A numerical summation of the columns of the above table gives the following:

	Whole number of species.	Straits of Flor- ida, &c.	Southern New England, 1- 30 fathoms.	Northern New England, &c.	Greenland.	Northern Eu- rope, &c.	Mediterranean.
Brachyura	9	4	2	3	1	1	.....
Anomura	10	1?	1	3	1	2	2
Macrura	13	.....	1	3	1	3	.....
Schizopoda	4	.....	.....	2	2	3	.....
Cumacea	1	.....	1	1	.....	.....	.....
Stomatopoda	1	.....	.....	.....	.....	.....	.....
Amphipoda	7	.....	3	6	2	5	1?
Isopoda	5	.....	.....	5	1	1	.....
Total	50	5	8	23	8	15	3

In addition to the above facts in regard to the distribution of the species, it should be added that two of the species, *Lyreidus Bairdii* and *Nephropsis aculeata*, belong to genera heretofore known only from the Pacific region, and each represented there by a single species only; while a third species, *Lysiosquilla armata*, has its nearest known ally in a species known only from the same region.

Of the fifty species enumerated, fourteen are described as new and three others are indicated as probably new; forty-three are here first recorded as belonging to the New England fauna south of Cape Cod; twenty-eight are new to the whole fauna from Cape Hatteras to Northern Labrador; and twenty-one are new to America, including Greenland. Of the forty-three species new to the Southern New England fauna, fifteen are now known also from the New England fauna north of Cape Cod; and of the remaining twenty-eight, four were already known from the Straits of Florida, three from Greenland and Northern Europe, and two from the Mediterranean.

NEW HAVEN, CONN., November 12, 1880.

LIST OF THE FISHES OF THE PACIFIC COAST OF THE UNITED STATES, WITH A TABLE SHOWING THE DISTRIBUTION OF THE SPECIES.

By DAVID S. JORDAN and CHARLES H. GILBERT.

The writers have been engaged during most of the present year (1880) in making investigations of the fish and fisheries of the Pacific coast of the United States, in the interest of the United States Fish Commission and the United States Census Bureau. Extensive collections have been made at each of the principal fishing ports from New Westminster to San Diego.

In the present paper a catalogue is given of the species now known to inhabit the Pacific Ocean between the mouth of Fraser's River on the north and San Diego on the south. The names of the species not

seen by the writers are placed in italics. A vertical column is given for each of the principal localities, and a cross in any column opposite the name of a species indicates that we have obtained or examined, while in the field, specimens from the locality in question. In the last column, S. indicates a general southern distribution, most usually from Point Concepcion or Monterey to Magdalena Bay or Cape San Lucas; N. indicates a general northern distribution, usually from Monterey or Cape Mendocino to Sitka, or beyond; C. indicates the distinctively Californian fauna, the abundance being usually greatest about Monterey and San Francisco. This fauna is chiefly composed of the two viviparous families *Scorpenidae* and *Embiotocidae*.

It will be noticed that the number of species obtained in Monterey Bay and about San Francisco is considerably greater than at any other points. This is partly due to the fact that these regions have more extensive fisheries than others. There is no doubt, however, that more species of fishes really occur from Monterey to Point Reyes than elsewhere on the coast. Monterey Bay is the common meeting ground of the semi-tropical and semi-arctic fish faunæ. There is nowhere an abrupt change along the coast. The three capes, Flattery, Mendocino, and Point Concepcion, are to some extent points of division.

Name.	Puget Sound.	Columbia River.	San Francisco.	Monterey Bay.	San Luis Obispo.	Santa Barbara.	San Pedro.	San Diego.	Greatest abundance.
1. <i>Mola rotunda</i> Cuvier				+		+	+		S.
2. <i>Diodon maculatus</i> Lac								+	S.
3. <i>Tetrodon politus</i> Ayres								+	S.
4. <i>Hippocampus ingens</i> Grd								+	S.
5. <i>Siphostoma punctipinne</i> (Gill) J. & G									S.
6. <i>Siphostoma leptorhynchus</i> * (Grd.) Gill								+	S.
7. <i>Siphostoma dimidiatum</i> Gill						+		+	S.
8. <i>Siphostoma californiense</i> † (Storer) Gill	+		+	+	+	+			C.
9. <i>Aulorhynchus flavidus</i> Gill	+			+					N.
10. <i>Gasterosteus (aculeatus) serratus</i> Ayres	+		+						N.
11. <i>Gasterosteus microcephalus</i> Grd	+		+	+			+		C.
12. <i>Aphoristia atricauda</i> J. & G								+	S.
13. <i>Pleuronichthys verticalis</i> J. & G			+	+					C.
14. <i>Pleuronichthys decurrens</i> ‡ J. & G			+	+					C.
15. <i>Pleuronichthys cænopus</i> Grd	+		+	+	+	+	+	+	N.
16. <i>Hypsopsetta guttulata</i> (Grd.) Gill			+		+	+	+	+	S.
17. <i>Cynicoglossus pacificus</i> Lock	+		+	+					N.
18. <i>Glyptocephalus zachirus</i> Lock			+	+					C.
19. <i>Pleuronectes stellatus</i> Pallas	+	+	+	+	+				N.
20. <i>Lepidopsetta bilineata</i> § (Ayres) Gill	+		+	+					N.
21. <i>Parophrys ischyryus</i> J. & G	+								N.
22. <i>Parophrys isolepis</i> (Lock.) J. & G	+		+						N.
23. <i>Parophrys vetulus</i> Grd	+		+	+		+			N.
24. <i>Citharichthys sordidus</i> (Grd.) Gthr	+		+	+	+	+	+	+	N.
25. <i>Psettichthys melanostictus</i> Grd	+		+	+					C.

**Syngnathus arundinaceus* Grd.

†*Syngnathus griseolineatus* Ayres.

‡*Nom. sp. nov.* = *Pleuronichthys quadrituberculatus* J. & G. Proc. U. S. Nat. Mus. 1880, iii, 50 non *Pleuronectes quadrituberculatus* Pallas.

§*Pleuronectes perarcuatus* Cope.

Name.	Puget Sound.	Columbia River.	San Francisco.	Monterey Bay.	San Luis Obispo.	Santa Barbara.	San Pedro.	San Diego.	Greatest abundance.
26. <i>Hippoglossoides exilis</i> J. & G.	+	+	+	+	+	+	+	+	C.
27. <i>Hippoglossoides elassodon</i> J. & G.	+	+	+	+	+	+	+	+	N.
28. <i>Hippoglossoides jordani</i> Lock	+	+	+	+	+	+	+	+	C.
29. <i>Paralichthys maculosus</i> Grd.	+	+	+	+	+	+	+	+	S.
30. <i>Xystreurus liolepis</i> J. & G.	+	+	+	+	+	+	+	+	S.
31. <i>Hippoglossus vulgaris</i> Flem.	+	+	+	+	+	+	+	+	N.
32. <i>Atheresthes stomias</i> J. & G.	+	+	+	+	+	+	+	+	N.
33. <i>Merlucius productus</i> (Ayres) Gill	+	+	+	+	+	+	+	+	N.
34. <i>Pollachius chalcogrammus</i> * (Pallas) J. & G.	+	+	+	+	+	+	+	+	N.
35. <i>Gadus morrhuat</i> L.	+	+	+	+	+	+	+	+	N.
36. <i>Microgadus proximus</i> (Grd.) Gill	+	+	+	+	+	+	+	+	N.
37. <i>Brosomphycis marginatus</i> (Ayres) Gill	+	+	+	+	+	+	+	+	C.
38. <i>Ophidium taylori</i> Grd.	+	+	+	+	+	+	+	+	C.
39. <i>Scytalina cerdale</i> J. & G.	+	+	+	+	+	+	+	+	N.
40. <i>Lycodopsis paucidens</i> (Lock.) Gill	+	+	+	+	+	+	+	+	C.
41. <i>Lycodopsis pacificus</i> Collett	+	+	+	+	+	+	+	+	N.
42. <i>Anarrhichthys ocellatus</i> Ayres	+	+	+	+	+	+	+	+	N.
43. <i>Lumpenus anguillaris</i> (Pallas) Gill	+	+	+	+	+	+	+	+	N.
44. <i>Xiphister rupestris</i> J. & G.	+	+	+	+	+	+	+	+	N.
45. <i>Xiphister mucosus</i> † (Grd.) Jor.	+	+	+	+	+	+	+	+	N.
46. <i>Xiphister chirus</i> J. & G.	+	+	+	+	+	+	+	+	N.
47. <i>Cebedichthys violaceus</i> Grd.	+	+	+	+	+	+	+	+	C.
48. <i>Anoplarchus alectrolophus</i> ‡ (Pallas) J. & G.	+	+	+	+	+	+	+	+	N.
49. <i>Apodichthys flavidus</i> Grd.	+	+	+	+	+	+	+	+	N.
50. <i>Apodichthys fucorum</i> J. & G.	+	+	+	+	+	+	+	+	C.
51. <i>Muraenoides ornatus</i> (Grd.) Gill	+	+	+	+	+	+	+	+	N.
52. <i>Muraenoides lætus</i> (Cope) Gill	+	+	+	+	+	+	+	+	N.
53. <i>Cremnobates integripinnis</i> Rosa Smith	+	+	+	+	+	+	+	+	S.
54. <i>Gibbonsia elegans</i> Cooper	+	+	+	+	+	+	+	+	S.
55. <i>Heterostichus rostratus</i> Grd.	+	+	+	+	+	+	+	+	S.
56. <i>Neoclinus blanchardi</i> Grd.	+	+	+	+	+	+	+	+	S.
57. <i>Neoclinus satiricus</i> Grd.	+	+	+	+	+	+	+	+	S.
58. <i>Hypoleurochilus gentilis</i> (Grd.) Gill	+	+	+	+	+	+	+	+	S.
59. <i>Porichthys porosissimus</i> (Cuv. & Val.) Gthr.	+	+	+	+	+	+	+	+	C.
60. <i>Gobiesox reticulatus</i> Grd.	+	+	+	+	+	+	+	+	N.
61. <i>Eumicrotremus orbis</i> (Gthr.) Gill	+	+	+	+	+	+	+	+	N.
62. <i>Neoliparis mucosus</i> (Ayres) Steind.	+	+	+	+	+	+	+	+	N.
63. <i>Liparis cyclopus</i> Gthr.	+	+	+	+	+	+	+	+	N.
64. <i>Liparis pulchellus</i> Ayres	+	+	+	+	+	+	+	+	N.
65. <i>Aspidophoroides inermis</i> Gthr.	+	+	+	+	+	+	+	+	N.
66. <i>Brachyopsis verrucosus</i> Lock	+	+	+	+	+	+	+	+	C.
67. <i>Brachyopsis xyosternus</i> J. & G.	+	+	+	+	+	+	+	+	C.
68. <i>Podothecus acipenserinus</i> (Pallas) Gill.	+	+	+	+	+	+	+	+	N.
69. <i>Podothecus vulsus</i> J. & G.	+	+	+	+	+	+	+	+	C.
70. <i>Podothecus trispinosus</i> (Lock.) J. & G.	+	+	+	+	+	+	+	+	C.
71. <i>Bothragonus swani</i> (Steind.) Gill	+	+	+	+	+	+	+	+	N.
72. <i>Prionotus stephanophrys</i> Lock	+	+	+	+	+	+	+	+	S.
73. <i>Ascelichthys rhodorus</i> J. & G.	+	+	+	+	+	+	+	+	N.
74. <i>Psychrolutes paradoxus</i> Gthr.	+	+	+	+	+	+	+	+	N.
75. <i>Cottus polyacanthocephalus</i> Pallas	+	+	+	+	+	+	+	+	N.
76. <i>Artedius lateralis</i> Grd.	+	+	+	+	+	+	+	+	N.
77. <i>Artedius notospilotus</i> Grd.	+	+	+	+	+	+	+	+	C.
78. <i>Artedius quadriseriatus</i> Lock	+	+	+	+	+	+	+	+	C.
79. <i>Artedius pugettensis</i> Steind.	+	+	+	+	+	+	+	+	C.
80. <i>Hemilepidotus spinosus</i> Ayres	+	+	+	+	+	+	+	+	C.
81. <i>Hemilepidotus gibbsi</i> Gill	+	+	+	+	+	+	+	+	N.
82. <i>Aspicottus bison</i> Grd.	+	+	+	+	+	+	+	+	N.
83. <i>Scorpenichthys marmoratus</i> Grd.	+	+	+	+	+	+	+	+	C.

* *Gadus periscopus* Cope.† *Gadus auratus* Cope; *Gadus morrhuat* L. (fide Bean.) = *G. macrocephalus* Tiles.‡ *Xiphidium cruoreum* Cope.§ *Opidium atropurpureum* Kittlitz = *Anoplarchus crista-galli* Gthr.

Name.	Puget Sound.	Columbia River.	San Francisco.	Monterey Bay.	San Luis Obispo.	Santa Barbara.	San Pedro.	San Diego.	Greatest abundance.
84. <i>Leptocottus armatus</i> Grd.	+		+	+	+	+	+	+	C.
85. <i>Liocottus hirundo</i> Girard						+			S.
86. <i>Oligocottus globiceps</i> Grd.	+		+	+					N.
87. <i>Oligocottus maculosus</i> Grd.	+		+		+				N.
88. <i>Oligocottus analis</i> Grd.				+			+	+	S.
89. <i>Blepsias cirrhosus</i> (Pallas) Gthr.	+		+						N.
90. <i>Nautichthys oculofasciatus</i> Grd.	+		+						N.
91. <i>Scorpaena guttata</i> Grd.						+	+	+	S.
92. <i>Sebastichthys nigrocinctus</i> (Ayres) Gill.	+		+	+					N.
93. <i>Sebastichthys serriiceps</i> J. & G.			+	+		+	+	+	S.
94. <i>Sebastichthys nebulosus</i> (Ayres) Gill.	+		+	+					N.
95. <i>Sebastichthys chrysomelas</i> J. & G.			+	+		+	+		C.
96. <i>Sebastichthys carnatus</i> J. & G.			+	+	+	+	+		C.
97. <i>Sebastichthys maliger</i> J. & G.	+		+	+					N.
98. <i>Sebastichthys caurinus</i> (Rich.) J. & G.	+		+	+					N.
var. <i>vexillaris</i> J. & G.			+	+		+	+	+	C.
99. <i>Sebastichthys rastrelliger</i> J. & G.			+	+	+	+	+		S.
100. <i>Sebastichthys auriculatus</i> (Grd.) Gill.	+		+	+	+	+			C.
101. <i>Sebastichthys rubrivinctus</i> J. & G.			+	+		+			S.
102. <i>Sebastichthys chlorostictus</i> J. & G.			+	+					C.
103. <i>Sebastichthys rhodochloris</i> J. & G.			+	+					C.
104. <i>Sebastichthys rosaceus</i> (Grd.) Lock.			+	+		+			C.
105. <i>Sebastichthys constellatus</i> J. & G.			+	+		+			C.
106. <i>Sebastichthys ruber</i> (Ayres) Lock.	+		+	+		+			N.
107. <i>Sebastichthys miniatus</i> J. & G.			+	+		+	+		C.
108. <i>Sebastichthys pinniger</i> (Gill) Lock.	+		+	+					N.
109. <i>Sebastichthys atrovirens</i> J. & G.			+	+	+	+	+	+	S.
110. <i>Sebastichthys elongatus</i> (Ayres) Gill.			+	+					C.
111. <i>Sebastichthys proiger</i> J. & G.			+	+					C.
112. <i>Sebastichthys ovalis</i> (Ayres) Lock.				+		+			C.
113. <i>Sebastichthys entomelas</i> J. & G.			+	+					C.
114. <i>Sebastichthys mystinus</i> * J. & G.	+		+	+		+	+	+	C.
115. <i>Sebastichthys melanops</i> (Grd.) J. & G.	+		+	+					N.
116. <i>Sebastichthys flavidus</i> (Ayres) Lock.			+	+		+	+	+	C.
117. <i>Sebastes paucispinis</i> (Ayres) Gill.			+	+	+	+	+		C.
118. <i>Hexagrammus asper</i> † Steller.	+								N.
119. <i>Hexagrammus superciliosus</i> § (Pallas) J. & G.	+		+	+					N.
120. <i>Hexagrammus decagrammus</i>|| (Pallas) J. & G.	+		+	+	+				N.
121. <i>Hexagrammus nebulosus</i> (Grd.) J. & G.			+	+					N.
122. <i>Ophiodon elongatus</i> Grd.	+		+	+	+	+			N.
123. <i>Zaniolepis latipinnis</i> Grd.			+						N.
124. <i>Oxylebius pictus</i> Gill.	+		+	+					N.
125. <i>Myrioilepis zonifer</i> Lock.			+	+					C.
126. <i>Anoplopoma fimbria</i> (Pallas) Gill.	+		+	+					N.
127. <i>Gobius glaucofrænum</i> (Gill) J. & G.									N.
128. <i>Lepidogobius gracilis</i> (Grd.) Gill.	+		+						C.
129. <i>Lepidogobius newberryi</i> (Grd.) Gill.									C.
130. <i>Gillichthys mirabilis</i> Cooper.	+		+			+	+	+	S.
131. <i>Crystalllogobius eos</i> Rosa Smith Mss.								+	S.
132. <i>Trichodon stelleri</i> Cuv. & Val.									N.
133. <i>Caulolatilus anomalus</i> (Cooper) Gill.				+		+	+	+	S.
134. <i>Bathymaster signatus</i> Cope.	+		+						N.
135. <i>Ichthyos lockingtoni</i> J. & G.			+						N.
136. <i>Ichthyos ænigmaticus</i> Lock.			+						N.
137. <i>Trachipterus</i> ¶ ? <i>altivelis</i> Kner.									N.
138. <i>Hypsypops rubicundus</i> (Grd.) Gill.						+	+	+	S.
139. <i>Chromis punctipinnis</i> Cooper.						+	+	+	S.
140. <i>Pseudojulis modestus</i> (Grd.) Gthr.				+		+	+		S.
141. <i>Platyglossus semicinctus</i> (Ayres) Gthr.						+	+		S.
142. <i>Pimelometopon pulcher</i> (Ayres) Gill.				+		+	+	+	S.

* Nom. sp. nov.—*Sebastes melanops* Ayres, non *Sebastes melanops* Grd.

† *Sebastosomus simulans* Gill.

‡ *Chirus trigrammus* Cope.

§ *Chirus pictus* Grd.; *Chirus balias* Cope.

|| *Chirus guttatus* Grd. (♀); *Chirus constellatus* Grd. (♂); *Chirus maculoseriatus* Lock. (♀).

¶ Taken at Santa Cruz by Dr. C. L. Anderson, and at Cape Flattery by James G. Swan.

Name.	Puget Sound.	Columbia River.	San Francisco.	Monterey Bay.	San Luis Obispo.	Santa Barbara.	San Pedro.	San Diego.	Greatest abundance.
143. <i>Abeona minima</i> (Gibbons) Gill			+	+	+	+		+	C.
144. <i>Abeona aurora</i> J. & G.			+	+					C.
145. <i>Cymatogaster aggregatus</i> Gibbons	+		+	+	+	+	+	+	C.
146. <i>Brachyistius frenatus</i> Gill	+		+	+		+	+		C.
147. <i>Brachyistius rosaceus</i> J. & G.			+						C.
148. <i>Holconotus analis</i> (A. Agassiz) J. & G.				+	+				C.
149. <i>Holconotus argenteus</i> (Gibbons) J. & G.			+	+	+	+	+	+	C.
150. <i>Holconotus agassizi</i> (Gill) J. & G.			+	+	+				C.
151. <i>Holconotus rhodoterus</i> Ag.			+	+		+			C.
152. <i>Amphistichus argenteus</i> Ag.			+	+	+	+	+	+	C.
153. <i>Hypsurus caryi</i> (L. Agass.) A. Agass.			+	+	+	+	+	+	C.
154. <i>Ditrema* jacksoni</i> (Agass.) Günther	+		+	+	+	+	+	+	C.
155. <i>Ditrema laterale</i> (Agass.) Günther	+		+	+	+	+			N.
156. <i>Ditrema aripes</i> J. & G.				+					C.
157. <i>Ditrema furcatum</i> (Grd.) Gthr.			+	+	+	+	+	+	C.
158. <i>Damalichthys argyrosomus</i> (Grd.) J. & G.	+		+	+	+	+	+	+	N.
159. <i>Rhacochilus toxotes</i> Agass.			+	+	+	+	+		C.
160. <i>Parephippus faber†</i> (Bloch) Gill									S.
161. <i>Genyonemus lineatus</i> (Ayres) Gill			+	+	+	+	+		C.
162. <i>Corvina saturna</i> (Grd.) Gthr.						+	+	+	S.
163. <i>Roncador stearnsi</i> (Steind.) J. & G.						+	+	+	S.
164. <i>Umbrina xanti†</i> Gill						+	+	+	S.
165. <i>Menticirrhus undulatus§</i> (Grd.) Gill						+	+	+	S.
166. <i>Cynoscion nobilis</i> (Ayres)|| J. & G.			+	+		+	+	+	S.
167. <i>Cynoscion parvipinnis¶</i> Ayres						+	+	+	S.
168. <i>Seriphus politus</i> Ayres			+	+	+	+	+	+	S.
169. <i>Girella nigricans</i> (Ayres) Gill				+		+	+	+	S.
170. <i>Scorpius californiensis</i> Steind.						+	+	+	S.
171. <i>Xenichthys californiensis</i> Steind.									S.
172. <i>Pristipoma davidsoni</i> Steind.							+	+	S.
173. <i>Stereolepis gigas</i> Ayres				+		+		+	S.
174. <i>Serranus clathratus</i> (Grd.) Steind.				+		+	+	+	S.
175. <i>Serranus nebulifer</i> (Grd.) Steind.				+			+	+	S.
176. <i>Serranus maculofasciatus</i> Steind.							+	+	S.
177. <i>Stromateus simillimus</i> (Ayres) Gill	+		+	+	+	+		+	C.
178. <i>Trachurus saurus</i> Raf.				+		+	+		S.
179. <i>Caranx caballus</i> Gthr.									S.
180. <i>Seriola lalandi**</i> Cuv. & Val.						+	+	+	S.
181. <i>Oreynus alalonga††</i> (Gmel.) Risso				+		+	+		S.
182. <i>Sarda chilensis‡‡</i> (C. & V.) J. & G.				+		+	+	+	S.
183. <i>Scomberomorus concolor§§</i> (Lock.) J. & G.				+					S.
184. <i>Scomber pneumatophorus|||</i> De la Roche				+					S.
185. <i>Xiphias gladius</i> L.							+		S.
186. <i>Remora jacobaea</i> (Lowe) Gill			+						S.
187. <i>Echeneis naucrates</i> L.			+						S.
188. <i>Ammodytes (tobianus) personatus</i> Grd.	+			+					N.
189. <i>Sphyræna argentea</i> Grd.			+	+		+	+	+	S.
190. <i>Atherinopsis californiensis</i> (Grd.) Gill.			+	+	+	+	+	+	C.
191. <i>Atherinops affinis</i> (Ayres) Steind.			+	+	+	+	+	+	C.
192. <i>Leuresthes tenuis</i> (Ayres) J. & G.								+	S.

* We are informed by Dr. Günther that the pharyngeals in *Ditrema temminckii* are of the normal type as in *Embiotoca*. *Ditrema* is therefore identical with *Phanerodon* Grd., and no character of importance distinguishes "Phanerodon" from *Embiotoca*. *Embiotoca argyrosoma* Grd., is identical with *Damalichthys vacca*.

† *Ephippus zonatus* Grd.

‡ *Umbrina undulata* Steind., non Grd.

§ *Umbrina elongata* Gthr.

|| *Otolithus californiensis* Steind.

¶ *Otolithus magdalenæ* Steind.

** *Seriola mazatlanæ* Steind.

†† *Oreynus pacificus* Cooper.

‡‡ *Pelamys lineolata* Grd.

§§ *Chriomitra concolor* Lock.; *Chriomitra* Lock.=*Cybum* C. & V.=*Scomberomorus* Lac.

||| *Scomber diego* Ayres.

Name.	Puget Sound.	Columbia River.	San Francisco.	Monterey Bay.	San Luis Obispo.	Santa Barbara.	San Pedro.	San Diego.	Greatest abundance.
193. <i>Mugil mexicanus</i> Steind.				+		+	+	+	S.
194. <i>Tylosurus exilis</i> (Grd.) J. & G.						+	+	+	S.
195. <i>Scomberesox brevirostris</i> Peters				+					C.
196. <i>Hemirhamphus rosæ</i> J. & G.							+	+	S.
197. <i>Exocoëtus californicus</i> Cooper						+	+	+	S.
198. <i>Cyprinodon californiensis</i> Grd.									S.
199. <i>Fundulus parvipinnis</i> Grd.						+	+	+	S.
200. <i>Myctophum procellarum</i> Bean Mss.									N.
201. <i>Myctophum crenulare</i> J. & G.						+			S.
202. <i>Synodus luciocephalus</i> (Ayres) Gill			+	+		+			S.
203. <i>Paralepis coruscans</i> J. & G.	+								N.
204. <i>Sudis ringens</i> J. & G.						+			S.
205. <i>Alepidosaurus borealis</i> Gill	+								N.
206. <i>Osmerus thaleichthys</i> Ayres.	+		+	+	+				N.
207. <i>Osmerus attenuatus</i> Lock			+						C.
208. <i>Hypomesus olidus</i> (Pallas) Gill	+		+						N.
209. <i>Thaleichthys pacificus</i> (Rich.) Grd.	+	+							N.
210. <i>Salvelinus malma</i> * (Walb.) J. & G.	+	+							N.
211. <i>Salmo purpuratus</i> Pallas	+	+	+	+					N.
212. <i>Salmo irideus</i> Gibbons				+					C.
213. <i>Salmo gairdneri</i> Rich.	+	+	+	+					N.
214. <i>Oncorhynchus kenerlyi</i> (Suckl.) Jor.	+	+							N.
215. <i>Oncorhynchus gorbuscha</i> (Walb.) Gill & Jor.	+	+	+						N.
216. <i>Oncorhynchus keta</i> † (Walb.) Gill & Jor.	+	+	+						N.
217. <i>Oncorhynchus kisutch</i> ‡ (Walb.) J. & G.	+	+	+						N.
218. <i>Oncorhynchus tshawytscha</i> (Walb.) J. & G.	+	+	+	+					N.
219. <i>Oncorhynchus nerka</i>|| (Walb.) Gill & Jor.	+	+							N.
220. <i>Stolephorus ringens</i> (Jenyns) J. & G.	+	+	+	+	+	+	+	+	S.
221. <i>Stolephorus delicatissimus</i> (Grd.) J. & G.								+	S.
222. <i>Stolephorus compressus</i> (Grd.) J. & G.							+	+	S.
223. <i>Clupea sagax</i> Jenyns			+	+	+	+	+	+	S.
224. <i>Clupea mirabilis</i> Grd.	+		+	+	+	+	+	+	N.
225. <i>Albula vulpes</i> (L.) Goode				+				+	S.
226. <i>Nemichthys avocetta</i> J. & G.	+								N.
227. <i>Myrichthys tigrinus</i> Grd.									N.
228. <i>Ophichthys triserialis</i> (Kaup) Gthr.									S.
229. <i>Muraena mordax</i> Ayres							+	+	S.
230. <i>Acipenser transmontanus</i> ¶ Rich.	+	+	+						N.
231. <i>Acipenser medirostris</i> ** Ayres		+	+						N.
232. <i>Chimaera coliaei</i> Bennett	+		+	+					N.
233. <i>Manta birostris</i> †† (Walb.) J. & G.									S.
234. <i>Myliobatis californicus</i> Gill			+	+	+	+	+	+	S.
235. <i>Aetobatis laticeps</i> Gill									S.
236. <i>Pteroplatea marmorata</i> Cooper						+	+	+	S.
237. <i>Dasybatus dipterus</i> J. & G.							+	+	S.
238. <i>Urolophus halleri</i> Cooper						+	+	+	S.
239. <i>Raia binoculata</i> Grd. ‡‡	+		+	+					N.
240. <i>Raia rhina</i> J. & G.	+		+	+					N.
241. <i>Raia inornata</i> J. & G. Mss.			+	+					C.
var. <i>inermis</i> J. & G. Mss.						+			C.
242. <i>Raia stellulata</i> J. & G.				+					C.

* *Salmo spectabilis* Grd.; *Salmo bairdi*, etc., Suckley; *Salmo callarias* Pallas.

† *Salmo scouleri* Rich., non Suckl.

‡ *Salmo sanguinolentus* Pallas; *Salmo tsuppitch* Rich.; *Salmo scouleri* Suckl.

§ *Salmo lycaodon* Pallas, non Gthr.; *Salmo paucidens* Rich.

|| *Salmo lagocephalus* Pallas; *Salmo canis* Suckl.

¶ *Acipenser brachyrhynchus* et *acutirostris* Ayres.

** *Acipenser acutirostris* Gthr.

†† *Raia birostris* Walb.; *Manta americana* Bancroft; *Ceratoptera vampyrus* Auct.

‡‡ *Raia binoculata* Grd. = yg. of *Raia cooperi* Grd.

Name.	Puget Sound.	Columbia River.	San Francisco.	Monterey Bay.	San Luis Obispo.	Santa Barbara.	San Pedro.	San Diego.	Greatest abundance.
243. <i>Zapteryx exasperatus</i> J. & G.....	.....	.....	.....	.....	.....	.....	.....	+	S.
244. <i>Rhinobatus triseriatus</i> J. & G.....	.....	.....	+	.....	.....	+	+	+	S.
245. <i>Rhinobatus productus</i> Ayres.....	.....	.....	+	.....	+	+	+	+	S.
246. <i>Torpedo californica</i> Ayres.....	.....	.....	+	+	.....	.....	.....	.....	C.
247. <i>Squatina angelus</i> Dum.....	.....	.....	+	+	.....	+	+	+	S.
248. <i>Somniosus microcephalus</i> (Bloch) Gill.....	+	.....	.....	.....	.....	.....	.....	.....	N.
249. <i>Squalus acanthias</i> L.....	+	.....	+	+	.....	+	.....	.....	N.
250. <i>Heterodontus francisci</i> (Grd.) Gill.....	.....	.....	.....	.....	.....	+	+	+	S.
251. <i>Notorhynchus maculatus</i> Ayres.....	.....	.....	+	+	.....	.....	.....	.....	C.
252. <i>Hexanchus corinus</i> J. & G.....	+	.....	.....	+	.....	.....	.....	.....	C.
253. <i>Catulus ventriosus</i> * (Garman) J. & G.....	.....	.....	.....	+	.....	+	+	.....	S.
254. <i>Mustelus hinnulus</i> (Blainv.) J. & G.....	.....	.....	+	+	.....	+	+	+	S.
255. <i>Rhinotriacis henlei</i> Gill.....	.....	.....	+	+	.....	.....	.....	.....	C.
256. <i>Triacis semifasciatus</i> Grd.....	.....	.....	+	+	.....	+	+	+	C.
257. <i>Galeorhinus galeus</i> (L.) Blainv.....	.....	.....	+	+	.....	+	+	+	S.
258. <i>Galeocerdo tigrinus</i> M. & H.....	.....	.....	.....	.....	.....	.....	.....	+	S.
259. <i>Carcharinus glaucus</i> (L.) Blainv.....	+	.....	+	.....	.....	.....	.....	.....	C.
260. <i>Eulamia lamia</i> (Risso) Gill.....	.....	.....	.....	.....	.....	.....	.....	+	S.
261. <i>Sphyrna zygaena</i> (L.) Raf.....	.....	.....	.....	.....	.....	.....	.....	.....	S.
262. <i>Cetorhinus maximus</i> (L.) Blainv.....	.....	.....	.....	+	.....	.....	.....	.....	C.
263. <i>Carcharodon carcharias</i> † (L.) J. & G.....	.....	.....	.....	+	.....	.....	.....	.....	S.
264. <i>Isurus oxyrinchus</i> Raf.....	.....	.....	.....	.....	.....	.....	+	.....	S.
265. <i>Lamna cornubica</i> (Gmel.) Flem.....	.....	.....	.....	+	.....	.....	.....	.....	C.
266. <i>Alopias vulpes</i> (Gmel.) Bon.....	.....	.....	.....	+	.....	.....	.....	.....	C.
267. <i>Entosphenus tridentatus</i> (Rich.) Gill.....	.....	+	.....	+	.....	.....	.....	.....	N.
268. <i>Ammocetes plumbeus</i> (Ayres) J. & G.....	+	.....	+	.....	.....	.....	.....	.....	N.
269. <i>Polistotrema dombeyi</i> ‡ (Muller) Gill.....	.....	.....	+	+	.....	.....	.....	.....	S.
270. <i>Branchiostoma lanceolatum</i> (Pallas) Gray.....	.....	.....	.....	.....	.....	.....	.....	.....	S.
Totals.....	90	14	145	148	43	99	80	83	

Species most abundant northward (Alaskan fauna).....	96
Species most abundant centrally (Californian fauna).....	76
Species most abundant southward (Lower Californian fauna).....	98

Total.....	270
Species found also in Atlantic Ocean.....	28
Species not obtained by the Commission.....	15
Species not recorded by previous writers.....	66

* *Cephaloscyllium laticeps* J. & G., probably not of Duméril.

† *Carcharodon rondeleti* M. & H.

‡ *Bdellostoma polytrema* Grd.; *Bdellostoma stouti* Lock.

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