, Mexico (B).
- 339 *Hexaplex erythrostomus* (SWAINSON, 1831). Common (2, 3, 4, 5, 8), intertidal on sand flats; dredged 10-20 fms. on sand bottom (B, D, K, M, P, SBM).
- 342* *Maxwellia humilis* (BRODERIP, 1833). Rare (3, 4, 5, 6), dredged 10-20 fms. on rock and silt bottom; Nicaragua (B, D, P, SBM).
- 343a *Muricanthus callidinus* BERRY, 1958. (6), diving at 6 m (M).
- 344 *Muricanthus nigrinus* (PHILIPPI, 1845). Common (2, 3, 4, 5, 8), intertidal in sand close to rocks and on mud flats of esteros; uncommon dredged 10-17 fms. (B, D, M, P).
- 345 *Muricanthus oxyacantha* (BRODERIP, 1833). (6), diving 6-12 m (M).

- 346* *Muricanthus princeps* (BRODERIP, 1833). Common (2), intertidal among rocks; southern part of Gulf of California (D, M, P).
- 348 *Pteropurpura erinaceoides* (VALENCIENNES, 1832). Common (2, 3, 4, 5, 6, 7, 8, 9), intertidal on rocks; dredged 10-45 fms. on rock and gravel bottom (B, D, K, M, P, S, SBM).
- 349* *Pteropurpura pinniger* (BRODERIP, 1833). Rare (3, 4, 6, 9), as beach shells; dredged 10-20 fms. on rock and gravel bottom; diving 12m; Panama (B, D, M, P).
- * *Shaskyus festivus* (HINDS, 1844). Common (7), as juveniles around wharf pilings during December, 1960; Magdalena Bay, Lower California (D).
- 353 *Ocenebra carmen* (LOWE, 1935). Common (1, 3, 6), dredged 10-60 fms. on rock and gravel bottom (B, D, P).
- 358 *Ocenebra parva* (E. A. SMITH, 1877). Common (2, 6), intertidal among rocks; diving 6-12m (D, M, P, SBM).
- 359* *Ocenebra peasei* (TRYON, 1880). Rare (3), dredged 17 fms. on rock and gravel bottom; La Paz (D, P).
- 360 *Ocenebra perita* (HINDS, 1844). Rare (3, 4, 5), dredged 10-20 fms. on rock and broken shell bottom (D, P).
- 361* *Ocenebra radicata* (HINDS, 1844). (3), dredged 15-35 fms.; Mazatlan, Mexico (B).
- 361b* *Ocenebra hambachi* HERTLEIN, 1958. Rare (3, 4), dredged 5-17 fms. on rock and gravel bottom; Manzanillo, Mexico (B, D, P).
- 364 *Eupleura muriciformis* (BRODERIP, 1833). Common (2, 3, 4, 6, 7, 8), intertidal among rocks; dredged 15-100 fms.; the intertidal form and dredged form are easily separable (D, K, M, P, S, SBM).
- 367 *Muricopsis armatus* (A. ADAMS, 1854). Common (1, 2, 3, 5, 7), intertidal on rocks; dredged 10-20 fms. on rock and gravel bottom (B, D, K, M, P).
- 368* *Muricopsis pauxillus* (A. ADAMS, 1854). Rare (2, 6), intertidal under rocks; dredged 100 fms.; Mazatlan, Mexico (D, K, SBM).
- 370* *Vitularia salebrosa* (KING & BRODERIP, 1832). Uncommon (3, 4), just below low tide on base of gorgonians; dredged 15-17 fms. on rock bottom; La Paz (B, M, P).
- 372 *Trophon cerrosensis* DALL, 1891. Rare (6), dredged 45-90 fms. (D).
Trialatella cunninghamae BERRY, 1964. Rare (1, 3), dredged 10-17 fms. on rock and gravel bottom; type locality (B, P).
- 379* *Phyllocoma scalariformis* (BRODERIP, 1833). (1), diving 10m, under rocks (SHASKY & CAMPBELL, 1964); Central America to the Galápagos Islands.
- 383 *Typhis lowei* PILSBRY, 1931. Rare (1, 3), dredged 10-20 fms. on rock and gravel bottom (B, D, P).
- 385* *Typhis coronatus* BRODERIP, 1833. Common (1, 2, 3, 4, 5, 6), dredged 10-20 fms. on rock and silt bottom; southern part of Gulf of California (B, D, K, M, P, S, SBM).
Typhis grandis A. ADAMS, 1855. Uncommon (1, 3, 4), dredged 10-20 fms. on rock and silt bottom; diving 6-12m (B, D, M, P).
- 387 *Coralliophila costata* (BLAINVILLE, 1832). (6), diving 6-12m (M).
- 388 *Coralliophila hindsii* (CARPENTER, 1857). Uncommon (1, 4), dredged 15 fms. on broken shell and gravel bottom (P).
- * *Coralliophila incompta* BERRY, 1960. Uncommon (1, 3, 4, 6), dredged 10-45 fms. on rock and gravel bottom; Angel de la Guarda Island, Gulf of California (B, K, P).
- 396 *Thais speciosa* (VALENCIENNES, 1832). Common (2, 3, 4, 6), intertidal on rocks (D, K, M, P, S, SBM).
- 397* *Thais triangularis* (BLAINVILLE, 1832). Uncommon (2, 6), intertidal on rocks; Cape San Lucas (B, D, K, M, P, S, SBM).
- 398 *Thais biserialis* (BLAINVILLE, 1832). Common (2, 3, 6), intertidal on rocks (B, D, K, M, P, S, SBM).
- 401 *Thais kiosquiformis* (DUCLOS, 1832). Uncommon (4), feeding on oysters on mangrove roots (P).
- 404 *Acanthina angelica* I. OLDROYD, 1918. Common (6), intertidal on rocks (D, P, S, SBM).
- 408* *Acanthina muricata* (BRODERIP, 1832). (6), dredged 20-40 fms.; southern Mexico (B).
- 409 *Acanthina tuberculata* (SOWERBY, 1835). Common (2, 4, 6), intertidal on rocks (B, D, M, P, S, SBM).
- 411 *Morula ferruginosa* (REEVE, 1846). Common (2, 4, 6), intertidal under rocks (B, K, M, P, SBM).
- 412 *Morula lugubris* (C. B. ADAMS, 1852). Uncommon (6), intertidal under rocks (M, SBM).
- 414 *Purpura patula pansa* GOULD, 1853 (?1852). Common (2, 6), intertidal on rocks (D, P, S).
Decipifus gracilis McLEAN, 1959. Rare (5, 6), under rocks at low tide; type locality (M, P, SBM).
- 424 *Anachis coronata* (SOWERBY, 1832). Common (2, 3, 4, 5, 6, 8), intertidal under rocks; dredged 10-40 fms. (D, K, M, P, SBM).
- 437 *Anachis hilli* PILSBRY & LOWE, 1932. Uncommon (2, 3, 4, 6), intertidal under rocks; dredged 17 fms. on rock and gravel bottom (D, M, P, SBM).
- 439* *Anachis incerta* (STEARNS, 1892). Rare (1, 5, 6), diving 6m, under rocks; Tres Marias Islands and

- Mazatlan, Mexico (M, SBM).
- 442 *Anachis milium* (DALL, 1916). (5), low tide in estero (S).
- 444 *Anachis nigricans* (SOWERBY, 1844). (6), intertidal under rocks (D).
- 448 *Anachis pygmaea* (SOWERBY, 1832). Common (2, 4, 5, 6), intertidal under rocks; dredged 5 fms. (B, D, M, P, SBM).
- 450* *Anachis ritleri* HERTLEIN & STRONG, 1951. Uncommon (2), intertidal under rocks; Gulf of Tehuantepec (P).
- 461* *Anachis tessellata* (C. B. ADAMS, 1852). Uncommon (2), intertidal under rocks; Guatemala (SBM).
- 462* *Anachis tincta* CARPENTER, 1864. Rare (1), intertidal under rocks; southern part of Gulf of California (SBM).
- 463 *Anachis treva* BAKER, HANNA & STRONG, 1938. Rare (3), dredged 17 fms. on rock and gravel bottom (P).
- 464 *Anachis varia* (SOWERBY, 1832). Common (2, 3, 4, 6), intertidal under rocks; dredged 10-17 fms. on rock and gravel bottom (B, D, K, M, P, SBM).
- 466 *Anachis vexillum* (REEVE, 1858). Common (2, 4), intertidal under rocks (D, K, M, P).
- 470 *Cosmioconcha palmeri* (DALL, 1913). Uncommon (3, 6), dredged 15-60 fms. (D, K, P, S).
- 472 *Cosmioconcha pergracilis* (DALL, 1913). Uncommon (6), dredged 15-25 fms. (D).
- 477* *Mitrella delicata* (REEVE, 1859). Rare (2), intertidal under rocks; Manzanillo, Mexico (SBM).
- 478* *Mitrella dorma* BAKER, HANNA & STRONG, 1938. Uncommon (2, 3, 6), intertidal under rocks; dredged 17-60 fms. on rock and gravel bottom; southern part of Gulf of California (D, P, SBM).
- 480 *Mitrella granti* LOWE, 1935. Uncommon (2, 5, 6, 8), intertidal under rocks (D, SBM).
- 481* *Mitrella harfordi* STRONG & HERTLEIN, 1937. Uncommon (2), intertidal among rocks; Acapulco, Mexico (P).
- 482 *Mitrella lalage* PILSBRY & LOWE, 1932. Uncommon (2, 3, 4, 5), intertidal among rocks; dredged 10 fms. on sea weed and on rock and gravel bottom (B, D, P).
- 483* *Mitrella millepunctata* (CARPENTER, 1864). Rare (3, 4, 6), intertidal under rocks; dredged 10 fms. on rock and gravel bottom; southern part of Gulf of California (D, M, P, SBM).
- 484 *Mitrella ocellata* (GMELIN, 1791). Common (2, 3, 4, 5, 6, 9), intertidal under rocks; dredged 17 fms. on rock and gravel bottom (D, K, M, P, SBM).
- 486* *Mitrella santabarbarensis* (CARPENTER in GOULD & CARPENTER, 1857). Uncommon (2, 3, 4), intertidal under rocks; dredged 10-20 fms. on rock and gravel bottom; southern part of Gulf of California (P).
- Nassarina anitae* CAMPBELL, 1961. Uncommon (3, 4, 5, 6), dredged 10-17 fms. on rock and gravel bottom; type locality (B, D, P).
- 494 *Parametaria dupontii* (KIENER, 1849-1850). Common (2, 3, 4, 6), intertidal on rocks; dredged 20 fms. on rock bottom (B, D, K, M, P, S, SBM).
- 498 *Pyrene haemastoma* (SOWERBY, 1832). Uncommon (1, 3, 4, 5, 6), dredged 5-20 fms. on rock and gravel bottom (B, D, K, M, P, SBM).
- 501* *Pyrene major* (SOWERBY, 1832). Common (2, 6), intertidal around rocks; southern part of Gulf of California (D, M, P).
- 502 *Pyrene strombiformis* (LAMARCK, 1822). Uncommon (2, 5, 6), intertidal around rocks (K, P, SBM). *Pyrene aureomexicana* HOWARD, 1963. Common (2, 3, 4, 6), intertidal among rocks; uncommon dredged 20-45 fms. on rock bottom (D, K, M, P, SBM).
- 504* *Strombina bonita* STRONG & HERTLEIN, 1937. Rare (6), dredged 45-90 fms.; southern part of Gulf of California (D).
- 508 *Strombina dorsata* (SOWERBY, 1832). Common (3, 4), dredged 17 fms. on rock and gravel bottom (P).
- 512 *Strombina gibberula* (SOWERBY, 1832). Common (1, 3, 4, 5), dredged 10-20 fms. on rock and gravel bottom (D, P, SBM).
- 513 *Strombina hirundo* (GASKOIN, 1852). Rare (5), dredged 10 fms. on sand bottom (S).
- 515 *Strombina maculosa* (SOWERBY, 1832). Common (2, 3, 4, 5, 6), intertidal on sand bars; dredged 10-20 fms. (B, D, M, P, S, SBM).
- 521 *Strombina sinuata* (SOWERBY, 1874). Rare (4), trapped in 20 fms. (P).
- 523 *Strombina subangularis* LOWE, 1935. Uncommon (3, 6), dredged 17-100 fms. on sand and rubble bottom (D, P).
- 525* *Strombinoturris crockeri* HERTLEIN & STRONG, 1951. Rare (3, 6), dredged 7-100 fms.; southern part of Gulf of California (D, K).
- 530* *Bailya anomala* (HINDS, 1844). (6), living specimen from under rock resting on gravel bottom (SHASKY, 1964); Nicaragua to Panama.
- 532* *Caducifer tabogensis* PILSBRY & LOWE, 1932. Rare (3), dredged 17 fms. on rock and gravel bottom; Panama Bay (P). *Caducifer bilirata* (REEVE, 1846). Rare (6), diving 2-18 m, taken under rocks (B, D, M).
- 536* *Cantharus panamicus* (HERTLEIN & STRONG, 1951). Rare (6), dredged 40-100 fms. on sand and rubble bottom; southern part of Gulf of California (B, D, K).
- 539* *Cantharus sanguinolentus* (DUCLOS, 1833). Un-

- common (2, 4, 6), intertidal on rocks; southern part of Gulf of California (D, M, P, SBM).
- 543 *Solenosteira macrospira* (BERRY, 1957). Common (2, 3, 6, 8), intertidal on sand flats; dredged 7-45 fms. on sand and rubble bottom (B, D, K, M, P, SBM).
- * *Solenosteira gatesi* BERRY, 1963. (6), dredged 20-40 fms.; Mazatlan, Mexico (B).
Cantharus shaskyi BERRY, 1959. Uncommon (6), dredged 45-90 fms. (B, S).
- 548 *Engina jugosa* (C. B. ADAMS, 1852). Common (1, 3, 4, 6), dredged 10-90 fms. on sand and rubble bottom (D, P).
- 550a* *Engina reevei* TRYON, 1883. Uncommon (2, 3, 4, 6), intertidal among rocks; common dredged 10-17 fms. on sand and rubble bottom; southern part of Gulf of California (D, P, SBM).
- 551* *Engina solida* (DALL, 1917). Uncommon (1, 2, 3, 6), intertidal under rocks; dredged 10-40 fms. on rock and gravel bottom; La Paz (D, K, M, P, SBM).
- 552* *Engina tabogaensis* BARTSCH, 1931. (6), dredged 20 fms.; diving 6-12 m; Mazatlan, Mexico (B, M).
- 557* *Metula amosi* VANATTA, 1913. Uncommon (6), dredged 15-25 fms. on sand and broken shell bottom; Acapulco, Mexico (B, D).
- 559 *Phos articulatus* HINDS, 1844. (3), trapped in 40 fms. (P).
- 561* *Phos crassus* HINDS, 1843. Uncommon (3, 6), dredged 15-100 fms. on rock and gravel bottom; Mazatlan, Mexico (D, P, S).
- 563 *Phos gaudens* HINDS, 1844. Common (2, 3, 4, 5, 6), dredged 10-60 fms. on rock and gravel bottom (D, K, P, S, SBM).
- 565* *Phos veraguensis* HINDS, 1843. Common (3, 6), dredged 15-100 fms. on sand and rubble bottom; southern part of Gulf of California (B, D, K, P, S).
- 567 *Melongena patula* (BRODERIP & SOWERBY, 1829). Common (4), intertidal among grass in estero (D, P).
- 571* *Nassarius corpulentus* (C. B. ADAMS, 1852). (5, 6), dredged 10-90 fms. on sand and gravel bottom; southern part of Gulf of California (K, S).
- 574* *Nassarius gallegosi* STRONG & HERTLEIN, 1937. Uncommon (4, 5, 6), dredged 10-40 fms.; southern part of Gulf of California (D, K, P, S).
- 577 *Nassarius guaymasensis* (PILSBRY & LOWE, 1932). Common (2, 3, 6), intertidal among rocks; dredged 100 fms. on broken shell bottom (B, D, P).
- 583 *Nassarius pagodus* (REEVE, 1844). Uncommon (2, 3, 4, 5, 6), intertidal among rocks; common dredged 15-100 fms. (B, D, K, P).
- 584* *Nassarius polistes* (DALL, 1917). (4), trapped 20 fms.; Panama (P).
- 587 *Nassarius versicolor* (C. B. ADAMS, 1852). Common (2, 4, 5, 6, 7, 8), intertidal on mud and sand flats; dredged 6-45 fms. on sand and rubble bottom (D, K, M, SBM).
- 591 *Nassarius iodes* (DALL, 1917). Common (2, 4, 9), intertidal on mud and sand flats (B, D, K, P).
- 592 *Nassarius luteostoma* (BRODERIP & SOWERBY, 1829). Uncommon (2, 4), intertidal among rocks and mud in runnels (D, P).
- 593 *Nassarius moestus* (HINDS, 1844). (4), intertidal around rocks (B).
- 595 *Nassarius tiarula* (KIENER, 1841). Uncommon (2, 4, 6), intertidal on mud and sand flats (B, K, M, P).
- * *Nassarius howardae* CHACE, 1958. (6), dredged 10-15 fms.; San Felipe, Lower California (SHASKY, 1961).
- 598 *Pleuroploca princeps* SOWERBY, 1825. Uncommon (3, 4, 5), at extreme low tide in sandy bays; dredged 10-20 fms. on sand bottom (B, D, M, P).
- 603* *Latirus ceratus* (WOOD, 1828). Rare (6), intertidal under rocks; southern part of Gulf of California (P).
- 604* *Latirus concentricus* (REEVE, 1847). Rare (1, 3, 4), dredged 10-30 fms. on rock and broken shell bottom; Acapulco, Mexico (B, P).
- 605 *Latirus hemphilli* HERTLEIN & STRONG, 1951. Rare (3, 4), dredged 10-20 fms. on rock and gravel bottom (P).
- 610 *Fusinus dupetitthouarsi* (KIENER, 1846). Common (4, 5, 6), intertidal on mud in esteros; dredged 10-60 fms. (B, D, K, M, P, SBM).
- 612 *Fusinus ambustus* (GOULD, 1853). Common (1, 2, 3, 4, 5, 6), intertidal on mud flats; dredged 10-45 fms. (B, D, K, M, P, SBM).
- 616 *Fusinus panamensis* DALL, 1908. Rare (6), dredged 100-125 fms. on broken shell bottom (B, D).
- 617 *Fusinus cinereus* (REEVE, 1847). Common (2, 3, 4, 6, 8), intertidal on rocks; dredged 17 fms. on rock bottom (D, M, P, SBM).
- 619 *Fusinus colpoicus* DALL, 1915. Rare (3, 6), dredged 5-17 fms. (B, K).
- 620 *Oliva incrassata* (SOLANDER, 1786). Common (2, 4), intertidal on sand bars (D, P, SBM).
- 624 *Oliva porphyria* (LINNAEUS, 1758). Uncommon (3, 4), dredged 10-17 fms. on rock and gravel bottom (B, P).
- 625 *Oliva spicata* (RÖDING, 1798). Common (1, 2, 4, 5, 6), intertidal on sand bars; dredged 10-15 fms. on sand bottom (D, M, P, SBM).
- * *Oliva rejecta* BURCH & BURCH, 1962. Uncommon (4, 9), intertidal on sand bars; La Paz, Lower Cali-

- fornia (D, P).
- 627 *Oliva undatella* LAMARCK, 1810. Uncommon (3), dredged 10-12 fms. on rock and gravel bottom (P).
- 630 *Agaronia testacea* (LAMARCK, 1811). Uncommon (2, 4, 9), intertidal on sand bars (B, D, M, P, S).
- 633* *Olivella cocosensis* OLSSON, 1956. Uncommon (3), dredged 15 fms. on silt bottom; Nicaragua (P).
- 634 *Olivella dama* (WOOD, 1828, *ex* MAWE MS.). Common (2, 3, 4, 5, 6, 9), intertidal on sand bars; dredged 10-30 fms. (B, D, M, P, S, SBM).
- 634a *Olivella fletcheriae* BERRY, 1958. Common (1, 3, 4, 5), dredged 10-20 fms. on sand and gravel bottom (B, P, S, SBM).
- 639 *Olivella anazora* (DUCLOS, 1835). Uncommon (2, 4), intertidal under rocks; dredged 2-3 fms. on sand bottom (P, SBM).
- 640* *Olivella volutella* (LAMARCK, 1811). Uncommon (2), intertidal under rocks; Central America (M, P).
- 640a *Olivella cf. O. walkeri* BERRY, 1958. Uncommon (3), dredged 10-15 fms. on rock and gravel bottom; type locality (P).
- 645 *Olivella zanoeta* (DUCLOS, 1835). (5), dredged 10-15 fms. on sand bottom (SBM).
- 646 *Mitra solitaria* C. B. ADAMS, 1858. Rare (2, 3, 6), intertidal under rocks; dredged 10-30 fms. on rock and gravel bottom (M, P, SBM).
- 647 *Mitra lens* WOOD, 1828. Uncommon (2, 4, 6), in tide pools among rocks (D, M, P, SBM).
- 648* *Mitra lignaria* REEVE, 1844. (6), diving 10 m, taken in mud under rocks (SHASKY & CAMPBELL, 1964); Mazatlan, Mexico.
- 653* *Mitra crenata* BRODERIP, 1836. Common (1, 3, 4, 5, 6), dredged 10-30 fms. on rock and gravel bottom; diving 6-12 m; Ecuador (B, M, P, SBM).
- 654 *Mitra dolorosa* DALL, 1903. (Some intergrading with *M. tristis* BRODERIP.) (5), intertidal among rocks (B).
- 655 *Mitra mexicana* DALL, 1919. (6), dredged 20-40 fms. (B).
- 656 *Mitra tristis* BRODERIP, 1836. Common (2, 3, 5, 6), intertidal among rocks (B, D, P, SBM).
- 657* *Mitra zaca* (STRONG, HANNA & HERTLEIN, 1933). Rare (3, 6), dredged 17 fms. on rock and gravel bottom; diving 6-12 m; southern part of Gulf of California (B, M, P).
- 659* *Mitra erythrogramma* TOMLIN, 1931. Common (1, 3, 4, 5, 6), dredged 10-60 fms. on silt bottom; Nicaragua (B, D, M, P, SBM).
- 660* *Mitra gigantea* REEVE, 1844, *ex* SWAINSON MS. Rare (4), trapped in 20 fms.; Panama (P).
- 661 *Mitra hindsii* REEVE, 1844. Uncommon (3, 4, 5, 6), dredged 10-40 fms.; diving 6-12 m (B, D, M, P, SBM).
- * *Mitra calodinota* BERRY, 1960. Uncommon (3, 4, 6), dredged 10-25 fms. on rock and gravel bottom; Gulf of Nicoya, Costa Rica (B, D, P).
- Mitra directa* BERRY, 1960. (6), dredged in 20 fms. by U. S. S. *Albatross*; type locality (B).
- * *Mitra inca* ORBIGNY, 1841. Rare (1), dredged 10 fms. on rock and gravel bottom; Peru (P).
- * *Mitra lindsayi* BERRY, 1960. Common (1, 3, 4, 6), dredged 10-20 fms. on rock and broken shell bottom; Puerto Peñasco, Sonora, Mexico (B, P).
- Mitra malleti* PETIT, 1852. Rare (1, 3, 4, 6), dredged 10-20 fms. on sand and gravel bottom (B, P).
- Mitra sphoni* SHASKY & CAMPBELL, 1964. (1, 3), dredged 10-17 fms. on gravel bottom; type locality (P).
- 663 *Harpa crenata* SWAINSON, 1822. Rare (3, 4, 6), dredged 10-20 fms. on rock and gravel bottom (B, P).
- 664* *Vasum caestus* (BRODERIP, 1833). Uncommon (3, 4), dredged 10-30 fms. on rock bottom; La Paz (P).
- 666 *Lyria cumingii* (BRODERIP, 1832). Uncommon (2, 3, 4, 5, 6), intertidal among rocks and sand; dredged 5-30 fms.; diving 3-6 m (B, D, K, M, P, S, SBM).
- 669 *Volvarina taeniolata* (MÖRCH, 1860). Common (1, 2, 3, 4, 5, 6), intertidal under rocks; dredged 10-30 fms. on rock and gravel bottom (B, D, K, P, SBM).
- * *Cystiscus margaritula* (CARPENTER, 1857). (3, 5), dredged 7-10 fms. on sand and gravel bottom; Mazatlan, Mexico (B, K).
- * *Cystiscus minor* (C. B. ADAMS, 1852). (5), among rocks and sand; Panama (B).
- * *Cystiscus polita* CARPENTER, 1857. (3), dredged 5 fms. on sand bottom; Mazatlan, Mexico (D).
- 683* *Cancellaria decussata* SOWERBY, 1832. Rare (3), dredged 17 fms. on rock and gravel bottom; southern part of Gulf of California (P).
- 684 *Cancellaria gemmulata* SOWERBY, 1832. Rare (3, 5), dredged 10-15 fms. on rock and gravel bottom (B, P, SBM).
- 685 *Cancellaria obesa* SOWERBY, 1832. Uncommon (1, 3, 4), intertidal on sand bars; dredged 10-20 fms. on rock and gravel bottom (D, P).
- 686 *Cancellaria urceolata* HINDS, 1843. Uncommon (3, 5), dredged 10-15 fms. on rock and gravel bottom (D, P, SBM).
- 690 *Cancellaria pulchra* SOWERBY, 1832. Rare (1, 4), dredged 15 fms. on silt bottom; trapped in 20 fms.

- (B, P).
- 693 *Cancellaria cassidiformis* SOWERBY, 1832. Common (2, 3, 4, 5, 6), intertidal on sand beach; dredged 10-30 fms. on silt bottom (B, D, P, S, SBM).
- 696 *Cancellaria indentata* SOWERBY, 1832. Common (3, 4, 5), dredged 10-17 fms. on silt and sand bottom (B, P, SBM).
- 699* *Cancellaria clavatula* SOWERBY, 1832. Rare (3, 7), dredged 10-20 fms. on silt and broken shell bottom; Mazatlan, Mexico (B, D).
- * *Cancellaria corrugata* HINDS, 1843. Rare (3), dredged 17 fms. on rock and gravel bottom; Ecuador (B, P).
- * *Cancellaria strongi* SHASKY, 1961. Uncommon (6), dredged 45-90 fms. on sand and shell bottom; Point Arena, Lower California (D).
- 707* *Trigonostoma bullatum* (SOWERBY, 1832). Rare (3, 6), dredged 17-100 fms. on rock, sand, and broken shell bottoms; Acapulco, Mexico (B, D, P, S).
- 710 *Trigonostoma goniostoma* (SOWERBY, 1832). Uncommon (3, 6), dredged 20 fms. on rock and sand bottom; diving 3-6 m (M, P).
Trigonostoma campbelli SHASKY, 1961. Uncommon (3, 4, 5, 6), dredged 5-20 fms. on silt, sand, and gravel bottoms; type locality (B, D, M, P, SBM).
- 716* *Daphnella allemani* (BARTSCH, 1931). Rare (3, 4), dredged 17 fms. on rock and gravel bottom; Panama (B, P).
- 717 *Daphnella bartschi* DALL, 1919. Rare (3, 5, 6), intertidal under rocks; dredged 17 fms. on rock and gravel bottom (P, SBM).
- 720* *Daphnella mazatlanica* PILSBRY & LOWE, 1932. Rare (6), under rocks at low tide; southern part of Gulf of California (SBM).
- 721* *Daphnella panamica* PILSBRY & LOWE, 1932. Uncommon (1, 3), dredged 10-17 fms. on rock and gravel bottom; Nicaragua (P).
Daphnella crebriforma (SHASKY & CAMPBELL, 1964). Common (1, 3, 4, 5), dredged 10-20 fms. on silt, sand, and rock bottoms; type locality (D, P, SBM).
- 724* *Ancistrosyrinx cedonulli* (REEVE, 1843). Common (6), dredged 20-125 fms.; Mazatlan, Mexico (D, S, SBM).
- 726 *Knefastia funiculata* (KIENER, 1839-40, *ex* VALENCIENNES MS.). Uncommon (2, 3, 4, 5, 6), intertidal under rocks; dredged 10-25 fms. on rock bottom; diving 6-12 m (B, D, K, M, P, S, SBM).
- 727 *Knefastia olivacea* (SOWERBY, 1833). (6), among rocks at low tide (SBM).
- 728 *Knefastia tuberculifera* (BRODERIP & SOWERBY, 1829). Common (3, 4, 5, 6), dredged 10-100 fms. (B, D, K, P, S).
- 728a *Knefastia walkeri* BERRY, 1958. (6), dredged 20-40 fms. (B).
- 733 *Clavus hecuba* (DALL, 1919). Uncommon (3, 4, 5), dredged 10-20 fms. on rock and gravel bottom (D, P, S, SBM).
- 736* *Clavus melea* (DALL, 1919). Uncommon (2, 3, 4, 5), dredged 10-20 fms. on rock and gravel bottom; Panama (D, K, P, SBM).
- 741 *Clavus roseolus* (HERTLEIN & STRONG, 1955). Common (3, 4, 5, 6), dredged 10-40 fms. on silt, sand, and rock bottoms (D, K, M, P, S, SBM).
- 742* *Clavus strohbeeni* (HERTLEIN & STRONG, 1951). Uncommon (3), dredged 17 fms. on rock and gravel bottom; Cape San Lucas, Lower California (P).
- 743* *Clavus walteri* (M. SMITH, 1946). Common (1, 3, 4), dredged 10-30 fms. on silt bottom; Panama (D, K, M, P, S).
- 744* *Clavus abdera* (DALL, 1919). Uncommon (3, 4), dredged 10-20 fms. on rock and gravel bottom; Panama (B, D, K, P).
- 745* *Clavus acapulcanus* (LOWE, 1935). Common (1, 3, 4, 5, 6), dredged 10-20 fms. on sand and gravel bottom; Acapulco, Mexico (D, K, P, S).
- 746 *Clavus aeginus* (DALL, 1919). Uncommon (3), dredged 17 fms. on rock and gravel bottom (D, P).
- 748 *Clavus aerope* (DALL, 1919). Uncommon (3, 6), dredged 17-100 fms. on rock and gravel bottom; diving 6-12 m (D, M, P).
- 750* *Clavus clavatus* (SOWERBY, 1834). Rare (5), dredged 10-15 fms.; Panama (SBM).
- 751* *Clavus* cf. *C. craneanus* (HERTLEIN & STRONG, 1951). (5), dredged 10 fms. on sand bottom; Panama (S).
- 752 *Clavus cretatus* (E. A. SMITH, 1888). Rare (3, 4, 5), dredged 15 fms. on rock and gravel bottom; Panama (B, P, S).
- 755* *Clavus micans* (HINDS, 1843). Rare (3), dredged 17 fms. on sand and gravel bottom; Nicaragua (D).
- 756* *Clavus pallidus* (SOWERBY, 1834). Uncommon (3), dredged 17 fms. on rock and gravel bottom; Tenacatita Bay (D, P).
- 758 *Clavus pembertoni* LOWE, 1935. Uncommon (3, 6), dredged 17-60 fms. on gravel and broken shell bottom (D, P).
- 759 *Clavus pilsbryi* (BARTSCH, 1950). Uncommon (3, 6), dredged 15-25 fms. on sand and rubble bottom (B, D).
- 760 *Clavus unimaculatus* (SOWERBY, 1834). Rare (6), dredged 40 fms. (P).

- 761 *Clavus alcmene* (DALL, 1919). Rare (3, 4), dredged 15 fms. on rock and gravel bottom (B, K, P).
- 764 *Clavus zacae* (HERTLEIN & STRONG, 1951). Rare (3), dredged 15 fms. on rock and gravel bottom (P).
- 765 *Clathrodrillia callianira* DALL, 1919. Common (1, 3, 4, 5, 6), dredged 10-20 fms. (D, K, P).
- 767* *Clathrodrillia maura* (SOWERBY, 1834). Rare (1, 3, 4, 6), intertidal among rocks; common dredged 10-40 fms. on rock and gravel bottom; Mazatlan, Mexico (K, P, S, SBM).
- 769 *Clathrodrillia pilsbryi* LOWE, 1935. Common (3, 5), dredged 6-20 fms. on rock and gravel bottom (B, K, P, SBM).
- 770 *Clathrodrillia aenone* DALL, 1919. Common (1, 3, 4, 5, 6), dredged 10-40 fms. (B, D, K, M, P, SBM).
- 771* *Clathrodrillia adonis* (PILSBRY & LOWE, 1932). Uncommon (3, 6), dredged 17-20 fms. on rock and gravel bottom; Manzanillo, Mexico (D, P).
- 772 *Clathrodrillia alcestis* DALL, 1919. Common (1, 3, 4, 5, 6), dredged 10-100 fms. on sand and rubble bottom (D, K, P, S).
- 773* *Clathrodrillia dichroa* (PILSBRY & LOWE, 1932). Uncommon (3, 4, 5), dredged 10-30 fms. on sand and rubble bottom; Manzanillo, Mexico (D, K, P, SBM).
- 774* *Clathrodrillia duplicata* (SOWERBY, 1834). Common (1, 3, 4, 5, 6), dredged 10-25 fms. on sand and rubble bottom; Panama Bay (D, P, SBM).
- 775 *Clathrodrillia haliplexa* DALL, 1919. Common (1, 3, 4), dredged 10-20 fms. on rock and gravel bottom (P).
- 776* *Clathrodrillia halis* DALL, 1919. Common (1, 3, 4, 5, 6), dredged 10-100 fms. on rubble bottom; Manzanillo, Mexico (B, D, P, SBM).
- 776a *Clathrodrillia halis soror* (PILSBRY & LOWE, 1932). Common (1, 3, 4, 5, 6), dredged 10-20 fms. (D, K, P).
- 777* *Clathrodrillia jaculum* (PILSBRY & LOWE, 1932). Uncommon (3, 4), dredged 10-20 fms. on rock and gravel bottom; Manzanillo, Mexico (P).
- 778 *Clathrodrillia thestia* DALL, 1919. Rare (3, 4), dredged 10-20 fms. on rock and gravel bottom (P).
- * *Clathrodrillia bicarinata* SHASKY, 1961. Uncommon (3, 6), dredged 15-90 fms.; Espiritu Santo Island, Gulf of California (D, K).
- 780* *Crassispira adana* (BARTSCH, 1950). Rare (3), dredged 17 fms. on rock and gravel bottom; Manzanillo, Mexico (P).
- 783* *Crassispira albovallosa* (CARPENTER, 1857). Rare (3), dredged 17 fms. on rock and broken shell bottom; Mazatlan, Mexico (P).
- 786* *Crassispira aterrima* (SOWERBY, 1834). Uncommon (2, 6), intertidal under rocks; Mazatlan, Mexico (D, K, P).
- 790* *Crassispira bacchia* DALL, 1919. Uncommon (1, 2, 3, 5), intertidal under rocks; dredged 17 fms. on rock bottom; La Paz, Lower California (B, D, P).
- 792 *Crassispira bottae* (KIENER, 1839-40, ex VALENCIENNES MS). Uncommon (3), dredged 17 fms. on rock bottom; diving 6-12 m (M, P).
- 794* *Crassispira brujae* HERTLEIN & STRONG, 1951. Rare (3), dredged 17 fms. on rock and broken shell bottom; southern part of Gulf of California (B, P).
- 801* *Crassispira epicasta* DALL, 1919. Rare (1, 3), dredged 10-17 fms. on rock and gravel bottom; Acapulco, Mexico (P).
- 802* *Crassispira erebus* PILSBRY & LOWE, 1932. Common (1, 3, 4, 5, 8), intertidal on rocks; dredged 10-20 fms. on rock and gravel bottom; southern Mexico (K, P).
- 803* *Crassispira ericana* HERTLEIN & STRONG, 1951. Uncommon (3, 5, 6), dredged 10-25 fms. on silt and shell bottom; southern part of Gulf of California (D, K).
- 806* *Crassispira excentrica* (SOWERBY, 1834). Rare (3, 4), dredged 15-20 fms. on rubble and sand bottom; Acapulco, Mexico (D, P).
- 807* *Crassispira flavonodosa* PILSBRY & LOWE, 1932. Uncommon (1, 3), dredged 10-17 fms. on rock and broken shell bottom; Nicaragua (P).
- 809* *Crassispira grandimaculata* (C. B. ADAMS, 1852). Uncommon (3, 4), dredged 10-20 fms. on rock and gravel bottom; Nicaragua (P).
- 811* *Crassispira hermanita* PILSBRY & LOWE, 1932. Rare (3, 4), dredged 12-17 fms. on rock and gravel bottom; Acapulco, Mexico (P).
- 821 *Crassispira nigerrima* (SOWERBY, 1834). (5, 6), dredged 10-45 fms. on rock and sand bottom (D, K, SBM).
- 822 *Crassispira nymphia* PILSBRY & LOWE, 1932. Common (2, 6), intertidal under rocks; diving 3-6 m (B, D, M, P, SBM).
- 825 *Crassispira pluto* PILSBRY & LOWE, 1932. Common (2, 5, 6, 8), intertidal under rocks; dredged 40 fms.; type locality (B, D, K, M, P, SBM).
- 826* *Crassispira reigeni* (BARTSCH, 1950). Uncommon (2), intertidal under rocks; Mazatlan, Mexico (P).
- 829* *Crassispira rustica* (SOWERBY, 1834). Rare (3), dredged 17 fms. on rock and gravel bottom; Nicaragua (P).
- 830* *Crassispira solitaria* PILSBRY & LOWE, 1932. Rare (1, 3, 4), dredged 17 fms. on rock and gravel bottom; Mazatlan, Mexico (B, P).
- 833 *Crassispira tepocana* DALL, 1919. Rare (2, 3, 6), in-

- tertidal under rocks; dredged 17-25 fms. on rock and gravel bottom (D, K, P).
- 836 *Crassispira turricula* (SOWERBY, 1834). Rare (4), dredged 15 fms. on rock and gravel bottom (P).
- 839 *Crassispira xanti* HERTLEIN & STRONG, 1951. (6), diving 6-12 m (M).
Crassispira cortezi SHASKY & CAMPBELL, 1964. (6), diving 10-15 m; type locality (SHASKY & CAMPBELL, 1964).
- * *Crassispira kluthi* JORDAN, 1936. Common (2, 3, 4, 5), dredged 7-20 fms. on rock and gravel bottom; diving 3-6 m; Pleistocene, Magdalena Bay, Lower California (B, K, M, P).
- * *Crassispira* cf. *C. punctatostriata* CARPENTER, 1857. Uncommon (3), dredged 17 fms. on rock and gravel bottom; Panama (D, P).
- 841* *Hindsiclava andromeda* (DALL, 1919). Uncommon (6), dredged 15-25 fms. on broken shell and silt bottom; La Paz, Lower California (D).
- 843 *Hindsiclava militaris* (REEVE, 1843, ex HINDS MS.). Common (3, 4, 5, 6), dredged 10-40 fms. on sand and silt bottom (K, P, S, SBM).
- 844* *Syntomodrillia cybelé* PILSBRY & LOWE, 1932. Common (1, 3, 4, 6), dredged 10-60 fms. on rock and gravel bottom; Acapulco, Mexico (D, P).
- 846* *Mangelia bella* (HINDS, 1843). (3), dredged 7-20 fms. on sand and rubble bottom; Nicaragua (D, K).
- 850* *Mangelia ericea* (HINDS, 1843). Rare (3, 4), dredged 17 fms. on rock and gravel bottom; Panama (D).
- 851 *Mangelia erminiana* (HERTLEIN & STRONG, 1951). Rare (3), dredged 15 fms. on rock and broken shell bottom (B, P).
- * *Mangelia janira* (DALL, 1919). Under rocks (6); San Diego, California (D).
- 852* *Mangelia merita* (HINDS, 1843). Uncommon (6), intertidal under rocks; Costa Rica (P).
- 853* *Diptycophila occata* (HINDS, 1843). Rare (4), dredged 5 fms. on sand bottom; Panama (B).
- 854 *Mangelia rhyssa* DALL, 1919. (2), intertidal under rocks near sand beach (K).
- 858 *Mangelia aethra* (DALL, 1919). Common (1, 3, 4), dredged 10-20 fms. on rock and gravel bottom (B, D, K, P).
- 859 *Mangelia electra* (DALL, 1919). Rare (3), dredged 17 fms. on rock and gravel bottom (P).
- 860* *Mangelia fnitima* (PILSBRY & LOWE, 1932). Rare (1, 3, 4, 6), intertidal under rocks; dredged 15-20 fms. on rock and broken shell bottom; Nicaragua (P).
- 862 *Mangelia melita* (DALL, 1919). Rare (3), dredged 17 fms. on rock and gravel bottom (D, P).
- 863a *Mangelia euryclea* DALL, 1919. Rare (3), dredged 17 fms. on rock and gravel bottom (D, P).
- 866* *Mangelia subdiaphana* CARPENTER, 1864. (3), dredged 15-20 fms.; Cape San Lucas (D).
- * *Crockerella pedersenii* HERTLEIN & STRONG, 1951. Rare (3), dredged 17 fms. on rock and gravel bottom; Santa Inez Bay, Gulf of California (P).
- 867* *Mangelia antiochroa* PILSBRY & LOWE, 1932. (5), dredged 10 fms. on sand bottom; Panama (S).
- 868* *Mangelia antipyrus* PILSBRY & LOWE, 1932. Rare (3, 4), dredged 10-17 fms. on rock and broken shell bottom; Acapulco, Mexico (D, P).
- 869* *Mangelia cymatias* PILSBRY & LOWE, 1932. Rare (1, 2, 3, 4), intertidal under rocks; dredged 10 fms. on rock and gravel bottom; Acapulco, Mexico (K, P).
- * *Mangelia melanosticta* PILSBRY & LOWE, 1932. Rare (3), dredged 17 fms. on rock and broken shell bottom; Nicaragua (P).
- * *Mangelia roperi* DALL, 1919. Rare (3), dredged 15-17 fms. on rock and broken shell bottom; Pacific coast of Lower California (P).
- 871* *Clathurella affinis* DALL, 1871. Rare (1, 3, 6), intertidal under rocks; dredged 17 fms. on rock and gravel bottom; diving 6 m; Cape San Lucas (B, D, P).
- 874* *Clathurella rava* (HINDS, 1843). Rare (1, 3, 4), dredged 10-20 fms. on rock and gravel bottom; Nicaragua (D, P).
- 875* *Clathurella rigida* (HINDS, 1843). Rare (1, 3), dredged 17-30 fms. on rock and gravel bottom; Panama (P).
- 879 *Clathurella parteflosa* (DALL, 1919). Rare (3, 6), dredged 15-60 fms. on rock and gravel bottom (B, D, P).
- 881* *Clathurella acapulcana* (PILSBRY & LOWE, 1932). Rare (3, 6), dredged 15-25 fms.; Acapulco, Mexico (D, P).
- 883 *Clathurella adria* (DALL, 1919). Uncommon (1, 2, 3, 4, 5), dredged 5-20 fms. on sand and gravel bottom (D, K, P).
- * *Clathurella fraternalis* (DALL, 1919). Rare (1, 3, 4), dredged 10-17 fms. on rock and gravel bottom; Cape San Lucas (P).
- * *Clathurella nana* (DALL, 1919). Rare (3), dredged 17 fms. on rock and gravel bottom; La Paz, Gulf of California (P).
- 884* *Clathurella armstrongi* (HERTLEIN & STRONG, 1955). Rare (3, 6), dredged 17-60 fms. on rock and gravel bottom; Panama (D, P).
- * *Clathurella trichoides* (DALL, 1919). (6), diving 6-12 m; Panama Bay (M).
- * *Notocytharella penelope* (DALL, 1919). Rare (3),

- dredged 10 fms. on sand bottom; Agua Verde Bay (D).
- * *Notocytharella taeniornata* PILSBRY & LOWE, 1932. Rare (3), dredged 17 fms.; Nicaragua (D).
- 888* *Notocytharella ephaedra* (DALL, 1919). Uncommon (3, 4), dredged 10-17 fms. on rock and gravel bottom; Panama (P).
- 889* *Notocytharella hastula* (PILSBRY & LOWE, 1932). Rare (5), dredged 10-15 fms. on sand and gravel bottom; Nicaragua (SBM).
- 892* *Tenaturris burchi* (HERTLEIN & STRONG, 1951). Uncommon (3, 4, 6), dredged 17 fms. on rock and gravel bottom; southern part of Gulf of California (D, P).
- 893* *Tenaturris carissima* (PILSBRY & LOWE, 1932). Rare (3), dredged 17 fms. on rock and gravel bottom; Mazatlan, Mexico (D, P).
- 894* *Tenaturris nereis* (PILSBRY & LOWE, 1932). Uncommon (3, 6), intertidal under rocks; rare dredged 17 fms. on rock and gravel bottom; diving 6-12 m; Nicaragua (D, M, P, SBM).
- 898* *Turricula hexagona* (SOWERBY, 1834). Rare (3, 6), dredged 17-40 fms. on rock and gravel bottom; El Salvador (K, P).
- 899* *Tiariturrus libya* (DALL, 1919). (6), dredged 20-40 fms.; Cape San Lucas (B).
- 901 *Turricula armilda* (DALL, 1908). Uncommon (6), dredged 45-125 fms. (D, S, SBM).
- 907* *Turricula panthea* DALL, 1919. (5), dredged 10-15 fms. on sand and gravel bottom; Panama Bay (SBM).
- 908 *Hormospira maculosa* (SOWERBY, 1834). Common (1, 3, 6), intertidal on muddy, rocky reefs; uncommon dredged 40 fms. (B, D, K).
- 909 *Pleuroliria artia* BERRY, 1957. Uncommon (1, 3, 5, 6), dredged 10-100 fms. on rock and gravel bottom (D, K, P, S).
- 910 *Pleuroliria nobilis* (HINDS, 1843). Common (4, 6), dredged 15-100 fms. on sand and broken shell bottom (B, D, K, P, S).
- 911 *Pleuroliria oxytropis* (SOWERBY, 1834). (1, 3, 5, 6), dredged 10-100 fms. (K, P, S, SBM).
- 911a *Pleuroliria oxytropis albicarinata* (SOWERBY, 1870). Common (1, 2, 3, 4, 5, 6), dredged 10-100 fms. on rubble bottom (D, K, P, S).
- 912* *Pleuroliria parthenia* BERRY, 1957. Rare (3, 6), dredged 10-100 fms. on sand and rubble bottom; Costa Rica (D, K).
- 913 *Pleuroliria picta* (REEVE, 1843, ex BECK MS.). Common (2, 3, 4, 5, 6), dredged 10-100 fms. on rubble bottom; diving 3-6 m (B, D, K, M, P, S).
- 915 *Tiariturrus spectabilis* BERRY, 1958. (6), dredged 20-40 fms. (B).
- 917 *Conus brunneus* WOOD, 1828. Common (2, 3, 5, 6), intertidal among rocks; diving 6-12 m (B, D, M, P, S, SBM).
- 920 *Conus gladiator* BRODERIP, 1833. Common (2, 3, 6), intertidal under rocks; uncommon dredged 17 fms. on rock bottom; diving 6-12 m (B, D, K, M, P).
- 921 *Conus nux* BRODERIP, 1833. Common (2, 4, 5, 6), intertidal on rocky ledges; dredged 10 fms. on rock bottom; diving 3-6 m (B, D, K, M, P, S, SBM).
- 922 *Conus princeps* LINNAEUS, 1758. Common (2, 5, 6), intertidal on rocky ledges and in tide pools; diving 6-12 m (B, D, K, M, P, S, SBM).
- 923* *Conus tiaratus* SOWERBY, 1833, ex BRODERIP MS. Rare (6), taken from surface of large rocks at 5 m (CAMPBELL, 1964); southern Mexico.
- 926 *Conus perplexus* SOWERBY, 1857. (1, 4), on sand beach at low tide; dredged 10-40 fms. (B, D, K, SBM).
- 927 *Conus purpurascens* SOWERBY, 1833, ex BRODERIP MS. Uncommon (2, 6), intertidal among rocks; diving 6-12 m (B, D, K, M, P, S, SBM).
- 928 *Conus tornatus* SOWERBY, 1833, ex BRODERIP MS. Uncommon (1, 3, 5, 6), dredged 10-45 fms. on sand and gravel bottom (B, K, P, S, SBM).
- 929 *Conus vittatus* BRUGUIÈRE, 1792. Rare (6), taken by Dr. Shasky, diving 10 m, under a rock (D).
- 930 *Conus ximenes* GRAY, 1839. Common (2, 3, 4, 5, 6), intertidal on sand bars; dredged 10 fms. on sand bottom; diving 6-12 m (B, D, K, M, P, SBM).
- 931 *Conus mahogani* REEVE, 1843. Uncommon (2, 3, 4), intertidal on sand bars; dredged 10 fms. on sand bottom (B, D, P).
- * *Conus orion* BRODERIP, 1833 (3), dredged 17 fms. on broken shell and rock bottom; second living specimen reported in the Gulf of California (P).
- 935 *Conus archon* BRODERIP, 1833. Uncommon (3, 5, 6), dredged 5-20 fms. on sand and rubble bottom (B, K).
- 936 *Conus arcuatus* BRODERIP & SOWERBY, 1829. Uncommon (3, 6), dredged 10-100 fms. on rock and gravel bottom (B, D, K, P).
- 938 *Conus fergusonii* SOWERBY, 1873. Uncommon (1, 3, 9), intertidal in sand and around rocks; dredged 10-20 fms. on rock bottom (B, D, P).
- 939 *Conus gradatus* WOOD, 1828. Uncommon (1, 3, 4, 6), dredged 10-40 fms. on sand and rubble bottom (B, P).
- 940 *Conus recurvus* BRODERIP, 1833. (2, 6) dredged 15-25 fms. on sand and rubble bottom (B, D, K).

- 941 *Conus regularis* SOWERBY, 1833. Common (1, 2, 3, 4, 5, 6), intertidal on silt and sand bars; dredged 10-15 fms. on silt and sand bottom (B, D, K, M, P, S, SBM).
- 942 *Conus scalaris* VALENCIENNES, 1832. Common (3, 5, 6), dredged 10-40 fms. on sand and rubble bottom (B, K, P).
- 944 *Conus virgatus* REEVE, 1849. Uncommon (1, 2, 3, 5, 6, 9), intertidal in pools; common dredged 10-25 fms. on rock bottom (B, D, K, M, P, S, SBM).
- 946* *Terebra lingualis* HINDS, 1844. Uncommon (1, 3, 5, 6), dredged 10-25 fms. on rock and gravel bottom; Mazatlan, Mexico (B, D, K, P, SBM).
- 947* *Terebra ornata* GRAY, 1834. Rare (1, 3, 6), dredged 10-30 fms. on rock and gravel bottom; diving 6-12 m; Panama (B, M, P).
- 948 *Terebra robusta* HINDS, 1844. Uncommon (3, 4, 5, 6), crawling in sand at low tide, feeding on dead octopus tentacle; dredged 15-25 fms. (D, P).
- 949 *Terebra strigata* SOWERBY, 1825. Rare (2, 4, 6), intertidal among rocks; dredged 10-40 fms. on sand and rock bottom; diving 3-6 m (B, D, M, P).
- 950* *Terebra iola* PILSBRY & LOWE, 1932. (3, 5), dredged 10-15 fms.; Mazatlan, Mexico (B, K).
- 951* *Terebra isopleura* PILSBRY & LOWE, 1932. Rare (1, 4), crawling on sand, extreme low tide; dredged 10 fms. on silt bottom; Mazatlan, Mexico (D, P).
- 953* *Terebra polypenus* PILSBRY & LOWE, 1932. Uncommon (3), dredged 17 fms. on rock and gravel bottom; Mazatlan, Mexico (P).
- 956 *Terebra armillata* HINDS, 1844. Common (3, 4, 5, 9), crawling on sand beach; dredged 5-20 fms. on rock and gravel bottom (D, P).
- 963 *Terebra glauca* HINDS, 1844. Common (3), dredged 10 fms. on silt and sand bottom (P).
- 964 *Terebra hindsii* CARPENTER, 1857. (4), dredged 6 fms. (D).
- 966* *Terebra ira* PILSBRY & LOWE, 1932. Uncommon (3, 4), dredged 17 fms. on rock and gravel bottom; Mazatlan, Mexico (D, P).
- 968 *Terebra ligyrus* PILSBRY & LOWE, 1932. Uncommon (3, 7, 9), in sand at edge of water; dredged 15 fms. on rock and gravel bottom (B, D, P).
- 970 *Terebra malonei* VANATTA, 1925. (4), dredged 5 fms. (D).
- 971* *Terebra melia* PILSBRY, 1931. Uncommon (3), dredged 17 fms. on rock and gravel bottom; Panama (P).
- 973 *Terebra panamensis* DALL, 1908. Rare (1, 3), dredged 17 fms. on rock and gravel bottom (P).
- 980 *Terebra variegata* GRAY, 1834. Common (1, 2, 3, 4, 5, 6), intertidal on sand bars; dredged 10-15 fms. on sand and silt bottom (D, P, SBM).
- Terebra churea* CAMPBELL, 1964. Uncommon (1, 3, 4, 5, 6), dredged 10-60 fms. on silt bottom; type locality (D, P, SBM).
- * *Terebra dushanae* CAMPBELL, 1964. Rare (4), dredged 10 fms. on rock and broken shell bottom; Puertecitos, Gulf of California (P).
- 982 *Bulla gouldiana* PILSBRY, 1895. Common (2, 3, 4, 6), intertidal on silt among rocks; dredged 15 fms. among rocks (B, D, K, P, SBM).
- 983 *Bulla punctulata* A. ADAMS in SOWERBY, 1850. Uncommon (2, 3), intertidal in silt among rocks; dredged 15 fms. among rocks (P).
- 984 *Haminoea angelensis* BAKER & HANNA, 1927. Uncommon (1, 2, 3, 4, 6, 8), intertidal among rocks; dredged 10-17 fms. on gravel bottom (B, K, P, SBM).
- 986 *Haminoea strongi* BAKER & HANNA, 1927. Common (2, 6, 8), intertidal among rocks; dredged 7-20 fms. on sand and gravel bottom (K, SBM).
- 987* *Atys casta* CARPENTER, 1864. Rare (1, 3), dredged 10-17 fms. on gravel bottom; Cape San Lucas, Gulf of California (P).
- 988 *Atys chimera* BAKER & HANNA, 1927. Rare (1, 3), dredged 10-17 fms. on gravel bottom (P).
- 989 *Atys liriope* HERTLEIN & STRONG, 1951. Rare (3), dredged 17 fms. on rock and gravel bottom (P).
- 990 *Acteon traskii* STEARNS, 1897. Uncommon (1, 4, 5), dredged 10-15 fms. on rock and gravel bottom (B, P, SBM).
- 991* *Acteon panamensis* DALL, 1908. Uncommon (1, 3), dredged 10-17 fms. on gravel bottom; Panama (P).
- 992 *Acteocina angustior* BAKER & HANNA, 1927. Uncommon (1, 2, 3, 5), dredged 7-20 fms. on rock and gravel bottom (D, K, P, S).
- 993* *Acteocina carinata* (CARPENTER, 1857). (5), in sand siftings; Mazatlan, Mexico (B).
- * *Cylichnella defuncta* BAKER & HANNA, 1927. Rare (3), dredged 15 fms. on silt bottom; San José Island, Gulf of California (P).
- * *Berthelinia chloris belvederica* KEEN & A. G. SMITH, 1961. (6); Puerto Ballandra, La Paz, Lower California (SBM).
- 1000 *Pyramidella adamsi* CARPENTER, 1864. Rare (3, 5), intertidal among rock and sand; dredged 5 fms. on sand and rubble bottom (B, D).
- 1001* *Pyramidella bicolor* MENKE, 1854. (5), dredged 10-15 fms.; southern Mexico (S, SBM).
- 1003 *Pyramidella mazatlanica* DALL & BARTSCH, 1909. (4, 5, 6), dredged 10-45 fms. on sand and rubble bottom (K, P, S).

- 1007* *Pyramidella panamensis* DALL & BARTSCH, 1909 (3, 5), dredged 10-15 fms. on sand and gravel bottom; Panama Bay (B, SBM).
- 1009* *Pyramidella* cf. *P. linearum* PILSBRY & LOWE, 1932. (5), dredged 10-15 fms. on sand bottom; Acapulco, Mexico (K).
- * *Chrysallida reigeni* CARPENTER, 1857. (5), among rock and sand; Mazatlan, Mexico (B).
- * *Chrysallida telescopium* CARPENTER, 1857. (5), among rock and sand; Mazatlan, Mexico (B).
- * *Chrysallida vizcainoana* BAKER, HANNA & STRONG, 1928. (5), among rock and sand; Agua Verde Bay (B).
- * *Salassiella laxa* DALL & BARTSCH, 1909. (5), among rock and sand; Scammon's Lagoon, Lower California (B).
- * *Odostomia salassia scalariformis* CARPENTER, 1857. (5), in sand siftings; Mazatlan, Mexico (B).
- * *Odostomia vividella mendozae* BAKER, HANNA & STRONG, 1928. (5), in sand siftings; Cape San Lucas, Lower California (B).
- * *Odostomia miralda planicostata* BAKER, HANNA & STRONG, 1928. (5), in sand siftings; Cape San Lucas, Lower California (B).
- * *Turbonilla muricata* CARPENTER, 1857. (5), among rock and sand; Mazatlan, Mexico (B).
- * *Turbonilla portoparkerensis* HERTLEIN & STRONG, 1951. (3), dredged 17 fms. on rock and gravel bottom; Costa Rica (D).
- * *Turbonilla vesperis* PILSBRY & LOWE, 1932. (3), dredged 15-35 fms.; Acapulco, Mexico (B).
- 1011 *Pleurobranchus* cf. *P. digueti* ROCHEBRUNE, 1895. (6), taken by Dr. Shasky, diving 3-10 m (D).
- 1021 *Melampus olivaceus* CARPENTER, 1857. Common (7, 9), intertidal in esteros and among mangrove roots (D, P, S).
- 1023 *Melampus tabogensis* C. B. ADAMS, 1852. Rare (2), intertidal among mangrove roots (P).
- * *Tyrodina fungina* GABB, 1865. Rare (6), at low tide, under rock; San Diego, California (D).
- 1032 *Siphonaria maura* SOWERBY, 1835. Uncommon (2, 4, 5, 6), intertidal on rocks (B, K, M, P, S).
- 1033 *Williamia peltoides* (CARPENTER, 1864). Uncommon (1, 6), dredged 10 fms. on gravel bottom; diving 6-12 m (M, P, SBM).
- 1037 *Onchidella binneyi* (STEARNS, 1893). (6), (SBM).
- 14 *Ischnochiton eucosmius* DALL, 1919. (4), attached to rocks (P).
- 16 *Ischnochiton muscarius* (REEVE, 1847). Common (2), on rocks at extreme low tide (P).
- 23 *Ischnochiton tridentatus* PILSBRY, 1893. Common (2, 4, 6), under rocks at extreme low tide; dredged 17 fms. on rock bottom (B, M, P, SBM).
- 27 *Callistochiton gabbi* PILSBRY, 1893. Common (6), under rocks (B, M, SBM).
- 28 *Callistochiton infortunatus* PILSBRY, 1893. Common (3, 4, 6), under rocks; dredged 10-15 fms. on gravel bottom (B, M, P, SBM).
- 37 *Chaetopleura mixta* (DALL, 1919). Uncommon (3, 6), dredged 17-90 fms. on broken shell bottom; diving 10 m (D, M, P).
- 38 *Chaetopleura euryplax* BERRY, 1945. (6), under rocks (B, M, SBM).
- 42 *Lepidozona subtilis* BERRY, 1956. (7), under rocks; type locality (B, M).
- 44 *Stenoplax limaciformis* (SOWERBY, 1832). Common (2, 4, 5), under rocks (B, D, P, SBM).
- 46 *Stenoplax mariposa* (DALL, 1919). Uncommon (1, 4, 6), under rocks and on ledges (B, M, P, SBM).
- 47 *Stenoplax conspicua sonorana* BERRY, 1956. Common (4, 5, 6), on rocks (B, D, M, SBM).
- 49 *Nuttallina crossota* BERRY, 1956. Rare (6), on rock ledges (B, M, SBM).

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