# A TAXONOMIC LISTING OF SOFT BOTTOM MACROINVERTEBRATES

from
Infaunal Monitoring Programs in the Southern California Bight

**Edition 1** 

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Prepared for

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and

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Prepared by
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The compilers of this list intend that it undergo regular updates. SCAMIT hopes to maintain the list as a useful document to those involved with infaunal monitoring programs within the southern California Bight. To this end we solicit the users' assistance. Please forward any comments, corrections, or suggested additions you may have to:

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# Southern California Association of Marine Invertebrate Taxonomists

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Taxonomic standardization; assuring that the same name is applied to an organism by different taxonomists within the region each time that organism is encountered, is an important element in any regional biological monitoring program. Compatibility of taxonomy-based data generated by agencies and organizations contributing to a regional monitoring program is essential if the full value of these surveys is to be realized. There are two obstacles to achieving this goal: the complexity and fluidity of invertebrate taxonomy; and the differences in expertise, experience, and opinion of taxonomists involved in monitoring within the region. While these obstacles hinder us from fully achieving this goal, a great deal can be accomplished in its pursuit. Central to that effort is regional cooperation and communication among the taxonomists responsible for the surveys.

The Southern California Association of Marine Invertebrate Taxonomists (SCAMIT) was formed in 1982 to promote the study of invertebrate taxonomy and develop a regionally standardized taxonomy of marine invertebrates within the region. Its membership includes virtually all the taxonomists responsible for the conduct of infaunal monitoring programs in southern California coastal waters. Its activities include monthly meetings, workshops, and communication of taxonomic information to its membership through a monthly newsletter.

This list of invertebrates from the soft bottom habitat of the Southern California Bight is a contribution of SCAMIT toward the development of regionally coordinated monitoring in the Bight. It is a first attempt to compile a list of species for which taxonomy is standard within the region. That is, a list of species names that are uniformly and consistently applied to organisms by taxonomists conducting monitoring programs in the Bight. It is a conservative document, constrained by both the information base from which it is derived and in the criteria for inclusion of a taxon on the list. It is also an interim document requiring future updating, as additional species are encountered in the contributing programs. The list must also incorporate nomenclatural changes resulting from revisionary systematic studies. A formal procedure for periodic updating should be established. Because of its organizational goals, activities, and the nature of its membership, SCAMIT is well

suited to carry out procedures developed to this end. In anticipation of such a procedure and subsequent versions, this list is identified as Edition 1 and the date SCAMIT closed the compilation process is repeated on each page.

Caution is required in the use of this or any other "master species" list. Taxonomic listings do not in themselves constitute standardization of taxonomic usage. They are only tools that contribute to standardization, both as a product and in the process of their development and maintenance. It is important that those responsible for the development of regional monitoring not attempt to impose on contributing surveys an artificially rigid taxonomy based upon a static list of standard names. Such an approach would inevitably lead to poorer quality survey data. Some differences in taxonomy and nomenclatural usage will continue to appear in data sets originating from contributing surveys. Most of these will reflect either change in the species encountered or new revisionary work. Some will represent non-standard usage despite efforts such as this listing and the regular activities of SCAMIT. Regional data-management systems must allow for this fluidity, allowing both growth and emendation of the list as discussed above, and revision of past results to conform to current usage.

#### Geographic Limits

This document provides a list of macro-invertebrates from the soft-bottom habitat of the Southern California Bight, defined here as Point Conception to the Mexican Border in depths from 15 to 350 meters. For the purposes of this list macro-invertebrates are defined as those organisms retained upon a 1 mm mesh screen, the standard screen size used in infaunal monitoring studies in the Bight. The user should keep in mind that the information base from which the list was derived was limited to infaunal survey data collected in the environmental monitoring programs of publicly operated wastewater treatment works (POTWs). Therefore, coverage within the Bight is biased by the distribution of sampling efforts associated with these monitoring programs (see Table for list of contributing programs). The largest programs are associated with the metropolitan areas of Los Angeles/Orange County and San Diego and the fauna occurring in these areas is probably well represented. North of the Los Angeles region, monitoring programs are fewer in number and smaller in scale. As a result, the fauna from this northern area of the Bight is under-represented on the list. Similarly, the depth range of 15 to 350 meters is defined by the range of depths covered by the monitoring programs. Within this range most sampling effort is expended at depths from 30 to 150 meters and the fauna from this depth range is better represented then those from shallower or deeper water. In addition, the list is confined to organisms taken in infaunal monitoring programs so few large epifaunal organisms are represented. It should also be noted that while the source programs are directed at monitoring soft-bottom communities, habitats are not so clearly segregated in nature. Many of the sampling programs, particularity those sampling the inshore soft-bottom, include ecotonal areas and patches of cobble or hard bottom. These support communities that are significantly different from those of the soft-bottom habitat. These ecotones and habitat patches within the sampling areas account for the presence of many epifaunal or hard bottom associates on the list.

#### **Process of Compilation**

The regular meetings of taxonomists responsible for the monitoring surveys in the region, conducted monthly by SCAMIT, provided the mechanism for construction of the list. In addition to these regular meetings, written requests for information and review were sent to selected SCAMIT

members. There were also several separate meetings held to deal with editorial and formatting questions. The process proceeded in two stages: compilation of a base list drawing upon the four largest monitoring programs in the Bight, followed by addition of information, when available, from the smaller programs.

The base list was compiled from encountered-species lists from the infaunal monitoring programs of the Bureau of Sanitation, City of Los Angeles (Hyperion); the County Sanitation Districts of Los Angeles County; the County Sanitation Districts of Orange County; and the Department of Water Utilities, City of San Diego. The encountered-species lists provided by these agencies covered a range of time spans, from 8 to 21 years prior to present. The base list was broken into phylogenetic groupings (phylum or class level) for review by SCAMIT members with expertise in each group and knowledge of the history of the programs from which the data were derived. This latter factor is important given the long term nature of the programs from which the list was derived. These programs have been in place since as early as 1972. There is substantial potential for confusion of species identities because of the many taxonomists involved over the period. Every species name on the base list was subject to review and discussion prior to acceptance on the final list. Names retained were those 1) found to have been applied to taxa recognized as unique and 2) for which consensus among SCAMIT reviewers existed as to the name used to represent these taxa. Consensus here does not imply unanimity of opinion, but an agreement to accept a standard use of a name in the interest of regional conformity. Conflicts of opinion were resolved by review of appropriate literature and, in many cases, re-examination of voucher specimens by the reviewers.

Following compilation of the list from the four largest programs, encountered-species lists from monitoring programs conducted by the smaller POTWs in the Bight and studies conducted by the Southern California Coastal Water Research Project (SCCWRP) were reviewed. This latter stage was hindered by the general absence in the smaller monitoring programs of easily accessible databases from which to draw encountered-species lists, frequent changes in contractors performing the sample analysis, and the unavailability of the taxonomists responsible for the data. The encountered species lists received were typically from the most recent surveys, although the actual time spans were not given. Approximately 10% of the species on the final list were added as a result of review of the small POTW encountered species lists.

The process of compilation resulted in a list which is generally exclusive in nature. Many taxa names reported in the contributed species lists were eliminated by the reviewers, frequently because of the absence of voucher specimens or documentation allowing their confirmation. Inevitably, some taxa names eliminated will later be found acceptable. In addition, voucher specimens were not examined in all cases and some taxa deemed uncontroversial may later be discovered to be inconsistent in application or otherwise unacceptable. It is anticipated that this list will grow and change during future updates.

#### **Conventions**

Arrangement of the list is hierarchical. For ease of use each taxonomic category is offset from the next higher category. Each category above genus is, moreover, indicated directly by inclusion with the taxon itself to avoid ambiguity (eg. Subphylum Echinozoa). The categories used are phylum, subphylum, class, subclass, superorder, order, suborder, infraorder/superfamily, family, genus and species. Either infraorder or superfamily is used, but not both together. Which is used depends on

which has greater recognition for the group in question. For instance, superfamily is used for mollusks, while for reptantiate decapods infraorder has greater utility. Species are arranged alphabetically within each family. Authorship is attributed in conformance with ICZN rules. The listing of genus level identifications (eg. Bimeria sp) represents the degree to which the taxonomy of these taxa is known in the region. This form is also used in cases where the only specimens representing the genus were indeterminable due to poor condition. It is regional practice to identify some groups of organisms at family or higher level. An example is harpacticoid copepods, which are reported at the ordinal level. For these taxa the term "unidentified" appears in the binomen position. The level at which they are typically reported is indicated by the lowest level taxon provided in the hierarchy.

The degree of detail in the use of higher taxonomic categories varies between groups. In groups where there are both large numbers of species and wide variations in form, numerous categories are listed between the phylum and genus level (arthropods, for example). In poorly represented groups with few species (eg. cephalochordates) there may be few categories listed between phylum and family.

To assist in quick navigation through this mass of information an index to all names in the list with their corresponding line number is provided. Within the list the following typographic conventions have been employed:

#### PHYLUM LEVEL IS ALL CAPS

#### Family level is bolded

Genus and species are in italics

Included in the list are a large number of unpublished provisional species names erected by workers in the area. These names are applied to organisms suspected of being new species or whose identities cannot be determined from available literature. Provisional names are typically in the form of a generic name followed by the word "species" (abbreviated as sp) and an alphabetic or numeric designator. In the few cases where the genus is also considered new, the lowest taxon recognized is followed by the term "genus" and a designator as above (eg. Megaluropidae genus A sp A). In cases were the allocation of a taxon is uncertain, the levels at which uncertainty exists are indicated (eg. family uncertain, suborder uncertain, etc.). Ideally, a provisional name is provided as a temporary designation pending resolution of the organism's identity through further research or publication. In practice, many have become long standing, stable, and widely recognized taxa names within the region. Many have been subject to examination and their descriptions distributed through the activities of SCAMIT (1982 to present) or its antecedent, the SCCWRP Taxonomic Standardization Program (1973-1980). For this reason, as well as the significant proportion of the listed taxa they represent (=11%), these provisional species names have been included in the list. The unpublished provisional names are distinguished from formally erected species and provisional names published in the literature by the symbol § following the author. Authorship is attributed for provisional names to tie them to specific taxonomists, specimens, and diagnoses. Attribution of authorship of these unpublished names does not follow a rule of priority, but attempts to indicate the most recent and/or complete source of information regarding the species. The date provided represents the date of erection by the author or, as in the case of SCAMIT-erected species, the date of distribution of diagnoses or descriptions. Provisional species names for which there is no regional recognition or available diagnoses are not included.

Two conditional designations are used in the list. The term confer (abbreviated as cf) inserted in the binomen indicates that the organism closely resembles the nominal species but its actual identity is in question. The presence of quotation marks (" ") around a specific (trivial) name indicates that the listed taxon is recognized as having a high degree of poorly defined variability and is believed to be a member of an un-discriminated species complex. Because of this variability it is possible that more than one species is included in the taxon.

#### **Authority List for Taxonomic Information**

A broad range of sources was used in construction of the hierarchical listing of organisms. The overall basis is that embodied in An Annotated Checklist of Marine Invertebrates in the Cold Temperate Northeast Pacific (Austin 1985). The formation of superfamily names follows recommendation 29A of the International Code of Zoological Nomenclature (Ride 1985). With this exception and those listed below, all of the classification above genus level is derived from Austin (op. cit.). Genus level taxa names and the distribution of species among genera are derived from multiple sources in the recent literature.

## Phylum Porifera

No exceptions

#### Phylum Cnidaria

Retention of Muriceidae as a valid family follows Ljubenkov 1980. Placement of species not recorded by Austin follows Ljubenkov 1980.

#### Phylum Platyhelminthes

No exceptions

#### Phylum Nemertea

Cerebratulidae treated as a subfamily of Lineidae follows McEwen 1980.

#### Phylum Mollusca

Family level treatment in the Trochacea follows Hickman & McLean 1990.

Inconsistencies in subordinal taxonomy in Mesogastropoda preclude use of subordinal taxa.

Treatment of Rapanidae as a subfamily within Muricidae follows Turgeon et al. 1988.

Use of Fasciolariidae instead of Fusinidae follows Turgeon et al 1988.

Distribution of superfamilies within the Order Cephalaspidea follows Turgeon et al. 1988.

Allocation of cephalaspid genera to families follows Turgeon et al. 1988.

Within the Order Nudibranchia superfamily level taxa are from Abbott 1974.

Classification of the Bivalvia follows Coan, Scott, & Bernard 1993.

Generic and family allocations in Scaphopoda follow Turgeon et al. 1988.

#### Phylum Sipuncula

no exceptions

## Phylum Echiura

no exceptions

#### Phylum Annelida

Classification of the Class Polychaeta follows Fauchald 1977. Use of Acoetidae instead of Polyodontidae follows Pettibone 1989. Use of Pholoidae instead of Pholoidae follows Pettibone 1984. Placement of *Pholoe* in Pholoidae follows Pettibone 1992 Use of Nereididae instead of Nereidae follows Pettibone 1971. Placement of *Artacamella* in Trichobranchidae follows Holthe 1977.

#### Phylum Arthropoda

Subphylum taxa are from Brusca & Brusca 1990.

Within Subphylum Crustacea, class level taxa are from McLaughlin 1980.

Austin's inclusion of the cumacean Cyclaspis in family Nannastacidae is a lapsus, it belongs in Bodotriidae (see inter alia Jones 1969).

Placement of the tanaid genera Araphura and Araphuroides in Leptognathiidae follows Sieg & Dojiri 1989.

Submersion of the families Pontogeneiidae and Calliopiidae into the Eusiridae follows Barnard & Karaman 1991.

Submersion of the family Uristidae into the Lysianassidae follows Barnard & Karaman 1991. Use of Megaluropidae as a valid family name follows Barnard & Karaman 1991.

Use of Podoceridae instead of Dulichiidae follows Barnard & Karaman 1991.

Retention of Sicyonidae at family level follows Dall et al. 1990.

Placement of Lysmata in the Hippolytidae follows Williams et al. 1989.

Austin incorrectly lists *Parapagurodes makarovi* as *Parapagurus*, placing it in the Parapaguridae rather than in Paguridae where it belongs (McLaughlin & Haig 1973).

#### Phylum Echinodermata

All differences in classification above family are from Maluf 1988.

#### Phylum Phoronida

no exceptions

#### Phylum Brachiopoda

no exceptions

#### Phylum Chordata

no exceptions

# Table

# CONTRIBUTING PROGRAMS

# **LARGE PROGRAMS**

# **SMALL PROGRAMS**

Agency	Contract Lab	Agency	Contract Lab
City of Los Angeles	,	Goleta Sanitary District	MBC Applied Environmental
County Sanitation Districts of Los Angeles			Sciences
County		City of Santa Barbara	MEC Analytical Systems
County Sanitation Districts of Orange County	MEC Analytical Systems	Carpenteria Sanitary District	ABC Labs
City of San Diego	_	City of Oxnard	ABC Labs
Southern California Coastal Water Research Project	_	Terminal Island Treatment Plant Outfall Study (City of Los Angeles)	MBC Applied Environmental Sciences
		South East Regional Reclamation Authority	SeaVentures
		City of Oceanside (polychaetes only)	Larry Lovell
		Encina Water Pollution Control Facility	MEC Analytical Systems
		San Elijo Joint Powers Authority	Kinnetic Laboratories
		Tijuana Outfall Extension Study	MBC Applied Environmental Sciences
		City of Avalon	ABC Labs & MBC Applied Environmental Sciences

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1	PHYLUM PORIFERA	
2	Class Calcarea	
3	Subclass Calcaronea	
4	Order Scycettida	
5	Family Amphoriscidae	
6	Leucilla nuttingi	(Hishan 1002)
7	Class Demospongiae	(Urban 1902)
8	Subclass Tetractinomorpha	
9	Order Axinellida	
10	Family Axinellidae	
11	Axinella sp	
12	PHYLUM CNIDARIA	
13	Class Hydrozoa	
14	Order Athecatae	
15	Suborder Capitata	
16	Superfamily Tubularoidea	
17	Family Corymorphidae	
18	Corymorpha palma	Torrey 1902
19	Euphysa sp A	Ljubenkov 1986 §
20	Syncoryne eximia	(Allman 1859)
21	Family Tubulariidae	<u>C</u>
22	Tubularia crocea	(L. Agassiz 1862)
23	Family Pennariidae	(2.71845512 1002)
24	unidentified	
25	Suborder Filifera	
26	Family Bougainvilliidae	
27	Bimeria sp	
28	•	(F1 1000)
29	Garveia formosa	(Fewkes 1889)
	Perigonimus "serpens"	T: 1 1005
30	Perigonimus yoldiareticae	Birula 1897
31	Perigonimus sp A	Ljubenkov 1976 §
32	Family Eudendriidae	
33	Eudendrium sp	
34	Suborder Filiformia	
35	Family Hydractiniidae	
36	Hydractinia sp	
37	Family Monobrachiidae	
38	Monobrachium parasitum	Mereschkovsky 1877
39	Order Leptomedusae	•
40	Family Campanulariidae	
41	Campanularia volubilis	(Linnaeus 1758)
42	Clytia universitatis	Torrey 1904
43	Obelia geniculata	(Linnaeus 1758)
44	Obelia sp A	MEC 1990 §
45	Orthopyxis everta	(S. F. Clark 1876)
46	Rhizocaulus verticillatus	
47		(Linnaeus 1758)
48	Family Hebellidae	(E 1000)
	Hebellopsis expansa	(Fraser 1938)
49	Family Lovenellidae	
50	Calycella syringa	(Linnaeus 1767)
51	Lovenella nodosa	Fraser 1938
52	Oplorhiza gracilis	(Stechow 1921)
53	Family Phialellidae	
54	Campanulina sp	
55	Family Plumulariidae	
56	Aglaophenia sp	
57	Cladocarpus sp A	MEC 1990 §
58	Diplocheilus allmani	Torrey 1902
59	Plumularia corrugata	Nutting 1900
	I isinalai la coll ugata	Trutting 1900

60	Plumularia integra	Fraser 1948
61	Plumularia plumularioides	(S. F. Clark 1876)
62		(B. 1 . Clark 1070)
	Family Sertulariidae	
63	Abietinaria sp	
64	Dynamena sp	
65	Sertularella pedrensis	Torrey 1904
66		
	Thuiaria cylindrica	(S. F. Clark 1876)
67	Class Anthozoa	
68	Subclass Alcyonaria	
69	Order Gorgonacea	
70	Suborder Holaxonia	
71	Family Gorgoniidae	
72	Heterogorgia tortuosa	Verrill 1868
73	Family Muriceidae	
		<b>7.1</b>
74	Thesea sp $oldsymbol{B}$	Ljubenkov 1986 §
75	Order Pennatulacea	
76	Suborder Sessiliflorae	
77	Family Renillidae	
	•	
78	Renilla kollikeri	Pfeffer 1886
79	Suborder Subselliflorae	
80	Family Virgulariidae	
81	• • •	Nutting 1000
	Acanthoptilum annulatum	Nutting 1909
82	Stylatula elongata	(Gabb 1863)
83	Stylatula sp A	Ljubenkov 1991 §
84	Virgularia bromleyi	Kölliker 1880
85	Virgularia sp A	
		Ljubenkov 1991 §
86	Family Pennatulidae	
87	Ptilosarcus gurneyi	(Gray 1860)
88	Subclass Zoantharia	
89	Order Ceriantharia	
90	Suborder Spirularia	
91	Family Cerianthidae	
92	Arachnanthus sp A	Ljubenkov 1993 §
93		McMurrich 1910
	Pachycerianthus fimbriatus	Michigan 1910
94	family uncertain	
95	Ceriantharia sp C	MEC 1986 §
96	Ceriantharia sp D	MEC 1986 §
97	Order Actiniaria	11120 1300 3
98	Suborder Nynantheae	
99	Family Edwardsiidae	
100	Edwardsia sipunculoides	(Stimpson 1853)
101		
	Edwardsia sp A	SCAMIT 1983 §
102	Edwardsia sp G	MEC 1992 §
103	Scolanthus sp A	SCAMIT 1983 §
104	Family Halcampoididae	•
105		Carlena 1000
	Pentactinia californica	Carlgren 1900
106	Family Haloclavidae	
107	Anemonactis sp	
108	Family Halcampidae	
109		O1 1001
	Cactosoma arenaria	Carlgren 1931
110	Halcampa decemtentaculata	Hand 1954
111	Halianthella sp A	SCAMIT 1989 §
112	Family Isanthidae	3
113		ECARTTAGG *
	Isanthidae sp A	SCAMIT 1989 §
114	Zaolutus actius	Hand 1955
115	Family Limnactiniidae	
116	Limnactiniidae sp A	SCAMIT 1989 §
		2CVIALL 1303 8
117	Family Sagartiidae	
118	Sagartia catalinensis	McPeak 1968
	_	

119	Family Metridiidae	
120	Metridium "senile"	
121	Family Diadumenidae	
122	Diadumene sp	
123	family uncertain	
124	Anemone #76	Ljubenkov 1984 §
125	Order Corallimorpharia	
126	Family Corallimorphidae	O1 1006
127 128	Corynactis californica PHYLUM PLATYHELMINTHES	Carlgren 1936
129	Class Turbellaria	
130	Order Polycladida	
131	Suborder Acotylea	
132	Superfamily Stylochoidea	
133	Family Calloplanidae	
134	Kaburakia excelsa	Bock 1925
135	Family Latocestidae	2001172.7
136	unidentified	
137	Family Plehniidae	
138	Plehnia caeca	Hyman 1953
139	Family Stylochidae	,
140	Stylochus exiguus	Hyman 1953
141	Stylochus franciscanus	Hyman 1953
142	Family Pseudostylochidae	•
143	Pseudostylochus burchami	(Heath & McGregor 1912)
144	Superfamily Leptoplanoidea	
145	Family Leptoplanidae	
146	Hoplopiana sp A	MEC 1989 §
147	Leptoplanidae sp A	MEC 1988 §
148	Parviplana californica	(Woodworth 1894)
149	Family Planoceridae	
150	Paraplanocera oligoglena	(Schmarda 1859)
151	Family Cryptocelidae	
152	Cryptocelis occidentalis	Hyman 1953
153	Family Notoplanidae	
154	Notoplana sp	
155	Family Stylochoplanidae	(TT15 0 37 G 4040)
156 157	Emprosthopharynx gracilis	(Heath & McGregor 1912)
158	Stylochoplana longipenis Family Pleioplanidae	Hyman 1953
159		(Trooth & McCassan 1010)
160	<i>Pleioplana inquieta</i> Suborder Cotylea	(Heath & McGregor 1912)
161	Superfamily Pseudocerotoidea	
162	Family Pseudoceridae	
163	Pseudoceros sp	
164	Family Euryleptidae	
165	Eurylepta sp	
166	Family Prostiostomidae	
167	Prosthiostomum latocelis	Hyman 1953
168	suborder uncertain	Hyman 1755
169	superfamily uncertain	
170	family uncertain	
171	Polycladida sp 27	Ljubenkov 1986 §
172	Polycladida sp 43	Ljubenkov 1989 §
173	Polycladida sp A	Phillips 1987 §
174	Polycladida sp E	Phillips 1988 §
175	Polycladida sp H	Phillips 1987 §
176	Polycladida sp O	Phillips 1990 §
177	Polycladida sp P	Phillips 1990 §
	•	•

178 179	PHYLUM NEMERTEA Class Anopla	
180	Order Archinemertea	
181	Family Cephalothricidae	
182	unidentified	
183	Order Palaeonemertea	
184	Family Carinomidae	
185	Carinoma mutabilis	Griffin 1898
186	Family Tubulanidae	
187	Carinomella lactea	Coe 1905
188	Tubulanus albocinctus	(Coe 1904)
189	Tubulanus cingulatus	(Coe 1904)
190	Tubulanus frenatus	(Coe 1904)
191	Tubulanus nothus	(Berger 1892)
192	Tubulanus polymorphus	Renier 1804
193	family uncertain	
194	Palaeonemertea sp A	Phillips 1988 §
195	Palaeonemertea sp B	Paquette 1989 §
196	Order Heteronemertea	•
197	Family Lineidae	
198	Cerebratulus albifrons	Coe 1901
199	Cerebratulus californiensis	Coe 1905
200	Cerebratulus lineolatus	Coe 1905
201	Cerebratulus marginatus	Renier 1804
202	Cerebratulus montgomeryi	Coe 1901
203	Lineidae sp A	Paquette 1989 §
204	Lineus bilineatus	(Renier 1804)
205	Lineus flavescens	Coe 1904
206	Lineus ruber	(O. F. Müller 1771)
207	Lineus rubescens	Coe 1904
208	Lineus sp A	Phillips 1989 §
209	Micrura alaskensis	Coe 1901
210	Micrura pardalis	Coe 1905
211	Micrura wilsoni	(Coe 1904)
212	Family Valenciniidae	· · · · ·
213	Baseodiscus sp	
214	Zygeupolia rubens	(Coe 1895)
215	order uncertain	· · · · ·
216	family uncertain	
217	Anopla genus A sp A	Phillips 1987 §
218	Class Enopla	•
219	Order Hoplonemertea	
220	Suborder Monostyliferoidea	
221	Family Emplectonematidae	
222	Dichonemertes hartmanae	Coe 1938
223	Emplectonema sp	
224	Paranemertes californica	Coe 1904
225	Family Prosorhochmidae	
226	Oerstedia dorsalis	(Abildgaard 1806)
227	Prosorhochmus albidus	(Coe 1905)
228	Family Amphiporidae	· · ·
229	Amphiporidae sp B	MEC 1989 §
230	Amphiporus bimaculatus	Coe 1901
231	Amphiporus californicus	Coe 1905
232	Amphiporus cruentatus	(Hubrecht 1879)
233	Amphiporus imparispinosus	Griffin 1898
234	Amphiporus rubellus	Coe 1905
235	Amphiporus sp A	Phillips 1988 §
236	Amphiporus sp B	Phillips 1989 §
		1

237	Zygonemertes virescens	(Verrill 1879)
238	Family Tetrastemmatidae	( )
239	Amphinemertes caeca	(Coc 1901)
240	Tetrastemma candidum	(O. F. Müller 1774)
241	Tetrastemma nigrifrons	Coe 1904
242	Tetrastemma reticulatum	Coe 1904
243	family uncertain	
244	Monostylifera sp A	Ljubenkov 1989 §
245	suborder uncertain	
246	family uncertain	
247	Hoplonemertea sp A	Paquette 1988 §
248	Hoplonemertea sp B	MEC 1988 §
249	Nemertea sp A	Paquette 1989 §
250	PHYLUM ENTOPROCTA	
251	Order Solitaria	
252	Family Loxosomatidae	
253	unidentified	
254	Order Coloniales	
255	Suborder Stolonata	
256	Family Barentsiidae	
257	Barentsia benedeni	(Foettinger 1887)
258	Barentsia gracilis	(M. Sars 1835)
259	PHYLUM MOLLUSCA	
260	Class Aplacophora	
261	Subclass Chaetodermomorpha	
262	Superorder Limifossorimorpha	
263	Order Limifossorida	
264	Family Limifossoridae	
265	Limifossor fratula	Heath 1904
266	Superorder Chaetodermatimorpha	
267	Order Chaetodermatida	
268	Family Chaetodermatidae	
269	Chaetoderma sp	Ω.
270	Falcidens sp B	SCAMIT 1985 §
271	Class Polyplacophora	_
272	Order Neoloricata	
273	Suborder Lepidochitonina	
274	Family Lepidopleuridae	
275	Leptochiton rugatus	(Pilsbry 1892)
276	Family Ischnochitonidae	(=, =,
277	Ischnochiton sp	
278	Lepidozona retiporosa	(Carpenter 1864)
279	Lepidozona sinudentata	(Carpenter in Pilsbry 1892)
280	Class Gastropoda	(
281	Order Archaeogastropoda	
282	Suborder Pleurotomariinae	
283	Superfamily Fissurelloidea	
284	Family Fissurellidae	
285	Puncturella sp	
286	Suborder Patellina	
287	Superfamily Patelloidea	
288	Family Acmaeidae	
289	Acmaea mitra	Rathke 1833
290	Family Lottiidae	Ratifice 1000
291	Lottia strigatella	(Carpenter 1864)
292	Family Lepetidae	(Carpenter 1004)
293	Iothia lindbergi	McLean 1985
	Suborder Trochina	Michean 1903
294		
295	Superfamily Trochoidea	

296	Family Trochidae	
297	Calliostoma annulatum	(Lightfoot 1786)
298	Calliostoma tricolor	Gabb 1865
299	Calliostoma turbinum	Dall 1895
300	Halistylus pupoides	(Carpenter 1864)
301	Lirularia acuticostata	(Carpenter 1864)
302	Lirularia parcipicta	(Carpenter 1864)
303	Norrisia norrisi	(G. B. Sowerby II 1838)
304	Solariella peramabilis	Carpenter 1864
305	Family Phasianellidae	Carpenter 1804
306		(Co14 1955)
307	Tricolia compta	(Gould 1855)
308	Tricolia pulloides Tricolia rubrilineata	(Carpenter 1865)
309		(Strong 1928)
	Tricolia substriata	(Carpenter 1864)
310	Order Mesogastropoda	
311	Suborder Littorinina	
312	Superfamily Littorinoidea	
313	Family Lacunidae	
314	Lacuna unifasciata	Carpenter in Gould & Carpenter 1857
315	Superfamily Rissoidea	
316	Family Rissoidae	
317	Alvania acutelirata	(Carpenter 1864)
318	Alvania rosana	Bartsch 1911
319	Family Barleeidae	
320	Barleeia californica	Bartsch 1920
321	Lirobarleeia kelseyi	(Dall & Bartsch 1902)
322	Family Truncatellidae	,
323	Cecina sp	
324	Family Caecidae	
325	Caccum californicum	Dall in Orcutt 1885
326	Caecum crebricinctum	Carpenter 1864
327	Caecum dalli	Bartsch 1920
328	Fartulum occidentale	
329	Family Vitrinellidae	(Bartsch 1920)
330	Circulus sp	
331		(Compostor 1964)
	Teinostoma supravallatum	(Carpenter 1864)
332	Vitrinella berryi	Bartsch 1907
333	Vitrinella oldroydi	Bartsch 1907
334	Superfamily Turritelloidea	
335	Family Turritellidae	
336	Turritella cooperi	Carpenter 1864
337	Family Vermetidae	
338	Petaloconchus sp	
339	Superfamily Cerithioidea	
340	Family Cerithiidae	
341	Bittium larum	Bartsch 1911
342	Bittium quadrifilatum	Carpenter 1864
343	Bittium rugatum	(Carpenter 1864)
344	Finella sp	
345	Lirobittium subplanatum	(Bartsch 1911)
346	Family Litiopidae	(333333)
347	Alaba sp	
348	Superfamily Cerithiopsoidea	
349	Family Cerithiopsidae	
350		
	Cerithiopsis sp	
351	Suborder Pteroglossa	
352	Superfamily Epitonioidea	
353	Family Epitoniidae	
354	Asperiscala bellastriata	(Carpenter 1864)

355	Asperiscala lowei	(Dall 1906)
356	Nitidiscala hindsii	(Carpenter 1865)
357	Nitidiscala indianorum	(Carpenter 1864)
358	Nitidiscala sawinae	(Dall 1903)
359	Nitidiscala tincta	(Carpenter 1865)
360	Opalia funiculata	(Carpenter 1857)
361	Opalia montereyensis	(Dall 1907)
362	Opalia spongiosa	(Carpenter 1866)
363	Opalia borealis	Keep 1881
364	Suborder Cynoglossa	
365	Superfamily Eulimoidea	
366	Family Eulimidae	
367	Eulima almo	(Bartsch 1917)
368	Eulima californicus	(Bartsch 1917)
369	Melanella bakeri	Bartsch 1917
370	Melanella catalinensis	Bartsch 1917
371	Melanella compacta	Carpenter 1864
372	Melanella grippi	Bartsch 1917
373	Melanella micans	(Carpenter 1864)
374	Melanella oldroydi	Bartsch 1917
375	Melanella rutila	
376	Superfamily Hipponicoidea	(Carpenter 1864)
377	Family Hipponicidae	
378	- · · · · · · · · · · · · · · · · · · ·	(Tinnague 1767)
379	Hipponix antiquatus Family Fossaridae	(Linnaeus 1767)
380		Dall 1002
	Macromphalina californica	Dall 1903
381	Superfamily Calyptraeoidea	
382	Family Calyptraeidae	(01965)
383	Calyptraea contorta	(Carpenter 1865)
384	Calyptraea fastigiata	Gould 1856
385	Crepidula aculeata	(Gmelin 1791)
386	Crepidula adunca	G. B. Sowerby I 1825
387	Crepidula dorsata	(Broderip 1834)
388	Crepidula naticarum	Williamson 1905
389	Crepidula norrisiarum	Williamson 1905
390	Crepidula nummaria	Gould 1846
391	Crepidula onyx	G. B. Sowerby I 1824
392	Crepidula perforans	(Valenciennes 1846)
393	Crepipatella charybdis	(Berry 1940)
394	Crucibulum spinosum	(G. B. Sowerby I 1824)
395	Superfamily Naticoidea	
396	Family Naticidae	3
397	Calinaticina oldroydii	(Dall 1897)
398	Neverita reclusiana	(Deshayes 1839)
399	Polinices draconis	(Dall 1903)
400	Polinices lewisii	(Gould 1847)
401	Sinum scopulosum	(Conrad 1849)
402	Superfamily Lamellaroidea	
403	Family Lamellariidae	
404	Lamellaria diegoensis	Dall in Orcutt 1885
405	Superfamily Cypraeoidea	
406	Family Triviidae	
407	Trivia californiana	(J. E. Gray 1827)
408	Family Ovulidae	•
409	Delonovolva aequalis vidleri	(G. B. Sowerby II 1881)
410	Spiculata barbarensis	(Dall 1892)
411	Spiculata loebbeckeana	(Weinkauff 1881)
412	Superfamily Cymatioidea	• 41
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413	Family Bursidae	
414	Crossata californica	(Hinds 1843)
415	Order Neogastropoda	(11111111111111111111111111111111111111
416	Superfamily Muricoidea	
417	Family Muricidae	
418	Austrotrophon cerrosensis catalinensis	I. S. Oldrovd 1927
419	Ocenebra beta	(Dall 1919)
420	Ocenebra foveolata	(Hinds 1844)
421	Pteropurpura festiva	(Hinds 1844)
422	Family Coralliophilidae	
423	Babelomurex oldroydi	(I. S. Oldroyd 1929)
424	Family Columbellidae	
425	Aesophus eurytoideus	(Carpenter 1864)
426	Alia carinata	(Hinds 1844)
427	Amphissa bicolor	Dall 1892
428	Amphissa undata	(Carpenter 1864)
429	Amphissa versicolor	Dall 1871
430	Mitrella aurantiaca	(Dall 1871)
431	Mitrella tuberosa	(Carpenter 1864)
432	Nassarina penicillata	(Carpenter 1864)
433	Superfamily Buccinoidea	•
434	Family Buccinidae	
435	Kelletia kelletti	(Forbes 1850)
436	Family Nassariidae	,
437	Nassarius delosi	Woodring in Woodring et al 1946
438	Nassarius fossatus	(Gould 1849)
439	Nassarius insculptus	(Carpenter 1864)
440	Nassarius mendicus	(Gould 1849)
441	Nassarius perpinguis	(Hinds 1844)
442	Family Fasciolariidae	•
443	Fusinus kobelti	(Dail 1877)
444	Fusinus luteopictus	(Dall 1877)
445	Superfamily Volutoidea	
446	Family Olividae	
447	Olivella baetica	Carpenter 1864
448	Olivella biplicata	(G. B. Sowerby I 1825)
449	Family Turbinellidae	
450	Metzgeria sp	
451	Family Marginellidae	
452	Granulina margaritula	(Carpenter 1857)
453	Superfamily Mitroidea	
454	Family Mitridae	
455	Mitra idae	Melvill 1893
456	Superfamily Cancellaroidea	
457	Family Cancellariidae	
458	Admete rhyssa	(Dall 1919)
459	Cancellaria cooperi	Gabb 1865
460	Cancellaria crawfordiana	(Dall 1891)
461	Superfamily Conoidea	
462	Family Conidae	
463	Conus californicus	Hinds 1844
464	Family Terebridae	
465	Terebra hemphilli	Vanatta 1924
466	Terebra pedroana	Dall 1908
467	Family Turridae	
468	Antiplanes sp	
469	Crassispira semiinflata	(Grant & Gale 1931)
470	Elaeocyma empyrosia	(Dall 1899)
471	Kurtzia arteaga	(Dall & Bartsch 1910)
	· · · · · · · · · · · · · · · · · · ·	•

472	Kurtziella beta	(Dall 1919)
473	Kurtziella plumbea	(Hinds 1843)
474	Kylix halocydne	(Dall 1919)
475	Mangelia hexagona	Gabb 1865
476	Megasurcula carpenteriana	(Gabb 1865)
477	Megasurcula stearnsiana	(Raymond 1904)
478	Oenopota regulus	(Dall 1919)
479	Ophiodermella cancellata	(Carpenter 1864)
480	Ophiodermella halcyonis	(Dall 1908)
481	Ophiodermella inermis	(Hinds 1843)
482		(Carpenter 1864)
483	Pseudomelatoma penicillata	(Carpenter 1804)
	Order Pyramidellida	
484	Superfamily Pyramidelloidea	
485	Family Pyramidellidae	(0 - 12 1050)
486	Iselica ovoidea	(Gould 1853)
487	Odostomia astricta	Dall & Bartsch 1907
488	Odostomia canfieldi	Dall 1908
489	Odostomia clementina	Dail & Bartsch 1909
490	Odostomia columbiana	Dall & Bartsch 1907
491	Odostomia eucosmia	Dall & Bartsch 1909
492	Odostomia eugena	Dall & Bartsch 1909
493	Odostomia gravida	Gould 1852
494	Odostomia laxa	Dall & Bartsch 1909
495	Odostomia ritteri	Dall & Bartsch 1909
496	Odostomia tenuisculpta	Carpenter 1864
497	Odostomia virginalis	Dall & Bartsch 1909
498	Odostomia sp D	MBC 1980 §
499	Turbonilla almo	Dall & Bartsch 1909
500	Turbonilla castanea	Keep 1887
501	Turbonilla chocolata	(Carpenter 1864)
502	Turbonilla diegensis	Dall & Bartsch 1909
503	Turbonilla kelseyi	Dall & Bartsch 1909
504	Turbonilla nuttingi	Dall & Bartsch 1909
505	Turbonilla raymondi	Dall & Bartsch 1909
506	Turbonilla regina	Dail & Bartsch 1909
507	Turbonilla santarosana	Dall & Bartsch 1909
508		
	Turbonilla tenuicula	(Gould 1853)
509	Turbonilla sp A	SCAMIT 1988 §
510	Family Cyclostremellidae	D 1 1007
511	Cyclostremella californica	Bartsch 1907
512	Cyclostremella coronadoensis	(Arnold 1903)
513	Order Cephalaspidea	
514	Superfamily Acteonoidea	
515	Family Acteonidae	
516	Acteon traskii	Stearns 1898
517	Microglyphis brevicula	(Dall 1902)
518	Rictaxis painei	Dall 1903
519	Rictaxis punctocaelatus	(Carpenter 1864)
520	Superfamily Philinoidea	•
521	Family Scaphandridae	
522	Acteocina culcitella	(Gould 1853)
523	Acteocina harpa	(Dall 1871)
524	Acteocina inculta	(Gould 1855)
525	Meloscaphander sp A	SCAMIT 1993 §
526	Family Cylichnidae	551111111111111111111111111111111111111
527	Cylichna diegensis	(Dall 1919)
528	Family Aglajidae	(17411 1717)
529	Aglaja ocelligera	(Bergh 1894)
530		Cadien 1989 §
550	Aglaja sp A	Caulen 1909 8

531	Melanochlamys diomedea	(Bergh 1894)
532	Family Philinidae	
533	Philine alba	Mattox 1958
534	Philine bakeri	Dall 1919
535	Philine californica	Willett 1944
536	Philine sp A	SCAMIT 1988 §
537	Family Gastropteridae	
538	Gastropteron pacificum	Bergh 1894
539	Superfamily Diaphanoidea	
540	Family Diaphanidae	
541	Diaphana californica	Dall 1919
542	Superfamily Bulloidea	
543	Family Bullidae	
544	Bulla gouldiana	Pilsbry 1895
545	Family Atyidae	•
546	Haminaea vesicula	Gould 1855
547	Haminaea virescens	(G. B. Sowerby I 1833)
548	Family Retusidae	(
549	Sulcoretusa xystrum	(Dall 1919)
550	Volvulella californica	Dall 1919
551	Volvulella catharia	Dall 1919
552	Volvulella cylindrica	(Carpenter 1864)
553	Volvulella panamica	Dall 1919
554	superfamily uncertain	Dui: 1919
555	family uncertain	
556	Cephalaspidea sp A	SCAMIT 1993 §
557	Order Sacoglossa	SCHWIII 1993 3
558	Family Hermaeidae	
559	Alderia modesta	(Lóven 1844)
560	Order Notaspidea	(LOVCII 1844)
561	Superfamily Pleurobranchoidea	
562		
	Family Pleurobranchaeidae Pleurobranchaea californica	MacFarland 1966
563	Order Nudibranchia	Macranand 1900
564		
565	Suborder Doridoida	
566	Superfamily Pseudodoridoidea	
567	Family Corambidae	Miller C Miles Liber 1001
568	Corambe thompsoni	Millen & Nybakken 1991
569	Family Goniodorididae	T 1 T 1001 1001
570	Ancula lentiginosa	Farmer in Farmer & Sloan 1964
571	Ancula pacifica	MacFarland 1905
572	Okenia sp A	Cadien 1982 §
573	Family Onchidorididae	
574	Acanthodoris brunnea	MacFarland 1905
575	Acanthodoris rhodoceras	Cockerell in Cockerell & Eliot 1905
576	Onchidoris sp.	
577	Family Notodorididae	
578	Aegires albopunctatus	MacFarland 1905
579	Family Polyceridae	
580	Polycera tricolor	Robilliard 1971
581	Suborder Arminoidea	
582	Superfamily Dendronotoidea	
583	Family Tritoniidae	
584	Tochuina tetraquetra	(Pallas 1788)
585	Tritonia diomedea	Bergh 1894
586	Tritonia festiva	(Stearns 1873)
587	Family Dendronotidae	,
588	Dendronotus frondosus	(Ascanius 1774)
589	Dendronotus iris	J. G. Cooper 1863
	2 91191 0110, 20 11 10	

590 591	Dendronotus subramosus Family Dotoidae	MacFarland 1966
592	Doto amyra	Er. Marcus 1961
593	Doto columbiana	
		O'Donoghue 1921
594	Doto kya	Er. Marcus 1961
595	Family Arminidae	
596	Armina californica	(J. G. Cooper 1863)
597	Family Dironidae	
598	Dirona picta	MacFarland in Cockerell & Eliot 1905
599	Suborder Aeolidoida	
600	Superfamily Tergipedoidea	
601	Family Flabellinidae	
602	Flabellina pricei	(MacFarland 1966)
603	Flabellina trilineata	(O'Donoghue 1921)
604	Family Cumanotidae	,
605	Cumanotus fernaldi	Thompson & Brown 1984
606	Family Tergipedidae	Indiapoli of Brown 1701
607	Cuthona divae	(Er. Marcus 1961)
608	Superfamily Aeolidioidea	(Li. Maicus 1901)
609	Family Facelinidae	
610	Hermissenda crassicornis	(Espherholter 1921)
		(Eschscholtz 1831)
611	Family Aeolidiidae	ZT 1
612	Aeolidia papillosa	(Linnaeus 1761)
613	Aeolidiella sp	
614	Cerberilla mosslandica	McDonald & Nybakken 1975
615	Class Bivalvia	
616	Subclass Protobranchia	
617	Order Solemyida	
618	Superfamily Solemyoidea	
619	Family Solemyidae	
620	Solemya reidi	Bernard 1980
621	Superfamily Nucinelloidea	
622	Family Nucinellidae	
623	Huxleyia munita	(Dall 1898)
624	Order Nuculoida	,
625	Superfamily Nuculoidea	
626	Family Nuculidae	
627	Acila castrensis	(Hinds 1843)
628	Ennucula tenuis	(Montagu 1808)
629	Superfamily Nuculanoidea	(Wolliagu 1000)
630	Family Nuculanidae	(D-II 100C)
631	Nuculana conceptionis	(Dall 1896)
632	Nuculana elenensis	(G. B. Sowerby I in Broderip & Sowerby 1833)
633	Nuculana hamata	(Carpenter 1864)
634	Nuculana penderi	(Dall & Bartsch 1910)
635	Nuculana taphria	(Dall 1896)
636	Family Sareptidae	
637	Yoldia seminuda	Dall 1871
638	Family Tindariidae	
639	Tindaria sp	
640	Subclass Pteriomorphia '	
641	Order Mytiloida	
642	Superfamily Mytiloidea	
643	Family Mytilidae	
644		
645	Adula sp	(Dall 1016)
	Amygdalum pallidulum	(Dall 1916)
646	Crenella decussata	(Montagu 1808)
647	Gregariella chenui	(Récluz 1842)
648	Lithophaga plumula	Hanley 1844

649	Modiolus capax	(Conrad 1837)
650	Modiolus neglectus	Soot-Ryen 1955
651	Modiolus rectus	(Conrad 1837)
652	Musculista senhousei	(Benson in Cantor 1842)
653	Musculus sp	
654	Mytilus californianus	Conrad 1837
655	Mytilus galloprovincialis	Lamarck 1819
656	Solamen columbiana	(Dall 1897)
657	Order Limoida	
658	Superfamily Limoidea	
659	Family Limidae	
660	Limaria hemphilli	(Hertlein & Strong 1946)
661	Limatula subauriculata	(Montagu 1808)
662	Order Ostreoida	
663	Suborder Pectinina	
664	Superfamily Pectinoidea	
665	Family Pectinidae	
666	Argopecten ventricosus	(G. B. Sowerby II 1842)
667	Chlamys hastata	(G. B. Sowerby II 1843)
668	Crassedoma gigantea	(J. E. Gray 1825)
669	Delectopecten vancouverensis	(Whiteaves 1893)
670	Euvola diegensis	(Dall 1898)
671	Leptopecten latiauratus	(Conrad 1837)
672	Family Propeamussidae	
673	Cyclopecten benthalis	Grau 1959
674	Cyclopecten catalinensis	(Willett 1931)
675	Superfamily Anomioidea	
676	Family Anomiidae	
677	Pododesmus cepio	(J. E. Gray 1850)
678	Subclass Heterodonta	
679	Order Veneroida	
680	Superfamily Lucinoidea	
681	Family Lucinidae	
682	Epilucina californica	(Conrad 1837)
683	Lucinisca nuttalli	(Conrad 1837)
684	Lucinoma annulatum	(Reeve 1850)
685	Parvilucina tenuisculpta	(Carpenter 1864)
686	Family Ungulinidae	(D. 4050)
687	Diplodonta sericata	(Reeve 1850)
688	Family Thyasiridae	B 1047
689	Adontorhina cyclia	Berry 1947
690	Adontorhina sphaericosa	Scott 1986
691	Axinopsida serricata	(Carpenter 1864)
692	Thyasira flexuosa	(Montagu 1803)
693	Superfamily Carditoidea	
694	Family Carditidae	(0) 1001)
695	Cyclocardia barbarensis	(Stearns 1891)
696	Cyclocardia ventricosa	(Gould 1850)
697	Superfamily Chamoidea	
698	Family Chamidae	Dornard 1076
699 700	Chama arcana Beaudochama evouvra	Bernard 1976
700	Pseudochama exogyra	(Conrad 1837)
	Superfamily Galeommatoidea	
702	Family Galeommatidae	Cadian 1993 S
703	Galeommatidae genus A sp A	Cadien 1982 §
704	Family Kelliidae	(Montogu 1902)
705	Kellia suborbicularis	(Montagu 1803)
706	Rhamphidonta retifera	(Dall 1899)
707	Rhamphidonta sp A	Cadien 1993 §

700	Family Lagaridae	
708	Family Lasaeidae	(Gmalin 1701)
709	Lasaea adansoni	(Gmelin 1791)
710	Family Montacutidae	(Dall 1012)
711	Mysella grippi	(Dali 1912)
712	Mysella pedroana	Dall 1899
713	Mysella tumida	(Carpenter 1864)
714	Mysella sp A	SCAMIT 1988 §
715	Mysella sp B	SCAMIT 1988 §
716	Mysella sp C	SCAMIT 1988 §
717	Mysella sp D	SCAMIT 1988 §
718	Mysella sp $E$	SCAMIT 1988 §
719	Neaeromya compressa	(Dall 1899)
720	Nearomya stearnsii	(Dall 1899)
721	Orobitella bakeri	(Dall 1916)
722	Pseudopithina rugifera	(Carpenter 1864)
723	Tomburchus redondoensis	(T. Burch 1941)
724	Superfamily Cardioidea	
725	Family Cardiidae	
726	Americardia biangulata	(Broderip & G. B. Sowerby I 1829)
727	Clinocardium nuttallii	(Conrad 1837)
728	Laevicardium substriatum	(Conrad 1837)
729	Nemocardium centifilosum	(Carpenter 1864)
730	Trachycardium quadragenarium	(Conrad 1837)
731	Superfamily Veneroidea	,
732	Family Veneridae	
733	Chione californiensis	(Broderip 1835)
734	Chione undatella	(G. B. Sowerby I 1835)
735	Compsomyax subdiaphana	(Carpenter 1864)
736	Globivenus fordii	(Yates 1890)
737	Irusella lamellifera	(Conrad 1837)
738	Pitar newcombianus	(Gabb 1865)
739	Protothaca laciniata	(Carpenter 1864)
740	Protothaca staminea	(Conrad 1837)
741	Psephidia lordi	(Baird 1863)
742	Psephidia ovalis	Dall 1902
743	Saxidomus nuttalli	Conrad 1837
744	Tivela stultorum	(Mawe 1823)
745	Transenella tantilla	(Gould 1853)
746	Venerupis philippinarum	(A. Adams & Reeve 1850)
747	Family Bernardinidae	(At. Adding at Recove 1050)
748	Halodakra salmonea	(Carpenter 1864)
749	Family Cooperellidae	(Carpenter 1004)
750	Cooperella subdiaphana	(Carpenter 1864)
751	Family Petricolidae	(Carpenter 1004)
752	Petricola carditoides	(Conrad 1837)
752 753	Petricola tellimyalis	(Carpenter 1864)
	Superfamily Tellinoidea	(Carpenter 1804)
754 755	• •	
755 756	Family Tellinidae	(Dasheurs 1955)
756 757	Leporimetis obesa	(Deshayes 1855)
757 750	Macoma carlottensis	Whiteaves 1880
758 750	Macoma indentata	Carpenter 1864
759	Macoma nasuta	(Conrad 1837)
760	Macoma yoldiformis	Carpenter 1864
761	Tellina bodegensis	Hinds 1845
762	Tellina carpenteri	Dall 1900
763	Tellina idae	Dall 1891
764	Tellina modesta	(Carpenter 1864)
765	Tellina nuculoides	(Reeve 1854)
766	Tellina sp A	SCAMIT 1993 §

767	Family Psammobildae	
767 768	Gari californica	(Conrad 1849)
769	Gari fucata	(Hinds 1845)
770	Nuttallia nuttallii	(Conrad 1837)
771	Family Semelidae	(5542 155.)
772	Cumingia californica	Conrad 1837
773	Semele decisa	(Conrad 1837)
774	Semele venusta	(Reeve 1853)
775	Semele rubropicta	Dall 1871
776	Theora Iubrica	Gould 1861
777	Family Solecurtidae	
778	Tagelus affinis	(G. B. Sowerby II 1874)
779	Tagelus subteres	(Conrad 1837)
780	Superfamily Solenoidea	(
781	Family Solenidae	
782	Solen rosaceus	Carpenter 1864
783	Solen sicarius	Gould 1850
784	Family Pharidae	
785	Ensis myrae	Berry 1953
786	Siliqua lucida	(Conrad 1837)
787	Superfamily Mactroidea	(00111111111111111111111111111111111111
788	Family Mactridae	
789	Mactra californica	Conrad 1837
790	Mactra dolabriformis	(Conrad 1867)
791	Spisula catilliformis	Conrad 1867
792	Spisula planulata	(Conrad 1837)
793	Tresus nuttallii	(Conrad 1837)
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795	Suborder Myina	
796	Superfamily Myoidea	
797	Family Myidae	
798	Cryptomya californica	(Conrad 1837)
799	Mya arcnaria	Linnaeus 1758
800	Platyodon cancellatus	(Conrad 1837)
801	Sphenia luticola	Valenciennes 1846
802	Family Corbulidae	Valenciennes 1040
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804	Corbula porcella	Dall 1916
805	Superfamily Hiatelloidea	Dan 1710
806	Family Hiatellidae	
807	Hiatella arctica	(Linnaeus 1767)
808	Panopea abrupta	(Conrad 1849)
809	Saxicavella nybakkeni	Scott 1994
810	Saxicavella pacifica	Dall 1916
811	Suborder Pholadina	Dail 1910
812	Superfamily Pholadoidea	
813	Family Pholadidae	
814	Xylophaga washingtona	Bartsch 1921
815	Subclass Anomalodesmata	Baltsell 1921
816	Order Pholadomyoida	
817		
818	Superfamily Pandoroidea Family Pandoridae	
	•	Commd 1955
819 820	Pandora bilirata Pandora filosa	Corrector 1864)
		(Carpenter 1864)
821	Pandora punctata	Conrad 1837
822	Family Lyonsiidae	(C. D. Carrierto, 7.1004)
823	Entodesma pictum	(G. B. Sowerby I 1834)
824	Lyonsia californica	Conrad 1837
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E. Berkeley 1923	Lepidasthenia longicirrata	1130
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(Lucas 1931)	Scleroconcha trituberculata	1519
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(Juday 1907) Poulsen 1962	Euphilomedes ronginera  Euphilomedes producta	1516
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Menzies & J. L. Barnard 1959	Maliophasma geminatum	0691
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	Family Tanaidae	9291
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	Pseudotanais sp	4791
reer rules as Sons	Family Pseudotanaidae	£73†
Sieg & Dojiri 1991 Sieg & Dojiri 1991	Tanaopsis cadieni	1672
toot inited & pail	Scoloura phillipsi	1791
SCAMIT 1987 §	Family Anarthruidae	0781
SCAMIT 1987 §	A qe shashar	6991
\$ 5891 sqillida	A qs sinnsioiqunv2 A qs allanneT	8991
SCAMIT 1985 \$	L qs sinas po L	7991
SCAMIT 1987 §	O qs anufara.	9991
SCAMIT 1987 §	A qs andqarA	1991 1992
SCAMIT 1987 §	A qs siniqsiA	1991
V 2007 217 ( V 2 3	Family Leptognathiidae	1662
Paquette 1985 \$	Paratanaidae A	1991
(Krøyer 1842)	Гергосћејіа dubia	0991
3	Family Paratanaidae	6991
	Superfamily Paratanaoidea	1658
	Suborder Tanaidomorpha	1657
	Order Tanaidacea	1656
Simmer 1936	Oxyurostylis pacifica	1655
WBC 1983 §	Leptostylis sp E	1654
SCAMIT 1983 §	Leptostylis sp A	1653
(G. O. Sars 1869)	Leptostylis villosa	1652
Zimmer 1936	Diastylopsis tenuis	1651
Phillips 1981 §	$oldsymbol{Q}$ ds silyissi $oldsymbol{Q}$	1650

		18,
Shoemaker 1926	Balea transversa	1921
	Family Bateidae	9971
(J. L. Barnard 1979)	Tethygeneia opata	1765
Velarde 1987 §	A qs siqoriohachA	1764
(Holmes 1908)	Rhachotropis distincta	1763
Gurjanova 1938	Pontogeneia rostrata	1762
(Krøyer 1838)	Pontogeneii siermis	1921
(Boeck 1871)	ensmignol estadare	1760
Boeck 1861	รอตุ่งถูกด์ รมาiรมสิ	1759
(Haswell 1879)	səbioluəonom səbiorizuA	1758
	Family Eusiridae	<b>1757</b>
	Superfamily Pontogeneioidea	1756
	Suborder Gammaridea	1755
9	Order Amphipoda	1754
§ 2991 nosliW	A qs muinogoruəl¶	1753
Menzies 1951	Pleurogonium californiense	1752
(Menzies & J. L. Barnard 1959)	MunnogonnuM	1751
(Schultz 1964)	muiarre muinogonnuM	1750
44.5	Famunnidae	6771
Menzies & J. L. Barnard 1959	Ilyarachna acarina	8471
§ 2991 nosliW	A qz səsənələd	7471
(	Family Munnopsidae	9471
(Mensies 1952)	siiupidu snnumorU	1745
Gurjanova 1933	Munna stephenseni	ヤヤムト
	Family Munnidae	1743
Menzies 1951	Joeropsis dubia	2471
Schultz 1966	Joeropsis concava	1741
(	Family Joeropsididae	0 <del>7</del> 71
(Hatch 1947)	Janiralata solasteri	1739
(Malker 1898)	Janiralata occidentalis	8671
	Caecianiropsis sp	1737
	Family Janiridae	1736
	Superfamily Janiroidea	1735
teor noedman	Suborder Asellota	1734
7281 nosqmi12	silsaimobas surubollyda	1733
	Family Bopyridae	1732
	Supertamily Bopyroidea	1571
Iverson 1972	Suborder Epicaridea	1730
Menzies & J. L. Barnard 1959	ราการเลยา รางอาการ	1729
Schultz 1966	รวาธาตา ควางว่าเกร	1728
7281 nosqmit2	Synidotea calcarea	1727
Maloney 1933	Idotea montereyensis Idotea resecata	1726
MEC 1984 §	Edotia sp B	1725
MEC 1981 \$	A qs sitobH	1724
Menzies & J. L. Barnard 1959	Edotia sublittoralis Edotia sp. A	1722 1723
Oper through I I designed	Family Idoteidae	1721
(Boone 1918)	Neastacilla californica	1720
Menzies & J. L. Barnard 1959	Idarcturus allelomorphus Meastaeilla californica	6171
Ogot barand I I % reigney(	Family Arcturidae	8171
	Subordet Valvifera	
(Holmes 1904)	Paracerceis sculpta	9171 7171
(Richardson 1899)	Paracerceis cordata Popoegeis sculpta	9121
(Richardson 1899)	Ехоѕрһаегота гћотогит	5121 7121
(Richardson 1899)	Discerceis granulosa	8171 171
(000)\$p40;Q/	Family Sphaeromatidae	2171
	ta simonia spatita spa	1171
	Family Limnorlidae	0121
Schiødte & Meinert 1881	Nerocila acuminata	6041
	-ti-mino olinomalf	1 200

Superfamily Oedicerotoidea

J. L. Barnard 1960	Harpiniopsis galera	1856
J. L. Barnard 1960	Harpiniopsis fulgens	1852
J. L. Barnard 1960	Harpiniopsis epistomata	1824
(1. L. Barnard 1960)	Foxiphalus sulinis	1823
(Alderman 1936)	Foxiphalus obtusidens	1822
(J. L. Barnard 1960)	Foxiphalus major	1821
J. L. Barnard & C. M. Barnard 1982	Foxiphalus golfensis	1850
(J. L. Barnard 1960)	Foxiphalus cognatus	6181
(80et səmioH)	Eyakia robusta	8181
(Holmes 1903)	Eobrolgus spinosus	181
(J. L. Barnard 1960)	Cephalophoxoides homilis	1816
	Family Phoxocephalidae	1815
Gurjanova 1953	Urothoe varvarini	1814
	Family Urothoidae	1813
(7061 9 1911 197 197 19)	Superfamily Phoxocephaloidea	1812
(J. L. Barnard 1962)	Pariphinotus escabrosus	1181
	Family Phliantidae	1810
	ds ale H	6081
	Supertamily Talitroidea Family Hyalidae	1808
J. L. Barnard 1962	Stenula modosa	7081
J. L. Barnard 1969	Stenuta modosa	1806
J. L. Barnard 1962	Stenothoides bicoma	1804 1805
J. L. Barnard 1962	Stenothoe frecanda	1803
J. L. Barnard 1962	Stenothoe estacola	1802
J. L. Barnard 1962	Parametopella ninis	1801
J. L. Barnard 1962	Metopa dawsoni	1800
	Family Stenothoidae	6641
(Abildgaard 1789)	Leucothoe spinicarpa	8671
	Family Leucothoidae	4641
J. L. Barnard 1962	Gitana calitemplado	9641
J. L. Barnard 1962	surubsəiq suhəolihqmA	1795
	"sunsiiloqsən" sudəolidqmA	<b>⊅6</b> ∠↓
Stout 1912	Amphilochus litoralis	1793
0061 116115 25 5 1171115 15	Family Amphilochidae	2671
J. L. Barnard & Given 1960	Stenopleustes monocuspis	1671
J. L. Barnard & Given 1960 (J. L. Barnard & Given 1960)	Pleusymies subglaber	0671
Alderman 1936	Picustes depresses	6871
J. L. Barnard 1969	Pieusirus secorrus Pieusies depressus	8871
(Dana 1853)	Parapleustes pugettensis	7871
(Holmes 1908)	Parapleustes oculatus	3871 1786
(Gurjanova 1938)	Parapleustes behningi	4871 3871
SCAMIT 1988 §	Dactylopleustes sp. A	£871
0 0007 1117 (7 00)	Family Pleustidae	1782
	Superfamily Leucothoidea	1871
(Bate 1857)	Westwoodilla caecula	1780
Mills 1962	Synchelidium shoemakeri	6771
Mills 1962	Synchelidium rectipalmum	8771
(Boeck 1861)	Monoculodes norvegicus	2221
Stephensen 1931	Monoculodes latissimanus	9221
J. L. Barnard 1962	Monoculodes hartmanae	1775
J. L. Barnard 1962	Monoculodes emarginatus	4771
J. L. Barnard 1971	Bathymedon vulpeculus	1773
J. L. Barnard 1962	Bathymedon roquedo	1772
J. L. Barnard 1962	Bathymedon pumilus	1771
J. L. Barnard 1966	Bathymedon kassites	0771
	Family Oedicerotidae	6941

(Norman 1869)	səqisemen assignA	1885
	Family Argissidae	1881
J. L. Barnard 1972	Tiron tropakis	1883
J. L. Barnard 1962	Tiron biocellata	1882
SCAMIT 1987 §	A qs sonttye	1881
Shoemaker 1964	snoriignol จoหาาy2	1880
ž 8881 nildgus.Ž	Garosyrrhoe sp A	6781
(J. F. Barnard 1962)	Garosyrrhoe bigarra	8781
G. O. Sars 1883	Bruzelia tuberculata	7781
	Family Synopiidae	1876
2047 (	Supertamily Synopioidea	1875
Hurley 1963	Socarnoides illudens	4781
Hurley 1963	Socarnes hartmani	1873
(J. L. Barnard 1966)	Schisturella tracalero	1872
(Hurley 1963)	Schisturella dorotheae	1781
J. L. Barnard 1966	Schisturella cocula	0781
J. L. Barnard 1964 (J. L. Barnard 1964)	Kimakoroga rima	6981
Hurley 1963	Prachynesia iodo	8981
(Boeck 1861)	Orchomene pinguis Pachynus barnardi	7981
(Gurjanova 1938)	Orchomene pacificus	9981
(Hurley 1963)	Orchomene decipiens	1865
J. L. Barnard 1964	Orchomene anaquelus	1864
Hurley 1963	opisa tridentata	1863
SCAMIT 1985 §	Lepidepecreum sp A	1862 1862
Hurley 1963	Lepidepecreum gurjanovae	1860
Hurley 1963	Lepidepecreum garthi	1829
Diener 1990 §	A qz nobəmoqqiH	1828
Hurley 1963	sumisəsəz nobətnoqqill	1857
J. I., Barnard 1966	Hippomedon tenax	1826
Hurley 1963	Hippomedon subrobustus	1822
Jarrett & Bousfield 1982	Hippomedon columbianus	1854
(Stout 1913)	silimissib assanimissi <b>Q</b>	1823
Holmes 1908	Aruga oculata	1825
J. L. Barnard 1955	isəmlon agunA	1881
SCAMIT 1985 §	A qs saitsinA	1820
Boeck 1871	ig≀od∍įlili xynonA.	6481
Hurley 1963	Acidostoma hancocki	1848
	Family Lysianassidae	7481
(coct pinting of to)	Superfamily Lysianassoidea	1846
(J. L. Barnard 1969)	Tiburonella viscana	1842
SCAMIT 1987 §	Rhepoxynius sp. A Family Platyischnopidae	1844
(J. L. Barnard 1960)	Rhepoxynius variatus A as suinyxynd	1843
(J. L. Barnard 1960)	Rhepoxynius stenodes Rhepoxynius yatiatus	1842
J. L. Barnard & C. M. Barnard 1982	Rhepoxynius menziesi Rhepoxynius stenodes	1841
(J. L. Barnard 1960)	Rhepoxynius Iucubrans Phepoxynius mensiesi	1840
(J. L. Barnard 1960)	Rhepoxynius heterocuspidatus Phenoxynius luguheens	1838 1839
(J. L. Barnard 1960)	Khepoxynius fatigans	7881 8881
(J. L. Barnard 1960)	Rhepoxynius daboius	1836
(J. L. Barnard 1960)	Is he poxynius bicuspidatus	1832
(J. L. Barnard 1960)	Rhepoxynius abronius	1834
(G. O. Sars 1879)	Paraphoxus oculatus	1833
(Scott 1890)	Parametaphoxus fultoni	1832
(J. L. Barnard 1963)	Metharpinia jonesi	1831
J. L. Barnard 1980	Metharpinia coronadoi	1830
J. L. Barnard 1960	Metaphoxus frequens	1829
J. L. Barnard 1957	isəlig suxodqoludibasM	1828
(Holmes 1908)	Heterophoxus oculatus	1827

(Krøyer 1842)	Melita dentata	7761
J. L. Barnard 1969	Maera vigota	5491
Stout 1913	Маега simile	1942
(J. L. Barnard 1959)	Hornellia occidentalis	1961
J. L. Barnard 1962	Elasmopus mutatus	0761
J. L. Barnard 1979	Elasmopus bampo	
(Say 1818)	Dulichiella appendiculata	1939
(Holmes 1908)	Ceradocus spinicaudus	1938
(0001 1-11)		1937
SCAMIT 1987 §	Megaluropidae genus A sp A Family Melitidae	1936
(McKinney 1980)		1935
()Morrison 1090)	Gibberosus myersi	1634
	Family Megaluropidae	1933
	Melphisana "bola"	1935
	Family Melphidippidae	1561
(1+47 !!!!!!!!!!	Superfamily Melphidippoidea	1930
(Thorsteinson 1941)	Eohaustorius washingtonianus	1929
	Family Haustoriidae	1928
	Superfamily Pontoporeioidea	1927
J. L. Barnard 1954	Byblis veleronis	1926
J. L. Barnard 1960	Ampelisca unsocalae	1925
J. L. Barnard 1954	Ampelisca shoemakeri	1924
J. L. Barnard 1954	igimo1 səsiləqmA	1923
4981 nosqmi18	Ampelisca pugetica	1922
80el aarnioH	Ampelisca pacifica	1921
J. L. Barnard 1954	Ampelisca milleri	1920
Holmes 1908	Ampelisca lobata	
J. L. Barnard 1954	Ampleises indentata	6161
	Атрейзса "hапсоскі"	1918
J. L. Barnard 1954	Ampelisca cristata microdentata	7161
Holmes 1908	Ampelisca cristata	9161
Dickinson 1982	Ampelisca careyi	1915
J. L. Barnard 1954		4191
Roney 1990	Ampelisca brevisimulata	5161
(Judd 1896)	Ampelisca brachycladus	1912
(3081 PP1)	Ampelisca agassizi	1191
	Family Ampeliacidae	0191
(J. L. Barnard 1958)	Superfamily Ampeliscoidea	1909
	Guernea reduncans	1908
(Alderman 1936)	snobirt sulytA	1907
	Family Dexaminidae	9061
S 1017 77777	Supertamily Dexaminoidea	9061
SCAMIT 1987 §	Listriella sp A	190⊄
J. L. Barnard 1959	Listriella melanica	1903
J. L. Barnard 1959	Listriella goleta	1902
J. L. Barnard 1959	Listriella eriopisa	1961
J. L. Barnard 1959	Listriella diffusa	1900
J. L. Barnard 1959	Listriella albina	1899
	Family Liljeborgiidae	8681
	Superfamily Liljeborgioidea	7681
J. L. Barnard 1959	Pardaliscella symmetrica	9681
G. O. Sars 1895	Pardalisca tenuipes	3681
Bruzelius 1859	Nicippe tumida	≯681 ⊒081
(J. L. Barnard 1962)	Halicoides synopiae	£981 1898
	Family Pardaliscidae	
	Superfamily Pardaliscoidea	1892
(J. L. Barnard 1969)	Coboldus hedgpethi	1891
G I I/	Family lphimediidae	1890
Hurley 1956	Stegocephalus hancocki Eamily Inhimediidae	6881
2201IIIII	Family Stegocephalidae	8881
	Superfamily Stegocephaloidea	7881
	Sunatramily Sterocepheloides	1886

CCCI pipilipgi grice	ca an do idouese acomo		
J. L. Barnard 1959	Rudilemboides stenopropodus		2002
(Spoemaker 1942)	Paramicrodeutopus schmitti		2001
Stephensen 1938	Grandidierella japonica		5000
Conlan & Bousfield 1982	Columbaora cyclocoxa		1999
(Stout 1913)	Ветіог сопсализ		1998
(1. L. Barnard 1962)	Bemlos audbettius		4661
Conlan & Bousfield 1982	Aoroides səbioroA		9661
Conlan & Bousfield 1982	Aoroides intermedia		1995
Conlan & Bousfield 1982	Aoroides inermis		⊅66↓
Conlan & Bousfield 1982	Aoroides exilis		1993
Malker 1898	Aoroides columbiae		1992
J. L. Barnard 1959	Acuminodeutopus heteruropus		1991
	Family Aoridae		0661
Conlan 1990	Jassa slatteryi		1989
Paquette 1989 §	Ischyrocerus sp C		8881
J. L. Barnard 1969	Ischyrocerus sp B		7861
J. L. Barnard 1962	Ischyrocerus pelagops		9861
(J. L. Barnard 1954)	ischyrocerus litotes		3861
Krøyer 1838	Ischyrocerus anguipes		1981
(Stimpson 1853)	Ericthonius rubricornis		1983
(Dana 1853)	Ericthonius brasiliensis		1982
(020)	Cerapus "tubularis"		
	Family Ischyroceridae		1981
J. L. Barnard 1966	Protomedeia prudens		1980
J. L. Barnard 1962	Ргоготеденя аггісиlага		6761
Myers 1976 §	A qs sisona		4761 8761
WEC 1988 \$	Photis sp C		9791
Paquette 1987 §	A qs sisod		9791
WBC 1972 §	A qs sitod		4791
J. L. Barnard 1962	Photis viuda		£791
Conlan 1983	snobivist prividons	23	2791
J. L. Barnard 1962	Photis macrotica		1791
Conlan 1983	Photis macinerneyi		0791
J. L. Barnard 1962	Photis lacia		6961
Alderman 1936	Photis conchicola		1968
Stout 1913	Photis californica		2961
Spoemaker 1942	Photis brevipes		9961
J. L. Barnard 1962	Photis bifurcata		9961
(Malker 1898)	Gammaropsis thompsoni		7961
(J. L. Barnard 1962)	Gammaropsis ociosa		£961
(J. L. Barnard 1964)	Gammaropsis martesia		. 2961
Kudryashov & Trvetkova 1975	Gammaropsis barnardi		1961
(Stout 1913)	Chevalia inaequalis		0961
J. L. Barnard 1959	Amphideutopus oculatus		1926
(J. L. Barnard 1958)	Ampelisciphotis podophthalma		1928
·	Family Isaeidae		Z961
(J. L. Barnard 1965)	Peramphithoe tea		9961
(J. L. Barnard 1965)	Peramphithoe plea		1922
(Gurjanova 1938)	ьсгатрыйное теа		7961
(Gurjanova 1938)	Peramphithoe lindbergi		1961
(Stimpson 1864)	Peramphithoe humeralis		1962
(Stout 1912)	Cymadusa uncinata		1961
Smith 1873	Bbilby əodiiqmA		1961
8281 niuobuA	Amplihoe raymondi		1949
Shoemaker 1938	Ampithoe plumulosa		8481
•	Family Ampithoidae		2761
	Superfamily Corophioidea		9761
J. L. Barnard 1962	Melita desdichada		9761
<b></b>	The state of the s		3101

Family Corophiidae

Kathbun 1902	Spirontocaris snyderi	5060
(Dana 1852)	Spirontocaris lamellicornis	5029
T491 sindiloH	Spirontocaris holmesi	5028
Chace 1951	Hippolyte clarki	2057
Holmes 1895	Hippolyte californiensis	5026
7491 siudiloH	Heptacarpus stimpsoni	<b>5022</b>
(I 781 nosqmi12)	Heptacarpus pictus	S024
(Owen 1839)	Heptacarpus palpator	5023
Wicksten & Butler 1983	Eualus lineatus	202
	Family Hippolytidae	2021
Cadien 1986 §	A qs suənomla2	5020
Lockington 1877	Betaeus longidactylus	2049
Rathbun 1904	Betaeus harrimani	2048
(Kingsley 1878)	Betaeus harfordi	2047
Glassell 1938	Betaeus ensenadensis	5046
SCAMIT 1993 §	Automate sp A	5042
Lockington 1877	Alpheus clamator	5044
Holmes 1900	Alpheus californiensis	2043
Lockington 1877	Alpheus bellimanus	S04S
(Lockington 1877)	Alpheopsis equidactylus	2041
TE:	Family Alpheidae	5040
	Superfamily Alpheoidea	2039
	unidentified	5038
	Family Oplophoridae	2037
	Supertamily Atyoidea	5036
	Suborder Caridea	S032
(Burkenroad 1938)	sitnəgni ainoyəi2	2034
	Family Sicyoniidae	2033
	Superfamily Penaeoldea	2032
	Suborder Penaeidea	2031
	Order Decapoda	2030
	Superorder Eucarida	5059
(\$681 nosqmi32)	Metacaprella kennerlyi	2028
Benedict 1978 §	Caprella sp $oldsymbol{E}$	2027
Boeck 1872	Caprella verrucosa	5056
Leach 1814	Caprella penantis	<b>5052</b>
(Mayer 1903)	Caprella natalensis	2024
Mayer 1903	Caprella mendax	2023
Mayer 1903	Caprella gracilior	2022
Say 1818	Caprella equilibra	2021
Sel nosqmit	Caprella californica	2020
	Family Caprellidae	2019
Mayer 1890	ธกธตก์ได้ ธโโรว์เวโ	8102
0791 stiduaL	Mayerella banksia	7102
Mayer 1890	Deutella californica	2016
	Family Aeginellidae	2012
_	Supertamily Caprelloidea	2014
Benedict 1978 §	A qs oʻsorqiməH	2013
	Family Phtisicidae	2012
	Superfamily Phiisicoidea	S011
(	Suborder Caprellidea	2010
(Thomson 1879)	Podocerus cristatus	2003
(Dana 1853)	Podocerus brasiliensis	2008
	Family Podoceridae	2002
Crawford 1937	Corophium insidiosum	2006
Shoemaker 1934	Corophium baconi	<b>S002</b>
Costa 1857	Corophium acherusicum	2004
	oppunderee forms :	

Holmes 1900	Pachycheles pubescens	5113
000, **********************************	Family Porcellanidae	2118
0381 nosqmi12	Pleuroncodes planipes	2112
	Family Galatheidae	2116
(de Saint Laurent 1972)	Sympagurus haigae	2115
	Family Parapaguridae	2114
Schmitt 1921	Pylopagurus holmesi	2113
(Benedict 1892)	Phimochirus californiensis	2112
McLaughlin & Haig 1973	Рагаравигодся такагочі	2111
McLaughlin & Haig 1973	Parapagurodes laurentae	2110
TTEL gisH	sugrecoliqs suruge¶	2109
(Stimpson 1857)	Pagurus samuelis	2108
Wicksten 1982	Pagurus redondoensis	2107
(9281 nosqmi12)	Pagurus granosmianus	2106
(1281 ana (1291)	Pagurus armatus	2105
(Holmes 1900)	suminim surugaqodirO	2104
(Scanland & Hopkins 1969)	Haigia diegensis	2103
(Glassell 1937)	Enallopaguropsis guatemoci	2102
	Family Paguridae	2101
Schmitt 1921	Paguristes ulreyi	S100
(7881 nosqmi12)	Paguristes turgidus	5099
Holmes 1900	Paguristes parvus	2098
Holmes 1900	Paguristes bakeri	2092
(Nolnies 1900)	susoliq sələhəəsi	2096
	Family Diogenidae	2095
	Infraorder Anomura	2094
8801 smailliW	ក្លាបរាក១រាំរពីខ្មែននិក្សា និះខ្មែនក្រា $ar{U}$	2093
8861 smsilliW	and side side side side side side side sid	2092
(+cot nung)	Family Upogebiidae	2091
(Holthuis 1991) (Dana 1854)	Neotrypaea californiensis	2090
(1991 sindtloH)	Neotrypaea biffari	2089
(Glassell 1938)	Family Callianassidae	8802
(9£01 Ilease(5))	Naushonia macginitiei	2087
(Rathbun 1902)	Acanthaxius spinulicaudus Family Laomediidae	5086
(6001 5.144,54)	Family Axiidae	5085
	Infraorder Thalassinidea	2084
Kandali 1839	Panulirus interruptus pabigiseshad tabtaerial	2082 2083
2	Family Palinuridae	2083
	Infraorder Palinura	2080
	Suborder Reptantia	2080
	unidentified	8702
	Family Palaemonidae	2077
	Superfamily Palaemonoidea	9702
(Rathbun 1902)	Кһупостапвоп аlаtа	2075
(Chace 1937)	Neocrangon zacae	2074
(Rathbun 1902)	Neocrangon resima	2073
(Rathbun 1899)	гіпиттоэ повпялэоэМ	2072
(Rathbun 1902)	Metacrangon spinosissima	1702
(Walker 1898)	Mesocrangon munitella	2070
Lockington 1877	Crangon nigromaculata	2069
Rathbun 1902	Crangon holmesi	2068
Kuris & Carlton 1977	Crangon handi	Z067
Holmes 1900	Crangon alba	5066
Lockington 1877	Crangon alaskensis	2065
	Family Crangonidae	2064
Rouey 1978 §	Superismily Crangonoidea	2063
2 9701 vano V	espidy Ogyridiaee A qs səbrivgO	2062
	Family Oqvididae	2061

Rathbun 1918	Гіппіха меутопіћі	2178
Holmes 1894	slooidut sxinni¶	2117
(Lockington 1876)	Pinnixa tomentosa	2176
Rathbun 1918	Pinnixa schmitti	2175
Rathbun 1893	Pinnixa occidentalis	カイトス
Zmarzly 1992	Pinnixa minniscula	2173
(Lockington 1876)	səqiynol sxinniA	2112
Rathbun 1918	sutain axinni¶	1712
Rathbun 1918	Pinnixa franciscana	2170
Zeel ylsam.Z	sunsmilusitrot sxinniA	2169
Rathbun 1918	inatan baraharti	2168
Rathbun 1893	sus 15 vens 11 su qod 1 si qo	2167
Dana 1851	Fabia subquadrata	2166
(Rathbun 1893)	Fabia concharum	2165
	Family Pinnotheridae	5164
Randall 1839	esqissara susqarayyaa	2163
(Dana 1851)	Hemigrapsus oregonensis	2162
(Dana 1851)	subun susqangiməH	5161
	Family Grapsidae	2160
(Lockington 1876)	Tophopanopeus leucomanus	2129
(Rathbun 1893)	Lophopanopeus frontalis	2128
(Stimpson 1860)	Tophopanopeus bellus	2157
	Family Xanthidae	2126
(Stimpson 1860)	iisutnas sunutroq	<b>S122</b>
	Family Portunidae	2154
Randall 1839	Cancer productus	2123
Rathbun 1900	Cancer jordani	2152
Dana 1852	Cancer gracilis	2121
Rathbun 1926	Cancer branneri	5120
Rathbun 1879	Сапсег апгhопуі	2149
Stimpson 1856	Cancer antennarius	2148
Rathbun 1898	Cancer amphioetus	7412
	Family Cancridae	2146
(Dana 1854)	Heterocrypta occidentalis	5142
	Family Parthenopidae	2144
(Lockington 1877)	Pyromaia tuberculata	2143
Dana 1851	iidəir sittəgu¶	2142
Rathbun 1893	illab aittəguA	2141
Rathbun 1925	Podochėla lobifrons	5140
(Lockington 1877)	Podochela hemphillii	2139
(Lockington 1877)	sbiant silə¶	2138
Stimpson 1857	Loxorhynchus grandis	2137
Stimpson 1857	Loxorhynchus crispatus	2136
Rathbun 1893	Erileptus spinosus	5132
	Family Majidae	2134
(Randall 1839)	Randallia ornata	2133
Rathbun 1898	Randallia bulligera	2132
	Family Leucosiidae	2131
Milne Edwards 1837	Platymera gaudichaudii	5130
	Family Calappidae	5159
(Rathbun 1900)	Deilocerus planus	2128
	Family Dorippidae	22127
	Infraorder Brachyura	2126
Efford 1971	Lepidopa californica	2125
Randall 1839	Blepharipoda occidentalis	2124
	Family Albuneidae	2123
(7281 nosqmit2)	Emerita analoga	2122
	Family Hippidae	2121
(Randall 1839)	Petrolisthes cinctipes	2120
<del>-</del> -	V V V V V V V V V V V V V V V V V V V	0070

## SCAMIT Taxonomic Listing of Soft Bottom Macroinvertebrates

=	Suborder Chilophiurina	2236
H. L. Clark 1911	Ophionereis eurybrachiplax	2235
(Le Conte 1851)	Ophionereis annulata	2234
	Fam <sup>i</sup> ly Ophionereidae	2233
A. H. Clark 1921	Ophiopsila californica	2232
	Family Ophiocomidae	2231
Le Conte 1851	a piculata sindolhio da la	2230
2 -	Family Ophiotricidae	2229
Pt. Loma 1992 §	I qs sulqolaguoA	2228
(McClendon 1909)	sudinasanqma sulqolaguoQ	2227
Lütken & Mortensen 1899	эвэрэтоір влиіндтА	2226
H. L. Clark 1911	estetystate annihqmA	2225
(Delle Chiaje 1828)	s is man photo silo dquid A	2224
(Lyman 1860)	anaisguq silohqihqmA	2223
MBC 1985 §	A qs sulqoidqmA	2222
(H. L. Clark 1911)	xslqolygno132 sulqoidqmA	2221
H. L. Clark 1911	sudinssassad sulqoidqmA	2220
(Lyman 1860)	səifu siboidqmA	2219
H. L. Clark 1935	enesq siboihqmA	2218
(Lyman 1860)	silainəbiəəo siboidqmA	2217
Nielsen 1932	estesigib eiboidqmA	2216
Wielsen 1932	susolunarg suirbnodoidqmA	2215
	Family Amphiuridae	5514
McClendon 1909	Ophiopholis bakeri	2213
	qs sijosihqO	2212
	Family Ophiactidae	2211
	Suborder Gnathophiurina	5510
H. L. Clark 1911	sizalqib sd1nsosidqO	2209
	Family Ophiacanthidae	2208
	Suborder Laemophiurina	2207
	Order Ophiurida	5506
	Class Ophiuroidea	5502
(Brandt 1835)	səbioninsilən siboqonəyq	2204
(7281 nosqmi32)	Pisaster brevispinus	2203
	Family Asterlidae	2202
	Suborder Asteriadina	2201
	Order Forcipulatida	5500
(Brandt 1835)	albinita baitotk	2199
	Family Asterinidae	2198
St nosqmit2	Mediaster aequalis	2197
	Family Goniasteridae	2196
	Suborder Granulosina	2195
	Order Valvatida	2194
	Superorder Valvatacea	2193
de Loriol 1899	Astropecten verrilli	2192
Gray 1840	Astropecten armatus	1612
	Family Astropectinidae	5190
Grube 1866	Luidia foliolata	2189
Fisher 1906	Luidia asthenosoma	2188
Ludwig 1905	Luidia armata	7812
	Family Luidiidae	2186
	Order Paxillosida	2185
	Superorder Platyasteracea	2184
	SebioretzA zasiO	2183
	SozotetsA mulydddu2	2182
	PHYLUM ECHINODERMATA	2181
Rathbun 1893	Scleroplax granulata	2180
Holmes 1900	Pinnotheres pugettensis	2179

	Order Elasipodida	2294
(7281 nosqmit2)	Parastichopus californicus	2293
	Family Stichopodidae	2292
	Order Aspidochirotida	2291
	Subclass Aspidochotacea	2290
(H. L. Clark 1901)	Pseudocnus lubrica	2289
	Cucumaria sp	2288
	Family Cucumariidae	2887
Bergen 1977 §	Pentamera sp A	5286
Deichmann 1938	Pentamera pseudopopulifera	2285
Deichmann 1938	Pentamera pseudocalcigera	2284
(4081 nosqmi12)	Pentamera populifera	2283
(H. L. Clark 1924)	Pentamera lissoplaca	2282
(Deichmann 1938)	Havelockia benti var. zacae	2281
(Deichmann 1937)	Havelockia benti	2280
	Family Phyllophoridae	2279
(H. L. Clark 1901)	Pachythyone rubra	8722
	Family Sclerodactylidae	2222
H. L. Clark 1901	Psolus chitonoides	2276
10070 1 11	Family Psolidae	2275
	Order Dendrochirotida	2274 2075
	Class Holothuroidea	2273 2274
2781 sissegA .A	Lovenia cordiformis	
020; -; v	Family Loveniidae	2722
H. L. Clark 1917	Spatangus californicus	1722
Etot dello I H	Family Spatangidae	2270
(A. Agassiz 1898)	Brissopsis pacifica	5569
(000t aisses A A)	Family Brissidae  Krissonsis prosifica	2268
	Suborder Micrasterina	2567
(8981 sissagA .A)	Brisaster latifrons	5566
(900) 5:0000 ( )	Family Schizasteridae	5565
	Suborder Hemiasterina	5564 5564
	Order Spatangoida	2262 2262
	Superorder Atelostomata	
(Eschscholiz 1831)	Dendraster excentricus	2261
(1001 = 11 = 400 400 (1)	Family Dendrasteridae Dendroster eversteigns	5520 5528
	Suborder Scutellina	
	Order Clypeasteroida	2258
	Superorder Gnathostomata	2257
(Stimpson 1857)	Strongylocentrotus purpuratus	5526 5526
(8. Agassiz 1863)	Strongylocentrolus franciscanus	
(lackson 1912)	siliges1i sustonina>ollA	5524 5523
(0:0:	Family Strongylocentrotidae	
	Order Echinoida	2252
(Verrill 1867)	Lytechinus pictus	2251
(4501 11:/1)	Family Toxopneustidae	2250
	Order Temnopleuroida	2249
		2248
	Superorder Echinacea	7422
Tail	Subclass Perischoechinoidea	2246
	Class Echinoidea	2245
(Lyman 1860)	Subphylum Echinozoa	2244
H. L. Clark 1901	Ophiura luetkeni	2243
	Ophiura leptoctenia	2242
McClendon 1909	do noscondo	2241
	Ophiocien sp	2240
ICAT AUTOTUS CONT	Pamily Ophiutidae	2239
Ziesenhenne 1937	asoniamosonido vinna r	2238
	Family Ophiodermatidae	7622

Leidy 1855	Bowerbankia gracilis	5323
Busk 1886	snatsib aidtamA.	<b>5325</b>
2001 -1	Family Vesiculariidae	2321
	Supertamily Vesicularoidea	S320
	ds sholot	2349
van Beneden 1845	esemisq siləniugnA qq ellələld	
2181 gabagad gev		2348
	Family Arachnididae	2347
(57.57 (17.55.5)	Supertamily Arachnidioidea	2346
(Osburn 1912)	Triticella ellosia	2345
	Family Triticellidae	2344
(	Supertamily Valkerioidea	2343
(Fewkes 1889)	Clavopora occidentalis	2342
	Family Clavoporidae	2341
MEC 1991 §	A qz muibinoyəlA	2340
	Family Alcyonidiidae	2339
	SebioibinoyolA ylimshequ2	2338
	Suborder Protoctenostamata	2337
	Order Ctenostomata	2336
	Class Gymnolaemata	2332
Trask 1857	Crisia occidentalis	2334
	Family Crisiidae	2333
	Suborder Aniculata	2332
(Gabb & Horn 1862)	Tubulipora tuba	2331
2	ds sənoisi9	<b>S330</b>
	Family Tubuliporidae	2329
	Diaperoecia sp.	2328
	Family Diaperoeciidae	2327
	Suborder Tubuliporina	2326
	Order Cyclostomata	<b>5352</b>
	Class Stenolaemata	535¢
	PHYLUM ECTOPROCTA	2323
Hinds 1844	Glottidia albida	<b>335</b> 5
7781 -5-:11	Family Lingulidae	5351
	Supertamily Linguloidea	5350
	Order Lingulida	2319
	Class Inarticulata	2318
	PHYLUM BRACHIOPODA	2317
	qs sisqonorod¶	2316
	qs sinonod gs sispanoroda	331E
	Family Phoronidae	
		2314
	Spinoroder Photonida	2313 2313
12	AGINOROHID AGINOROHI MUJYHY	
	Family Eupyrigidae unidentified	2311
(J. Müller 1850)		5310
(781 nosqmits)	Paracaudina chilensis	5309
(S81 nosamits)	Caudina arenicola	2308
(+(01 914,227)	Family Caudinidae	2307
(Ludwig 1894)	Molpadia intermedia	2306
	Family Molpadiidae	2305
	Order Molpadida	2304
	Chiridota sp	2303
	Family Chiridotidae	2302
Benedict 1975 §	Leptosynapia sp B	2301
Benedict 1975 §	Leptosynapta sp A	2300
	Family Synaptidae	5539
	SpibodA 19b1O	2298
	Subclass Apodacea	2297
Théel 1882	$\Gamma$ аппусh $i$ а то $s$ е $i$ еу $i$	2296
	Family Laetmogonidae	2295

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4981 nosqmi12	Срејуоsота productum	2412
	Family Corellidae	2411
	Order Phlebobranchiata	2410
	Class Ascidiacea	2409
	Subphylum Urochordata	2408
	bəilified	2407
	Class Enteropneusta	2406
	Subphylum Hemichordata	2405
	PHYLUM CHORDATA	2404
Canu & Bassler 1923	Celleporina robertsoniae	2403
(Hincks 1884)	Celleporaria brunnea	2402
(1001 -1-211)	Family Celleporidae	2401
	as anittima o	
(Johnston 1838)	Parasmittina trispinosa	5400
(9591 20122401)	Family Smittinae	5399
Osburn 1952		2398
(Pallas 1766)	Microporella cribrosa	2397
(39Ll selled)	Microporella ciliata	5396
(2007 11017 20 0000)	Family Microporellidae	2395
(Sabl & Horn 1862)	Schizoporella cornuta	2394
(1017 0000000)	Family Schizoporellidae	2393
(Linnaeus 1767)	Celleporella hyalina	2392
	Family Hippothoidae	2391
	Suborder Ascophora	2390
(Robertson 1905)	Caulibugula californica	2389
Robertson 1905	esiiiseq eluguA	2388
(Linnaeus 1758)	sniiinən sluguA	2387
Robertson 1905	asassoriynol aluguA	2386
	Family Bugulidae	2385
(8281 niuobuA)	Synnotum aegyptiacum	2384
	Family Epistomiidae	2383
Osbi naudsO	Tricellaria praescuta	2382
(Trask 1857)	Tricellaria occidentalis	2381
Robertson 1905	Scrupocellaria diegensis	2380
	Family Scrupocellariidae	2379
	Superfamily Cellularoidea	8782
Robertson 1905	Cellaria diffusa	2377
	Family Cellariidae	2376
	Supertamily Pseudostegoides	2375
(Defrance 1823)	Discoporella umbellata	2374
	Family Lunulariidae	2373
(Levinsen 1909)	Thalamoporella californica	2372
	Family Thalamoporellidae	1782
	Superfamily Coilostegoidea	2370
(Hincks 1881)	Сраррегів расыв	5369
Osel naudsO	Chapperia californica	2368
	Family Chapperiidae	2367
(O'Donoghue 1923)	zirisoriliupa alləgəT	5366
(Hincks 1877)	Callopora circumclathrata	5365
	Family Calloporidae	2364
(0£91 agniseH)	Antropora tincta	2363
	Family Hincksinidae	2362
(Bosc 1802)	Membranipora tuberculata	S361
Desor 1848	Membranipora tenuis	5361
(8281 niuobuA)	Membranipora savarti	S320
Kirkpatrick & Metzelaar 1922	Conopeum commensale Membraningra savarti	
1 M. O .leinton.leiN	Family Membraniporidae	S328
	Superfamily Malacostegoidea	2327
		<b>5329</b>
	Order Cheilosfomata Suborder Anasca	S322
	ote motaviled Data A	5324

## SCAMIT Taxonomic Listing of Soft Bottom Macroinvertebrates

J. G. Cooper 1893	Branchiostoma californiense	2427
	Family Branchiostomatidae	2426
	Subphylum Cephalochordata	5452
Ritter 1907	Molgula regularis	2424
Van Name 1945	Eugyra arenosa californica	5453
	Family Molgulidae	2422
OK <sup>g</sup> 1909	ejodegi sidinyəoləl	2421
(Ritter 1907)	Bathypera ovoida	2420
	Family Pyuridae	2419
(581 nosqmi12)	Styela gibbsii	2418
(Alder & Hancock 1848)	Styela coriacea	2417
	Family Styelidae	2416
*	Order Stolldobranchiata	2415
Alel nemernuH	Agnesia septentrionalis	2414
	Family Agnesiidae	2413

736 738	Amphilochus "neapolitanus" Amphinemertes caeca	Z338 Z338	Alcyonidiidae-Family Alcyonidioidea-Superfamily
S6LI	Amphilochus picadurus	89	Alcyonaria-Subclass
£671	Amphilochus litoralis	2123	Albuncidae-Family
7671	Amphilochidae-Family	745	qs sdslA
9511	Amphiduros pacificus	2413	Agnesiidae-Family
6561	Amphideutopus oculatus	2414	Agnesia septentrionalis
1362	Amphicteis scaphobranchiata	9\$	qs sinəriqosigA
1361	Amphicteis mucronata	1532	Aglaophamus erectans
1360	erdelg sistoinqmA	1234	airrioib aumanqoalgA
2215	eusolunis grandonainqmA	828	Vilani - Pamily
1322	Ampharetidae-Family	230	A qa sisigA
1329	Ampharete labrops	259	Aglaja ocelligena
1328	Ampharete arctica	452	Acsophus curytoideus
LSEI	Ampharete acutifrons	66\$	Aeolidioidea-Superfamily Aeolidoida-Suborder
1909 1958	Ampeniscoidea-Superfamily	809 119	Aeolidiidae-Family
1910	Ampeliscidae-Family Ampelisciphotis podophthalma	119	Acolidicila sp
L161	Ampelisca "hancocki" Ampeliscidae-Family	219	Acolidia papillosa
1925	Ampelisca unsocalae	878	Aegires albopunctatus
1924	Ampelisca shoemakeri	2015	Aeginellidae-Family
1923	Ampelisca romigi	6691	Aegidae-Family
1922	Ampelisca pugetica	816	Aedicira pacifica
1261	Ampelisca pacifica	<b>*************************************</b>	qs slubA
1920	Ampelisca milleri	069	Adontorhina sphaericosa
1919	Ampelisca lobata	689	Adontorhina cyclia
1918	Ampelisca indentata	428	Admete rhyssa
9161	Ampelisea eristata mierodentata	1661	Acuminodeutopus lieteruropus
2191	Ampelisca cristata	<i>L</i> 6	Actiniaria-Order
1914	Ampelisca careyi	514	Acteonoidea-Superfamily
1913	Ampelisca brevisimulata	SIS 91S	Acteonidae-Family
1915 1911	Ampelisca brachycladus	\$25	Acteocina inculta Acteon traskii
SLÞI	Ammothelis setosa Ampelises agassizi	523	Acteocins harps
7L7 [	Ammotheidae-Family	222	Acteocins culcitella
977	Americardia biangulata	131	Acotylea-Suborder
SLII	qs sillysoyldmA	1134	Acoetidae-Family
7651	eddigin sisyminismA	1136	Acoetes pacifica
2352	Amathia distans	SEII	Acoetes mortenseni
1688	Amakusanthura californiensis	<b>L16</b>	O qs srimoA
1326	Amage agons agamA	916	Acmit stimo A
1381	Amaeana occidentalis	516	Acmira lopezi
318	enszor sinsvlA	<b>Þ</b> 16	Acmira horikoshii
LIE	Alvania acutelirata	613	іілтээ вішэА
2044	Alpheus clamator	912	Acmira catherinae
2043	Alpheus californiensis	788	Acmaeidae-Family
2042	Appeus bellimanus	687 289	Acila castrensis Acmaea mitra
2041 2036	Alpheoidea-Superfamily Alpheopsis equidactylus	18 <del>4</del> 8	Acidostoms hancocki
2040	Alpheidae-Family	1202	Acarina-Order
2253	Allocentrotus fragilis	18	Acanthoptilum annulatum
226	A qs sillA	0651	Acanthomysis californica
126	Alia ramosa	SLS	Acanthodoris rhodoceras
076	assinom silla	₽LS	Acanthodoris brunnea
616	etannetna sillA	2085	Acanthaxius spinulicaudus
1651	Alienacanthomysis macropsis	<b>£9</b>	qa sinanisidA
456	Alia carinata	1044	Abarenicola pacifica
655	Alderia modesta		
2340	A qa muidiunyəlA		$\Psi$
OFCC	A an amibiaomiA		•

		<b>†</b> S	
1820	A qe ssileinA	7494	Anoplodactylus pacificus
£Z6	Aricidea sassi	1493	Anoplodactylus oculospinus
<b>5</b> 24	Aričidea sp B	1492	Anoplodactylus nodosus
<b>L68</b>	Arhynchite californicus	1671	Anoplodactylus erectus
999	Argopecten ventricosus	1490	Anoplodactylus californicus
1884	Argissidae-Family الم	1488	Anoplodactylida-Suborder
1885	Argissa hamatipes	6 <b>L</b> I	Anopla-Class
1043	Arenicolidae-Family	ZIZ	A qa A sunag siqonA
1718	Arcturidas- بالمارية والترايية المارية	1846	Anonyx lilljeborgi
9111	Arctonoe pulchra	5094	Anomura-Infraorder
SIII	Arcteobia of anticostiensis	\$ <b>L</b> 9	Anomioidea-Superfamily
180	Archinemertea-Order	919	Anomiidae-Family
182	Archaeogastropoda-Order	\$18	Anomalodesmata-Subclass
1263	Archaeobalanidae-Family	1363	aracilis aracilis
1665	O qs studgstA	668	Annelida-Phylum
1991	Araphura ga	2348	Anguinella palmata
1663	A qs siudgeiA	124	Anemone #76
2346	Arachnidioidea-Superfamily	۲0۲	Anemonactis sp
7452	Arachnidiidae-Family	TLS	Ancula pacifica
1499	szel D-sbindəs A	OLS	Ancula lentiginosa
76	À qe sudinendaerA	8911	Ancistrosyllis groenlandica
1306	Arabellidae-Family	<i>L</i> 911	Anciatrosyllis breviceps
30EI	างในว่าน่ ยไม่ปราคั	9911	etemen signetaionA
1307	Arabella endonata	1645	Anchicolurus occidentalis
246	Apoprionospio pygmaea	2322	Anasca-Suborder
IttI	iizmit autamoqA	0491	Anarthruridae-Family
8622	Apodida-Order	\$49	mulubillsq mulsbgymA
<b>L622</b>	Apodacea-Subclass	ZÞ6I	Ampithoidae-Family
760	Aplacophora-Class	1950	Ampithoe valida
626	sutsmo sudonerdotsiqA	1949	Ampithoe raymondi
826	Vlims T-sabirtans representation of the same of the sa	1948	Ampithoe plumulosa
288	Apionsoma misakiana	ς	Amphoriscidae-Family
9011	Aphroditoidea-Superfamily	2214	Amphiuridae-Family
1105	Aphroditiformia-Suborder	2226	Amphiura diomedeae
1107	Aphroditidae-Family	2225	Amphiura arcystata
1113	A qs silbondaA	1382	Amphitrite robusta
1112	Aphrodita refulgida	459	Amphissa versicolor
IIII	Aphrodita japonica	428	stsbau sezidqmA
1110	Aphrodita castanea	724	Tolosid szaingmA
6011	Aphrodita brevitentaculata	739	A qs suroqidqmA
1108	Aphrodita armifera	732	A qs suroqidqmA
1012	O qs stassioolaide	734	sulladırı sırıoqindmA
1010	Aphelochaeta sp B	233	susoniqsinsqmi suroqidqmA
	Aphelochaeta multifilis	737	Amphiporus cruentatus
1006 1660	Aphelochaeta monilaria	731	Amphiporus californicus
\$66I	Acroides spinora	230	Amphiporus bimaculatus
1995	Aoroides intermedia	578	Amphiporidae-Family
£66I	Acroides incrmis	575	B qs sebroquideA
1992	Aoroides exilis	†\$ <u>L</u> I	Amphipoda-Order
0661	Aoridae-Family Aoroides columbiae	2224	snsraguq silonqinqmA sramaups silonqinqmA
146	A qs səbinoA	2223	
2363	Antroportin A	2221	Amphioplus strongyloplax
897	Antiplanes sp	2222	Amphioplus hexacanthus Amphioplus ap A
9891	Anthurides-Suborder	5770	
489I	Anthuridae-Family	6177	Amphiodis urtica
L091	Anthoxos-Class	8172	Amphiodia psara
128	musoises preciosum	721 <i>7</i> 221 <i>9</i>	Amphiodia occidentalis
1030	Anotomastus gordiodes	1252	Amphinomida Order statigib siboidqmA
1030	Anoropallene palpida	1253	
COYL	shinten analtenesenA	1361	Amphinomidae-Family

9761	Byblis veleronis	319	Barleeidae-Family
413	Bursidae-Family	320	Barleeia californica
245	Bulloidea-Superfamily	957	Barentsiidae-Family
243	Bullidae-Family	728	Barentsia gracilis
775	Bulla gouldiana	LSZ	Barentsia benedeni
2385	Bugulidae-Family	895	
2388	Bugula pacifica	L9\$	
7387	Bugula neritina	995	
2386	Bugula longirostata	195	
5866	Buccinoidea-Superfamily	295.	
		\$95.	
434	Buccinidae-Family	423	Babelomurex oldroydi
1877	Bruzelia tuberculata	ECV	Debelommen oldered:
2268	Brissopsis pacifica		a
<b>Z</b> 267	Brissidae-Family		${f B}$
2265	Brisaster latifrons		
9411	Grania sp		_
2426	Branchiostomatidae-Family	169	Axinopsida serricata
7427	Branchiostoma californiense	6	Axinellida-Order
1338	Brada villosa	01	Axinellidae-Family
LEEI	Brada pluribranchiata	II	Axinella sp
2126	Brachyura-Infraorder	<b>†80</b> 3	Axiidae-Family
2317	Brachiopoda-Phylum	5042	
5323	Bowerbankia gracilis	17.1 th	
97	Bougainvilliidae-Family	418	Austrotrophon cerrosensis estalinensis
IELI	Bopyroidea-Superfamily	920	
1732	Bopyridae-Family	406	
768	Bonelloinea-Order	242	Atyidae-Family
£68	Bonelliidae-Family	<b>*I</b>	Athecatae-Order
1191	Bodotriidae-Family	197	_
SÞ6	Boccardiella sp	061	4
776 Ch6	Boccardia pugettensis	7617	
643	Boccardia basilaria	1617	
2124	Blepharipoda occidentalis	LZ8	Asthenothaerus diegensis
519	Bivalvia-Class	182	
343	Bittium rugatum	122	
342	Bittium quadrifilatum	183	
341	Bittium larum	8613	
1416	qe sriqeiA	6617	
LZ	Bimeria sp	202	
2049	Betaeus longidactylus	102	
2048	Betaeus harrimani	088	Aspidosiphonidae-Family
7602	Betaeus harfordi	0673	Aspidochotacea-Subclass
2046	Betaeus ensenadensis	167	Aspidochirotida-Order
LtL	Bernardinidae-Family	322	Asperiscala lowei
1998	Ветов сопсачия	324	Asperiscala bellastriata
<b>L661</b>	Bemlos audbettius	134 1	Asellota-Suborder
LtLI	Belonectes sp A	068	Ascophora-Suborder
2420	Bathypera ovoida	LLO	
ELLI	Bathymedon vulpeculus	601	
ILLS	Вагиуте содие содие содие содие соди соди соди соди соди соди соди соди	394	
1441	Bathymedon pumilus	228.	
0771	Bathymedon kassites	128.	
1224	Bathyleberis hancocki	332	
1523	Bathyleberis garchi	895	
1222	Bathyleberis californica	408	
1495	Bathyleberis galifornica	383	
1971	Bathydrilus litoreus Bathydrilus parkeri		
		185	Arminoides-Suborder
9941	Bateidae-Family	\$6\$	ylimeA-sebinimA
L9L1	Batea transversa	965	Armina californica
213	Baseodiscus sp	690	Armandia brevis

697	Сраегодетта sp	2022	Caprella gracilior
348	Cerithiopsoidea-Superfamily	2021	Caprella equilibra
320	Cerithiopsis sp	2020	Caprella californica
346	Cerithiopsidae-Family	1028	Capitellida-Order
336	Cerithioidea-Superfamily	1029	Capitellidae-Family
340	Cerithiidae-Family	1601	Capitella "capitata"
16	Cerianthidae-Family	SI	Capitata-Suborder
68	Ceriantharia-Order	2146	Cancridae-Family
96	Ceriantharia g	2123	Cancer productus
\$6	Ceriantharia sp C	2152	Cancer jordani
202	Cerebratulus montgomeryi	2121	Cancer gracilis
201	Cerebratulus marginatus	2150	Cancer branneri
200	Cerebratulus lineolatus	2148 7148	Cancer anthonyi
166	Cerebratulus californiensis	2148	Cancer amphioetus Cancer antennarius
198	Cerebratulus albitrons	954	Cancellaroidea-Superfamily
<b>119</b>	Cerberilla mossiandica	LSP	Cancellariidae-Family
1209	Ceratonereis mirabilis	097	Cancellaria crawfordiana
1861	Cerapus "tubularis"	654	Cancellaria crawfordiana
1937	Ceradocus spinicaudus	763 1632	Campylaspis sp P
181 298	Cephalothricidae-Family	1634	Campylaspis sp E
918I	Cephalophoxoides homilis Cephalopoda-Class	1633	Campylaspis sp D
27.77	Cephalochordata-Subphyium	1632	Campylaspis sp C
EIS	Cephalaspidea-Order	1631	Campylaspis sp B
955	Cephalaspidea sp A	1630	Campylaspis sp A
87££	Cellularoidea-Superfamily	1629	Campylaspis rufa
2403	Celleporina robertsoniae	1628	Campylaspis rubromaculata
2401	Celleporidae-Family	1627	Campylaspis harrae
7397	Celleporella hyalina	1626	Campylaspis cf crispa
2402	Celleporaria brunnea	1625	Campylaspis canaliculata
9/EZ	Cellariidae-Family	<b>†</b> \$	Campanulina sp
7377	Cellaria diffusa	40	Campanulariidae-Family
373	Cecina sp	ΙÞ	Campanularia volubilis
1014	Caulleriella hamata	381	Calyptracoidea-Superfamily
STOT	Caulleriella gracilis	382	Calyptraeidae-Family
1013	Caulleriella alata	384	Calyptraea fastigiata
2389	Caulibugula californica	585	Calyptraes contorts
7367	Caudinidae-Family	05	Calycella syringa
2308	Caudina arenicola	7364	Calloporidae-Family
184	Carinomidae-Family	2365	Callopora circumclathrata
181	Carinomella lactea	133	Calloplanidae-Family
182	Carinoma mutabilis	1481	Callipallenidae-Family
2035	Caridea-Suborder	1483	Callipallene pacifica
£69	Carditoidea-Supertamily	667	Calliostoma turbinum
<b>769</b>	Carditidae-Family	862	Calliostoma tricolor
839	Cardiomya planetica	Z6Z	Calliostoma annulatum
838	Cardiomya pectinata	2088	Callianassidae-Family
7£8	Cardiomya costata	26E	Calinaticina oldroydii
928	Cardiomya californica	7691	Califanthura squamosissima
724	Cardioidea-Superfamily	3 7	Calcarenca-Subclass
725	Cardiidae-Family	517	Calappidae-Family
946 5014	Caprelloidea-Supertamily Carazziella sp	LZE	Caecum dalli
2010		326	Caecum crebricinctum
5010	Caprellides-Suborder	325	Caecum californicum
2026	Caprella verrucosa Caprellidae-Family	324	Caecidae-Family
700Z	Caprella verrucosa	757I	Caecianiropsis sp
2022	Caprella penantis	601	Cactosoma arenaria
2024	Caprella natalensis	301	
2023	Caprella mendax		Э
0000	vokaam ellasee		5

<b>389</b>	Crepidula norrisiarum	1047	Clymenella complanata
388	Crepidula naticarum	LZL	Clinocardium nuttallii
785	Crepidula dorsata	7341	Clavoporidae-Family
386	Crepidula adunca	2342	Clavopora occidentalis
385	Crepidula aculeata	1546	Clavodorum clavatum
949	Crencila decussata	1248	Clausidium vancouverense
697	Crassispira semiinflata	L4SI	Clausidiidae-Family
899	Crassedoma gigantea	LS	Cladocarpus sp A
2063	Crangonoidea-Superfamily	976	Cirrophorus furcatus
7007	Crangonidae-Family	\$76	Cirrophorus branchiatus
6907	Crangon nigromaculata	SSSI	Cirripedia-Class
8902	Crangon holmesi	1023	Cirriformia tentaculata
2002	Crangon handi	1022	Cirriformis spirabrancha
9907	Crangon alba	1021	Cirriformia luxuriosa
2065	Crangon alaskensis	1020	Cirratulus cirratus
091	Cotylea-Suborder	400I	Cirratuliformia-Suborder
156	Cossurida-Order	8001	Cirratulidae-Family
726	Cossuridae-Family	8691	Cirolanoidea-Superfamily
\$26	Cossura sp A		Cirolanidae-Family
\$£6	Cossura pygodactylata	1702	
££6		1703	Cirolana diminuta
121 127	Cossura candida	330	Circulus sp
	Corynactis californica	1148	Chrysopetaloidea-Superfamily
LΪ	Corymorphidae-Family	1146	Chrysopetalidae-Family
18	Corymorpha palma	2404	Chordata-Phylum
2006	musoibisni muidotoO	1420	Chone veleronis
2002	Corophium baconi	1422	Chone sp C
2004	Corophium acherusicum	1421	Chone sp B
9461	Corophioidea-Superfamily	1419	Chone mollis
2003	Corophiidae-Fanily	1418	Chone minuta
2411	Corellidae-Family	7141	Chone albocincta
208	Corbulidae-Family	1524	Chlocia pinnata
<b>₽08</b>	Corbula porcella	<i>L</i> 99	Chlamys hastata
803	Corbula luteola	1442	Chitinopoma groenlandica
L95	Corambidae-Family	1046	Chirimia biceps lacera
895	Corambe thompsoni	2302	Chiridotidae-Family
422	Coralliophilidae-Family	2303	qa alobinidO
156	Corallimorphidae-Family	₩£7	Chione undatella
125	Corallimorpharia-Order	EEL	Chione californiensis
SOLI	Corallanidae-Family	2236	Chilophiurina-Suborder
1243	Copepoda-Class	1961	Chevalia inaequalis
6†L	Cooperellidae-Family	2412	Chelyosoma productum
0SL	Cooperella subdiaphana	1469	Cheliceriformia-Subphylum
463	Conus californicus	7324	Cheilostomata-Order
2358	Conopeum commensale	L9EZ	Chapperiidae-Family
1981	Conopea galeata	2369	Chapperia patula
194	Conoidea-Superfamily	2368	Chapperia californica
794	Conidae-Family	<i>L</i> 69	Chamoidea-Superfamily
SEL	Compsomyax subdiaphana	869	Chamidae-Family
424	Columbellidae-Family	669	Chama arcana
1666	Сојишрвога сусјосоха	6101	Chaetozone "setosa"
524	Coloniales-Order	1018	Chactozone gracilis
898	Coleoidea-Subclass	<b>L101</b>	Chaetozone corona
2370	Coilostegoides-Superfamily	1016	Chaetozone armata
1890	Coboldus hedgpethi	1002	Chaetopterus variopedatus
12	Cnidaria-Phylum	1000	Chaetopteriformia-Suborder
742	Clytia universitatis	1001	Chaetopteridae-Family
2257	Clypeasteroida-Order	761	Chaetodermomorpha-Subclass
1020	Clymenura gracilis	997	Chaetodermatimorpha-Superorder
1046	Clymenopsis californiensis	<i>L</i> 97	Chaetodermatida-Order
1048	Clymenella sp A	788	Chaetodermatidae-Family

ZZZZ	Dougaloplus amphacanthus	698	Decabrachia-Superorder
165	Dotoidae-Family	1032	Dasybranchus glabrus
<b>76</b> 5	<b>Дого куа</b>	1783	Dactylopleustes sp A
£6\$	Doto columbiana		
265	Doto атуга		D
1312	Dorvilleidae-Family		
1316	Dorvillea sp		
SIST	Dorippidae-Family	1238	Cypridoidea-Superfamily
595	Doridoida-Suborder	OIST	Cypridinoidea-Superfamily
1034	Dodecaseta oraria	IISI	Cypridinidae-Family
1024	Dodecaceria concharum	1236	Cyprididae-Family
1823	zilimizzib szenimizziO	1240	Cyprideis stewarti
L\$6	Dispio uncinata	50Þ	Cypraeoidea-Superfamily
<b>₽7</b> £2	Discoporella umbellata	364	Cynoglossa-Suborder
1713	Discerceis granulosa	LOLI	Cymothoidae-Family
L65	Dironidae-Family	412	Cymatioidea-Superfamily
865	Dirona picta	1861	Cymadusa uncinata
L89	Diplodonta sericata	1220	Cylindroleberididae-Family
8\$	Diplocheilus allmani	256	Cylichnidae-Family
1563	Diopatra tridentata	<i>L</i> ZS	Cylichna diegensis
1562	Diopatra splendidissima	210	Cyclostremellidae-Family
1561	Diopatra ornata	212	Cyclostremella coronadoensis
2095	Diogenidae-Family	115	Cyclostremella californica
222	<b>Dichonemertes</b> hartmanae	2325	Cyclostomata-Order
1651	Diastylopsis tenuis	<i>7L</i> 9	Cyclopecten catalinensis
1650	Diastylis sp D	£L9	Cyclopecten benthalis
649I	A qe silytesiQ	969	Cyclocardia ventricosa
1648	Diastylis pellucida	\$69	Cyclocardia barbarensis
<b>∠</b> †91	Diastylis paraspinulosa	5191	Cyclaspis sp C
9791	Diastylis californica	<b>191</b>	Cyclaspis sp B
1644	Diastylidae-Family	£19I	Cyclaspis sp A
625	Diaphanoidea-Superfamily	191	Cyclaspis nubila
045	Diaphanidae-Family	6891	Суагћита типа
145	Diaphana californica	878	Cyathodonta pedroana
Z327	Diaperoeciidae-Family	L09	Cuthona divae
2328	Diaperoecia sp.	834	Cuspidarioidea-Superfamily
121	Diadumenidae-Family	832	Cuspidariidae-Family
122	Diadumene sp	840	Cuspidaria parapodema
1905	Dexaminoidea-Superfamily	ZLL	Cumingia californica
9061	Dexaminidae-Family	LE91	Cumella sp B
2016	Deutella californica	1636	Cumella sp A
823	Dentalium vallicolens	509	Cumanotus femaldi
825	Dentalium neohexagonum	<del>7</del> 09	Cumanotidae-Family
648	Dentaliida-Order	1910	Cumacea-Order
058	Dentaliidae-Family	Z587	Cucumariidae-Family
065	Dendronotus subramosus	2288	Cucumaria sp
685	Dendronotus iris	1293	Cubanomysis mysteriosa
888	Dendronotus frondosus	2336	Ctenostomata-Order
282	Dendronotoidea-Superfamily	86 <i>L</i>	Cryptomya californica
L8\$	Dendronotidae-Family	125	Cryptocelis occidentalis
<b>⊅</b> ∠ZZ	Dendrochirotida-Order	121	Cryptocelidae-Family
2259	Dendrasteridae-Family	1202	Crustacea-Subphylum
2260	Dendraster excentricus	76E	Crucibulum spinosum
L	Demospongiae-Class	plp	Crossata californica
1423	Demonax sp 1	2333	Crisiidae-Family
607	Delonovolva aequalis vidieri	7334	Crisia occidentalis
699	Delectopecten vancouverensis	393	Crepipatella charybdis
2128	Deilocerus planus	392	Crepidula perforans
2030	Decapoda-Order	361	Crepidula onyx
1033	Decamastus gracilis	390	Crepidula nummaria

COTT	ti da auggora	7027	Eualus lineatus
1183	Exogone sp A	1801	Eteone pigmentata
1181	Exogone molesta	1083	Eteone leptores
1180	Exogone lourei	7801	Eteone fauchaldi
1179	Exogone of verugera	1787	Errano lagunae Ereona feuchaldi
90/1	Excorallana truncata	2132	Erileptus spinosus
1294	Exacanthomysis davisi	1983	
049	Euvola diegensis	7861	Ericthonius brasiliensis Ericthonius rubricomis
1178	Eusyllis transecta	352	Epitonioidea-Superfamily  Fricthonius prasiliensis
LLII	Eusyllis habei	323	
6571	Eusirus longipes	Z383	Epistomiidae-Family Epitoniidae-Family
1758	Eusiroides monoculoides	789	
LSLI	Eusiridae-Family		Epilucina californica
1229	Eusarsiella thominx	1730	Epicaridea-Suborder
1230	Eusarsiella sp A	1247	Ephesiella brevicapitis
164	Euryleptidae-Family	1929	Eohaustorius washingtonianus
165	Eurylepta sp	718I	Eobrolgus spinosus
1704	Eurydice caudata	520	Entoprocta-Phylum
9441	Eurycyde spinosa	828	Entodesma pictum
2310	Eupyrigidae-Family	2406	Enteropneusta-Class
1384	Eupolymnia heterobranchia	S8L	Ensis myrae
61	Euphysa sp A	218	Enopla-Class
1526	Euphrosinidae-Family	879	Ennucula tenuis
1257	Euphrosine arctia	2102	Enallopaguropsis guatemoci
1216	Euphilomedes producta	981	Emprosthopharynx gracilis
SISI	Euphilomedes longiseta	221	Emplectonematidae-Family
12I¢	Euphilomedes carcharodonta	223	Emplectonems sp
1472	Eupantopodida-Suborder	2122	Emerita analoga
LIII	Eunoe of depressa	1940	Elasmopus mutatus
1529	Eunicoidea-Superfamily	1939	Elasmopus bampo
1258	Eunicida-Order	7294	Elasipodida-Order
1281	Eunicidae-Family	074	Elaeocyma empyrosia
1282	Еппісе втегісапа	66	Edwardsiidae-Family
1601	Eumida sp 2	201	Edwardsia sp G
1090	Eumida sp 1	101	A qs sistamed
1282	Eumalacostraca-Subclass	100	Edwardsia sipunculoides
362	Eulimoidea-Superfamily	1722	Edotia sublittoralis
998	Eulimidae-Family	1724	Edotia sp B
89E	Eulima californicus	EZLI	A qa sijob A
L9E	Eulima almo	7373	Есгоргоста-Рһујит
1086	Eulalia sp 4	5981	Eclysippe trilobata
8801	Eulalia quadrioculata	\$68	Echiuroinea-Order
1087	Eulalia levicornuta	168	Echiurida-Člass
1089	Eulalia californiensis	068	Есһішта-Рһуіпт
1082	Eulalia bilineata	2244	Echinozoa-Subphylum
2423	Eugyra arenosa californica	5542	Echinoidea-Class
1621	Eudorellopsis longirostris	2251	Echinoida-Order
1620	Eudorella pacifica	2181	Есһіпоdеттаға-Рһуlит
55	Endendrium sp	2247	Echinacea-Superorder
35	Eudendriidae-Family		
<b>≯</b> \$0₹	Euclymeninae sp A		E
1023	Euclymene grossa newporti		
1022	Euclymene delineata		
1501	Enclymene campanula	<del>1</del> 9	Dynamena sp
1428	Euchone velifera	1938	Dulichiella appendiculata
1429	Euchone sp A	1313	Drilonereis nuda
1427	Euchone limnicola	1312	Drilonereis mexicana
1456	Euchone incolor	1311	Drilonereis longa
1452	Euchone hancocki	1310	Drilonereis filum
1424	Euchone arenae	1306	Drilonereis falcata
5029	Eucarida-Superorder	2228	I qs suiqoleguo d

104	Halcampoididae-Family		
801	Halcampidae-Family	69L	Gari fucata
110	Halcampa decemtentaculata	89 <i>L</i>	Gari californica
2103	Haigia diegensis	t96I	Gammaropsis thompsoni
0010		1963	Gammaropsis ociosa
	H	7961	Gammaropsis martesia
	<b>K1</b> *	1961	Gammaropsis barnardi
		SSLI	Gammaridea-Suborder
4617	BOUUD 10 SURIO	TOL	Galeommatoidea-Superfamily
LSII	Сурція Билиса	707	Galeommatidae-Family
1510	Gymnonereis crosslandi	202	Galeommatidae genus A sp A
2335	Gymnolaemata-Class	5116	Galatheidae-Family
1908	Стедатеllа сћепиі Спетлеа reduncans	828	Gadilida-Order
Lt9	· · · · · · · · · · · · · · · · · · ·	\$98	Gadilidae-Family
<b>824</b>	Graptacme semipolita		
2160	Grapsidae-Family		e
2195	Granulosina-Suborder		3
425	seneral and an analysis.		
2000	Grandidierella Japonica	<b>ታ</b> ታታ	Fusinus luteopictus
17	Gorgoniidae-Family	£443	Enginus kobelti
69	Gorgonacea-Order	£77 1853	Foxiphalus similis
LLSI	Gonodactyloidea-Superfamily	1822	Foxiphalus obtusidens
69\$	Goniodorididae-Family	1821	Foxiphalus major
2196	Goniasteridae-Family		Foxiphalus golfensis
1226	Coniadidae-Family	1820 1870	Foxiphalus cognatus
1231	Goniada maculata	678	Fossaridae-Family
1230	Goniada littorea	00ZZ	Forcipulatida-Order
1229	Goniada brunnea	109	Flabellinidae-Family Foreigniletide Order
1228	Goniada annulata	£09	Flabellina trilineata
488	Golfingiidac-Family	Z09	Flabellina pricei
988	Golfingia margaritacea	209 SESI	Flabelligerida-Order
2256	Gnathostomata-Superorder	9EEI	Flabelligeridae-Family
2210	Gnathophiurina-Suborder	1336	Flabelligera infundibularis
1680	Gnathiidea-Suborder	\$69I	Flabellifera-Suborder
1891	Gnathiidae-Family	283	Fissurelloidea-Superfamily
1685	Onathia trilobata	784	Fissurellidae-Family
1684	anabhia tridena	190	
1683		++C	
1682	Gnathia sanctaecrucis	344	Finella sp
	Gnathia crenulatifrons	34	Filiformia-Suborder
9191	Gnathia crenulatifrons	3 <del>4</del>	Filifera-Suborder Filiformia-Suborder
9191 <i>L</i> ZZI	Glycinde armigera Glyphocuma sp A Gnathia crenulatitrons	57 57 81*EI	Fauveliopsis glabra Filifera-Suborder Filiformia-Suborder
9191 <i>L</i> ZZI SIZI	Glyceriformia-Suborder Glycinde armigera Glyphocuma sp A Gnathia crenulatifrons	74EI 22 74EI	Fauveliopsis armata Fauveliopsis glabra Filifera-Suborder Filiformia-Suborder
1919 1231 1319 1319	Glyceridae-Family Glyceriformia-Suborder Glycinde armigera Glyphocuma sp A Gnathia crenulatifrons	5451 2451 2451 2451 2451	Fauveliopsida-Order Fauveliopsis armata Fauveliopsis glabra Filifera-Suborder Filiformia-Suborder
9191 2221 9121 9121 9121	Glycera tesselata Glyceridae-Family Glyceriformia-Suborder Glycinde armigera Glyphocuma sp A Gnathia crenulatitrons	57 8761 2761 2961 9761	Fauveliopsidae-Family Fauveliopsis armata Fauveliopsis armata Filifera-Suborder Filiformia-Suborder
9191 2221 9121 9221 2221 2221	Glycera tenuis Glycera tesselata Glyceridae-Family Glyceriformia-Suborder Glycinde armigera Glyphocuma sp A Gnathia crenulatitrons	544 244 2451 2451 2451 244 244 244 244 244	Fasciolariidae-Family Fauveliopsidae-Family Fauveliopsis armata Fauveliopsis glabra Filifera-Suborder
9191 2771 9171 9171 2771 9771 9771	Glycera sp A  Glycera tesselata  Glyceridae-Family  Glyceriformia-Suborder  Glycinde armigera  Glyphocuma sp A  Glyphocuma sp A	826 244 2461 2461 2461 2461 2461 2461 246	Fartulum occidentale Fasciolariidae-Family Fauveliopsida-Order Fauveliopsis armata Fauveliopsis glabra Filifera-Suborder
6191 6221 6221 6221 6221 6221 6221 7221	Glycera robusta Glycera sp A Glycera tesselata Glycera tesselata Glyceridae-Family Glyceriformia-Suborder Glycinde armigera Glyphocuma sp A Glyphocuma sp A	072 8461 7461 2461 244 8461 244 8461 8461 8461 8461 8461 8461 8461 84	Falcidens sp B Fartulum occidentale Fasciolariidae-Family Fauveliopsida-Pamily Fauveliopsis armata Fauveliopsis glabra Frauveliopsis glabra Frauveliopsis glabra
9191 2221 9121 9221 7221 7221 1221 0221	Glycera oxycephala Glycera robusta Glycera sp A Glycera tesselata Glyceridae-Family Glyceriformia-Suborder Glycinde armigera Glycholae armigera Glycholae armigera Glycholae armigera	609 609	Facelinidae-Family Falcidens sp B Fartulum occidentale Fasciolariidae-Family Fauveliopsidae-Family Fauveliopsis armata Fauveliopsis glabra Fuveliopsis glabra Fuveliopsis glabra
9191 2221 9121 9221 7221 7221 7221 7221 7221 6121	Glycera nana Glycera oxycephala Glycera robusta Glycera sp A Glycera tesselata Glyceridae-Family Glyceriformia-Suborder Glycinde armigera Glychnde armigera Glychocuma sp A	009 0641 009 009 009 009 009	Fabrisabella sp A Facelinidae-Family Falcidens sp B Farulum occidentale Fasciolariidae-Family Fauveliopsidae-Family Fauveliopsis armata Fauveliopsis glabra Fuveliopsis glabra Fuveliopsis glabra Fuveliopsis glabra
9191 2221 9121 9221 9221 9221 9221 9321 9321 9321 9321	Glycera convoluta Glycera nana Glycera oxycephala Glycera robusta Glycera tesselata Glycera tesselata Glyceridae-Family Glyceriformia-Suborder Glycinde armigera Glychola sp A	0541 609 609 609 645 646 646 646 646 646 646 646 646 646	Fabia subquadrata Fabrisabella sp A Facelinidae-Family Farulum occidentale Farulum occidentale Fasciolariidae-Family Fauveliopsidae-Family Fauveliopsis armata Fauveliopsis glabra Fuilifera-Suborder
8121 6121 6121 6221 6221 6221 6221 6121 6121 6121 6121	Glycera americana Glycera convoluta Glycera oxycephala Glycera tobusta Glycera tesselata Glycera tesselata Glyceridae-Family Glyceriformia-Suborder Glycinde armigera Glychode armigera	009 0641 009 009 009 009 009	Fabrisabella sp A Facelinidae-Family Falcidens sp B Farulum occidentale Fasciolariidae-Family Fauveliopsidae-Family Fauveliopsis armata Fauveliopsis glabra Fuveliopsis glabra Fuveliopsis glabra Fuveliopsis glabra
2552 2562 2562 2561 2571 2571 2571 2571 2571 2571 2571 257	Glottidia albida Clycera americana Clycera nana Clycera nana Clycera oxycephala Clycera sp A Clycera tesselata Clycera tesselata Clyceridae-Family Clyceriformia-Suborder Clycende armigera Clycinde armigera Clycinde armigera	0541 609 609 609 645 646 646 646 646 646 646 646 646 646	Fabia concharum Fabia subquadrata Fabrisabella sp A Facelinidae-Family Farulum occidentale Fastulum occidentale Fastulom occidentale Fastolostidae-Family Fauveliopsidae-Family Fauveliopsia armata Fauveliopsis armata Fauveliopsis glabra Fauveliopsis armata
2557 2557 2551	Globivenus fordii Glotidia albida Glycera americana Glycera convoluta Glycera oxycephala Glycera tobusta Glycera tesselata Glycera tesselata Glyceridae-Family Glyceriformia-Suborder Glycinde armigera Glychode armigera Glychode armigera	0541 609 609 609 645 646 646 646 646 646 646 646 646 646	Fabia subquadrata Fabrisabella sp A Facelinidae-Family Farulum occidentale Farulum occidentale Fasciolariidae-Family Fauveliopsidae-Family Fauveliopsis armata Fauveliopsis glabra Fuilifera-Suborder
9641 9641 9641 9641 9641 9641 9641 9641	Gitana calitemplado Globivenus fordii Globivera americana Glycera americana Glycera nana Glycera robusta Glycera tobusta Glycera tesselata	0541 609 609 609 645 646 646 646 646 646 646 646 646 646	Fabia concharum Fabia subquadrata Fabrisabella sp A Facelinidae-Family Farulum occidentale Fastulum occidentale Fastulom occidentale Fastolostidae-Family Fauveliopsidae-Family Fauveliopsia armata Fauveliopsis armata Fauveliopsis glabra Fauveliopsis armata
661 661 661 661 661 662 662 662 663 663 663 663 663 663 663	Gibberosus myersi Gitana calitemplado Globivenus fordii Glycera americana Glycera nana Glycera robusta Glycera robusta Glycera tesselata Glycera tesselata Glycera tesselata Glycera tesselata Glycera tesselata Glycera son	2912 2912 2912 2913 2913 2913 2913 2913	Fabia concharum Fabia subquadrata Fabriasabella sp A Facelinidae-Family Farciolariidae-Family Fasciolariidae-Family Fauveliopsidae-Family Fauveliopsis armata Fauveliopsis armata Fauveliopsis armata
862 9671 9671 9671 9721 9	Gastropteron pacificum Gibberosus myersi Gibana calitemplado Globivenus fordii Glycera americana Glycera nana Glycera robusta Glycera robusta Glycera tesselata	8181 8181 8181 8480 9481 9481 9481 9481 9481 9481 9481	Eyakia robusta  Fabia concharum Fabia subquadrata Fabrisabella sp A Facelinidae-Family Facciolariidae-Family Fasciolariidae-Family Fauveliopsidae-Family Fauveliopsis ermata Fuveliopsis glabra Fauveliopsis glabra
862 7621 8621 8621 8621 8621 8621 8621 8621 8621 8621 8621 8621 8621 8621 8621 8631 8	Gastropteridae-Family Gastropteron pacificum Gitana calitemplado Gitana calitemplado Globivenus fordii Glycera americana Glycera convoluta Glycera nana Glycera robusta Glycera tesselata	8181 8181 8181 8461	Eyakia robusta Eyakia robusta Fyakia robusta Fabia subquadrata Fabriasabella sp A Facclinidae-Family Facclosridae-Family Facclosridae-Family Facclosridae-Family Fauveliopsidae-Family Frauveliopsidae-Family
082 082 082 082 082 082 082 082 082 082	Gastropoda-Class Gastropteridae-Family Gastropteron pacificum Gitana calitemplado Gibbivenus fordii Globivenus fordii Glycera americana Glycera convoluta Glycera nana Glycera robusta Glycera tesselata	8181 \$181	Exogonella brunnea Exosphaeroma rhomburum Eyakia robusta Fabia subquadrata Fabriasabella sp A Facelinidae-Family Facciolariidae-Family Facciolariidae-Family Farulum occidentale Farulum occidentale Farulum occidentale Farulum occidentale Farulum occidentale Farulum occidentale Farulum occidentale Farulum occidentale Farulum occidentale Farulum occidentale Farulum occidentale Farulum occidentale Farulum occidentale Farulum occidentale Farulum occidentale Farulum occidentale
82 982 982 982 982 982 982 982 9	Garveia formosa Gastropoda-Class Gastropteron pacificum Gastropteron pacificum Gitana calitemplado Gibbivenus fordii Globivenus fordii Glycera americana Glycera nana Glycera robusta Glycera tesselata	2811 2811 2811 2811 281 281 2912 2912 29	Exogone uniformis Exosphaeroma rhomburum Eyakia robusta Fabia subquadrata Fabriasabella sp A Facelinidae-Family Facelinidae-Family Facelopsidae-Family Faculopsidae-Family Fauveliopsidae-Family Fauveliopsia supara
082 082 082 082 082 082 082 082 082 082	Gastropoda-Class Gastropteridae-Family Gastropteron pacificum Gitana calitemplado Gibbivenus fordii Globivenus fordii Glycera americana Glycera convoluta Glycera nana Glycera robusta Glycera tesselata	8181 \$181	Exogonella brunnea Exosphaeroma rhomburum Eyakia robusta Fabia subquadrata Fabriasabella sp A Facelinidae-Family Facciolariidae-Family Facciolariidae-Family Farulum occidentale Farulum occidentale Farulum occidentale Farulum occidentale Farulum occidentale Farulum occidentale Farulum occidentale Farulum occidentale Farulum occidentale Farulum occidentale Farulum occidentale Farulum occidentale Farulum occidentale Farulum occidentale Farulum occidentale Farulum occidentale

1984	Ischyrocerus anguipes	866	Heterospionidae-Family
1980	lschyroceridae-Family	666	Heterospio catalinensis
912	lschnochitonidae-Family	6\$11	Heteropodarke heteromorpha
LLZ	lschnochiton sp	1827	Hererophoxus oculatus
112	Isanthidae-Family	961	Heteronemertea-Order
113	A qs sabidinasl	5651	Heteromysis odontops
L56I	Isaeidae-Fаmily	1036	Нетеготавтия filobranchus
LET.	Irusella lamellifera	1032	Heteromastus filiformis
1886	lphimediidae-Family	7 <i>L</i>	Heterogorgia tortuosa
293	lothia lindbergi	849	Heterodonta-Subclass
LGSI	Inusitatomysis californica	2145	Heterocrypta occidentalis
875	Incirrata-Suborder	1127	Hesperonoe laevis
2318	Inarticulata-Class	1092	Hesionura coineaui difficilis
1748	ІІуагасһпа асагіпа	SSII	Hesionidae-Family
1771	Idoteidae-Family	1128	Hesionella mecullochae
1726	Idotea resecata	019	Hermissenda crassicornis
1725	Idotea montereyensis	855	Негтаеідае-ҒатіІу
6171	Idarcturus allelomorphus	2022	Heptacarpus stimpsoni
		2024	Heptacarpus pictus
	I	2023	Heptaearpus palpator
		8721	Hemisquillidae-Family
		6251	Hemisquilla ensigera californiensis
13	Hydrozoa-Class	2013	A qs otorqiməH
Stol	Hydroides pacificus	1225	Hemipodus borealis
Iddd	Hydroides gracilis	1640	Hemilamprops californica
35	Hydractiniidae-Family	2912	Hemigrapsus oregonensis
36	Hydractinia sp	1917	Hemigrapsus nudus
1443	Flyalopomatus biformis	6751	Hemicyclops thysanotus
1564	Hyalinoecia juvenalis	2405	Hemichordata-Subphylum
808I	Hyalidae-Family	2263	Hemiasterina-Suborder
6081	Hyale sp	84	Hebellopsis expansa
623	Huxleyia munita	Lt	Hebellidae-Family
1461	Hornellia occidentalis	1822	Havelockia benti var. zacae
146	A qe enelgolgoH	2280	Havelockia benti
515	Hoplonemertea-Order	1928	Haustoriidae-Family
248	Hoplonemertes sp B	1856	Harpiniopsis galeta
747	A qz səriəmənolqoH	1852	Harpiniopsis fulgens
SLSI	Hoplocarida-Subclass	1824	Harpiniopsis epistomata
2273	Holothuroidea-Class	1244	Harpacticoida-Order
1128	Figen spidelolol-l	1156	Harmothoe sp B
9651	Holmcsimysis costata	1152	A qs sodiomisH
0۷	Holaxonia-Suborder	1124	Harmothoe scriptoria
LSPI	Hirudinea-Class	1123	Harmothoe nigralba
2391	Hippothoidae-Family	1122	Harmothoe hirauta
378	Hipponix antiquatus	1121	ailigeri sodiomasH
975	Hipponicoidea-Superfamily	LISI	Harbansus bradmyersi
LLE	Hipponicidae-Family	1187	Haplosyllis spongicola
7281	Hippomedon zetesimus	LDS	Haminaea virescens
1826	Hippomedon tenax	945	Haminaea vesicula
1822	Hippomedon subrobustus	1200	Hamatoscalpellum californicum
1858	Hippomedon sp A	1120	Halosydna latior
1824	Hippomedon columbianus	6111	inosnuoj subspirationi
1502	Hippolytidae-Family	1118	Halosydna brevisetosa
2027	Hippolyte clarki	847	Halodakra salmonea
502	Hippolyte californiensis	2421	Halocynthia igaboja
2022	Hippidae-Family	901	Haloclavidae-Family
2362	Hincksinidae-Family	300	Halistylus pupoides
908 208	Anatemater anny Histelloides-Superfamily	1690	Haliophasma geminatum
	Histellidae-Family	1893	Halicoides synopiae
<b>L08</b>	Hiatella arctica	111	A qa allanthella b

IILI	Limnoria sp	1389	Laphania sp
1464	Limnodriloides monothecus	676	Laonice cirrata
1463	Limnodriloides barnardi	876	Laonice appelloefi
511	Limnactiniidae-Family	9807	Laomediidae-Family
911	Limnactiniidae sp A	1388	Lanice conchilega
797	Limifossorimorpha-Superorder	1386	Lanassa venusta venusta
263	Limifossorida-Order	1381	G qz szsans.J
797	Limifossoridae-Family	1382	Lanassa gracilis
597	Limifossor fratula	7 <del>7</del> 91	Lamprops quadriplicata
659	Limidae-Family	1491	Lamprops carinata
199	Limatula subauriculata	6E91	Lampropidae-Family
099	Limaria hemphilli	402	Lamellaroidea-Superfamily
7897	Liljeborgioidea-Superfamily	403	Lamellariidae-Family
1898	Liljeborgiidae-Family	<b>†0</b> †	Lamellaria diegoensis
676	Levinsenia oculata	1159	Lagisca extenuata
876	Levinsenia multibranchiata	528	Laevidentaliidae-Family
L76	Levinsenia gracilis	87 <i>L</i>	Laevicardium substriatum
1225	Leuroleberis sharpei	2295	Laetmogonidae-Family
1871	Leucothoidea-Superfamily	2207	Laemophiurina-Suborder
L6LT	Leucothoidae-Family	313	Lacunidae-Family
86/I	Leucothoe spinicarpa	314	Lacuna unifasciata
2131	Leucosiidae-Family		
6191	Leuconidae-Family		Γ
1622	Leucon subnasica		
1623	Leucon sp A		
9	Leucilla nuttingi	bLb	Kylix halocydne
2301	Leptosynapta sp A Leptosynapta sp B	ELV	Kurtziella plumbea
2300		ZLÞ	Kurtziella beta
1652	Leptostylis sp E Leptostylis villosa	T.L.tr	Kurtzia arteaga
1654	A qs silytsotga I	<b>₽0</b> ∠	Kelliidae-Family
1653	Leptostraca-Order	SOL -	Kellia suborbicularis
1272 144	Leptoplanoidea-Superfamily	554	Kelletia kelletti
StI	Leptoplanidae-Family I eptoplanidae-Superfamily	134	Kaburakia excelsa
74I	Leptoplanidae sp A		
119	Leptopecten latiauratus		Ж
36	Leptomedusae-Order		
7991	Leptognathiidae-Family		
9991	Leptognathia sp E	1742	Joeropsis dubia
L191	Leptocuma forsmani	1741	Joeropsis concava
S72	Leptochiton rugatus	0 <del>5</del> /1	Joeropsididae-Family
0991	Leptochelia dubia	6861	Jassa slatteryi
95 <i>L</i>	Leporimetis obesa	1641	8 gs srienimsst
612	Lepidozona sinudentata	SELI	Janiroidea-Superfamily
872	Lepidozona retiporosa	1736	Janiridae-Family
774	Lepidopleuridae-Family	1739	Janiralata solasteri
5152	Lepidopa californica	1738	Janiralata occidentalis
273	Lepidochitonina-Suborder		
1981	A qe muərəəqəbiqə.I		ſ
1860	Lepidepecreum gurjanovae		
1826	Lepidepecreum garthi		11
1130	Lepidasthenia longicirrata	1473	Iuventivellendoidea-Superfamily
1131	Lepidasthenia berkeleyae	6L9I	Isopoda-Order
767	Lepetidae-Family	1022	Isocirrus longiceps
LSSI	Lepadomorpha-Suborder	5096	Isocheles pilosus
<b>706</b>	Leitoscoloplos pugettensis	984	Iselica ovoidea
£06	Leitoscoloplos panamensis	886I	S qs sursocitives Ischyrocerus
132	Latocestidae-Family	788T	Ischyrocerus sp B
807	Lasaeidae-Family	9861	rschyrocerus pelagops
604	inosnaba asasad	<b>5861</b>	Ischyrocerus litotes

1433	Megalomma pigmentum	1796	Lumbrineris japonica
69 <b>S</b> I	Megabalanus califormicus	1795	Lumbrineris inflata
1036	Mediomastus californiensis	1294	Lumbrineris index
1038	Mediomastus ambiseta	1293	Lumbrineris erecta
1037	Mediomastus acutus	1592	Lumbrineris cruzensis
2197	Mediaster aequalis	1531	Lumbrineris californiensis
2017	Mayerella banksia	1290	Lumbrineris bicirrata
1285	A qe seydqisM	1789	Lumbrineris bassi
1284	Marphysa disjuncta	1288	Lumbrinerides platypygos
1283	Marphysa conferta	1586	Lumbrineridae-Family
154	Marginellidae-Family	2186	Luidiidae-Family
5475	snogexah silagnaM	2189	Luidia foliolata
1828	isəlig suxodqoludibnsM	2188	Luidia asthenosoma
1435	Manayunkia sp	7812	Luidia armata
1045	viims4-əsbinsblsM	<b>789</b>	Lucinoma annulatum
9501	Maldane sarsi	089	Lucinoidea-Superfamily
1210	Malacostraca-Class	289	Lucinisca nuttalli
2356	Malacostegoidea-Superfamily	189	Lucinidae-Family
0\$6	Malacoceros punctata	727	Loxosomatidae-Family
2134	Majidae-Family	ZI37	Loxorhynchus grandis
\$86	Magelonidae-Family	2136	Loxorhynchus crispatus
766	A qa snolegaM	7271	Loveniidae-Family
166	Magelona sacculata	2272	Lovenia cordiformis
066	isįoin snolegsM	67	Lovenellidae-Family
686	Magelona pitelkai	īs	Lovenella nodosa
886	sirriosignol snolegeM	790	Lottiidae-Family
<b>L86</b>	Укаделопа рацимения	791	Lottia strigatella
986	Мадеюла ьегкелеуі	5129	Pophopanopeus leucomanus
1943	Maera vigota	2158	Lophopanopeus frontalis
1942	Alimis stabeM	ZIZ	Lophopanopeus bellus
L8L	Mactroidea-Superfamily	1390	Loimia medusa
88 <i>L</i>	Mactridae-Family	1708	Livoneca vulgaris
06L	Mactra dolabriformis	312	Littorinoidea-Superfamily
68L	Mactra californica	311	Littorinina-Suborder
380	Macromphalina californica	9₽€	Litiopidae-Family
1242	Macrocyprina pacifica	849	Lithophaga plumula
1541	Macrocyprididae-Family	868	Listriolobus pelodes
09L	Масота yoldiformis	1904	A qa silərinisi.
65L	Масота паѕита	1903	Listriella melanica
827	Macona indentata	1902	Listriella goleta
LSL	Macoma carlottensis	1061	Listriella eriopisa
		1900	Listriella diffusa
	M	1899	Listriella albina
		302	Lirularia parcipicta
	20	301	Lirularia acuticostata
2250	Lytechinus pictus	342	Lirobittium subplanatum
L9EI	Lysippe ap B	321	Lirobarleeia kelseyi
1366	A qa əqqiay.İ	2320	Linguloidea-Superfamily
1846	Lysianassoidea-Superfamily	2319	Lingulida-Order
7 <del>4</del> 81	Lysianassidae-Family	2321	Lingulidae-Family
822	Lyonsiidae-Family	208	Lineus sp A
854	Lyonsia californica	<b>L0Z</b>	Lineus rubescens
2373	Lunulariidae-Family	907	Lineus ruber
1301	Lumbrineris "tetraura"	202	Lineus flavescens
1302	Lumbrineris zonata	204	Lineus bilineatus
1303	Lumbrineris sp B	<i>L</i> 61	Lincidae-Family
1300	Lumbrineris pallida	203	Lineidae sp A
1299	Lumbrineris minima	8\$9	Limoidea-Superfamily
1298	Lumbrineris limicola	LS9	Limoida-Order
1297	Lumbrineris latreilli	0171	Limnoriidae-Family

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684	Odostomia clementina	1124	Nereidiformia-Suborder
887	Odostomia canfieldi	1208	Nereididae-Family
L8Þ	Odostomia astricta	1244	Mephtys signifera
1186	A qe sillyeotnobO	1543	Nephtys punctata
1188	Odontosyllis phosphorea	1242	Mephtys parva
<i>LL</i> 8	Octopus rubescens	1521	Mephtys ferruginea
948	Octopodidae-Family	1240	Иерћ у соглита Гтапсі в Стапа
<i>₽</i> ∠8	Octopoda-Order	1239	Иерћуу соглита соглита
£78	Octobrachia-Superorder	1238	Mephtys californiensis
420	Ocenebra foveolata	1237	Mephtys caecoides
614	Осеперта рега	1236	Mephtys assignis
<b>5</b> 7	Obelia sp A	1533	Nephtyidae-Family
643	Obelia geniculata	L88	Nephasoma diaphanes
CV		060Z	Meotrypaea californiensis
		5002	Исотураса biffari
	0		Neomysis rayi
		1605	Meomysis kadiakensis
	•	<b>₹09</b> T	Neoloricata-Order
86	Nynantheae-Suborder	272	
1484	Nymphonoides-Superfamily	1392	Neolepres spiralis
1482	Nymphonidae-Family	1361	Neolepres japonica
I487	Nymphon pixellae	514	Neogastropoda-Order
987I	Nymphon heterodenticulatum	2074	Neocrangon zacae
OLL	iillettun eillettun	2073	Neocrangon resima
<b>195</b>	Nudibranchia-Order	2072	Neocrangon communis
625	Nuculoidea-Superfamily	42 <i>L</i>	Nemocardium centifilosum
\$29	Nuculoida-Order	178	Nemertea-Phylum
979	Muculidae-Family	249	Nemertes sp A
679	Nuculanoidea-Superfamily	<b>768</b>	Nellobia eusoma
930	Nuculanidae-Family	ELSI	Mebaliidae-Family
559	Nuculana taphria	<i>bls</i> ī	Mebalia pugettensis
PE9	Muculana penderi	1720	Meastacilla californica
653	Muculana hamata	720	Иеаготуя stearnsii
269	Nuculana elenensis	617	<b>Иезето</b> туз сотргеssa
189	Muculana conceptionis	Z087	Naushonia macginitiei
129	Nucinelloidea-Superfamily	368	Naticoidea-Superfamily
779	Nucinellidae-Family	96€	Vaticidae-Family
6501	Notoproctus pacificus	[tt	Nassarius perpinguis
123	Notoplanidae-Family	077	Nassarius mendicus
123 124	Notoplana sp	439	Nassarius insculptus
	Notomastus tenuis	438	Vassarius fossatus
1041		LEÞ	Nassarius delosi
1040	Notomastus magnus	432	Nassarina penicillata
LLS	Notodorididae-Family	927	Nassariidae-Family
1314	Notocirrus californiensis	1624	Vannastacidae-Family
1270	Nothria occidentalis	506	Naineris uncinata
095	Notaspidea-Order	300	0,00,000
1232	not recognized-suborder		), T
303	isimon sisimoM		N
2349	Volella sp		
326	Nitidiscala tincta		
358	Vitidiscala sawinae	1432	Myxicola infundibulum
LSE	Nitidiscala indianorum	\$\$9	Mytilus galloprovincialis
958	Nitidiscala hindsii	<b>759</b>	Mytilus californianus
1304	A qs soniM	249	Mytiloidea-Superfamily
1028	Vicomache sp	119	Mytiloida-Order
1894	Micippe tumida	543	Mytilidae-Family
868	Meverita reclusiana	1093	Mystides sp
60LI	Merocila acuminata	1603	Mysidopsis onofrensis
1212	Nereis procera	2091	iiini aiaqobiayM
1211	Mereis latescens	1091	Mysidopsis cathengelae
1004	Vereiphylla castanea	1000	Mysidopsis brattegardi

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1120	Paleanotus bellis	2242	Ophiura leptoctenia
183	Palaeonemertea-Order	5775	Ophiotricidae-Family
561	Palaeonemertea sp B	2230	Ophiothrix spiculata
<b>76</b> I	Palaconemertea sp A	2232	Ophiopsila californica
9/02	Palaemonoidea-Superfamily	2213	Ophiopholis bakeri
<i>LL0</i> Z	Palaemonidae-Family	2233	Ophionereis eurybrachiplax
2109	Pagurus spilocarpus	2234	Ophionereis annulata
2108	Pagurus samuelis	2233	Ophionereidae-Family
2107	Pagurus redondoensis		Ophiomusium jolliensis
2012	Pagurus granosmanus	2241	
2105	Pagurus armatus	7911	Ophiodromus pugettensis
2100	Paguristes ulreyi	481	Ophiodermella inermis
5005	Paguristes turgidus	084	Ophiodermella halcyonis
860Z	Paguristes parvus	647	Ophiodermella cancellata
2002	Paguristes bakeri	72237	Ophiodermatidae-Family
	Paguridae-Family Pagurister bakeri	2240	Ophiocten sp
2101	Pacitacanthomysis nephrophthalma	2231	Ophiocomidae-Family
9091		2212	Ophiactis sp
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