

PROCEEDINGS  
OF THE  
UNITED STATES NATIONAL MUSEUM.  
1881.

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CHECK-LIST OF DUPLICATES OF FISHES FROM THE PACIFIC  
COAST OF NORTH AMERICA, DISTRIBUTED BY THE SMITH-  
SONIAN INSTITUTION IN BEHALF OF THE UNITED STATES  
NATIONAL MUSEUM, 1881.

Prepared by DAVID S. JORDAN and PIERRE L. JOUY.

HIPPOCAMPIDÆ.

1. *Hippocampus ingens* Grd.

7404. California.

SYNGNATHIDÆ.

2. *Siphostoma leptorhynchus*\* (Grd.) J. & G.

26808. San Diego, California.

3. *Siphostoma californiense* (Storer) J. & G.

26943. Santa Barbara, California.

27050. Monterey, California.

27199. San Francisco, California.

27380. Santa Barbara, California.

AULORHYNCHIDÆ.

4. *Aulorhynchus flavidus* Gill.

27021. Monterey, California.

GASTEROSTEIDÆ.

5. *Gasterosteus (aculeatus var.) cataphractus*† (Pallas) J. & G.

27284. Puget Sound.

6. *Gasterosteus microcephalus* Grd.

7814. San Francisco, California.

PLEURONECTIDÆ.

7. *Aphoristia atricauda* Jor. & Gilb.

27396. San Diego, California.

(Types.)

8. *Pleuronichthys verticalis* Jor. & Gilb.

(Types.)

26979. Monterey, California.

| 27230. San Francisco, California.

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\* Including *Syngnathus dimidiatus* Gill.

† *Gasterosteus serratus* Ayres.

9. *Pleuronichthys decurrens* Jor. & Gilb.

(Types.)

26978. Monterey, California. | 27115. San Francisco, California.

10. *Pleuronichthys cœnosus* Grd.

25025. Santa Catalina Island, California.		27123. San Francisco, California.
25049. Wilmington, California.		27231. " "
26769. San Diego, California.		27274. Puget Sound.
27056. Monterey, California.		27298. " "

11. *Hypsopsetta guttulata* (Grd.) Gill.

24871. San Diego, California.		26841. San Pedro, California.
24910. " "		26902. Santa Barbara, California.
26768. " "		26938. " "

12. *Cynioglossus pacificus* Lockington.

27058. Monterey, California.		27302. Puget Sound.
27228. San Francisco, California.		

13. *Glyptocephalus zachirus* Lockington.

26985. Monterey, California.		27210. Point Reyes, California.
27124. San Francisco, California.		

14. *Pleuronectes stellatus* Pallas.

22683. California.		27059. Monterey, California.
24163. San Francisco, California.		27227. San Francisco, California.
24164. " "		27273. Puget Sound.
26915. San Luis Obispo, California.		

15. *Lepidopsetta bilineata* (Ayres) Gill.

27003. Monterey, California.		27299. Puget Sound.
27117. San Francisco, California.		

16. *Parophrys ischyryus* Jor. & Gilb.

(Types.)

27266. Puget Sound.

17. *Parophrys isolepis* (Lock.) J. & G.

(Types.)

26982. Monterey, California.		27301. Puget Sound.
27116. San Francisco, California.		27347. " "
27229. " "		

18. *Parophrys vetulus* Grd.

27057. Monterey, California.		27300. Puget Sound.
27232. San Francisco, California.		

19. *Citharichthys sordidus* (Grd.) Gthr.

24168. San Francisco, California.		27233. San Francisco, California.
27002. Monterey, California.		27325. Puget Sound.
27120. San Francisco, California.		

20. *Psettichthys melanostictus* Grd.

27000. Monterey, California.		27234. San Francisco, California.
27119. San Francisco, California.		27348. Puget Sound.

21. *Hippoglossoides exilis* Jor. & Gilb

(Types.)

27061. Monterey, California. | 27121. San Francisco, California.

22. *Hippoglossoides elassodon* Jor. & Gilb.

(Types.)

27062. Puget Sound. | 27263. Puget Sound.

23. *Hippoglossoides jordani* Lockington.

26981. Monterey, California. | 27118. San Francisco, California.

24. *Paralichthys maculosus* Grd.

17063. Santa Barbara, California.		26847. San Pedro, California.
24813. San Diego, California.		26930. Santa Barbara, California.
24874. " "		27067. Monterey, California.
25079. Santa Barbara, California.		27125. San Francisco, California.
26767. San Diego, California.		

25. *Xystreurus liolepis* Jor. & Gilb.

(Types.)

26884. Santa Barbara, California.

26. *Hippoglossus vulgaris* Flem.

27326. Straits of Fuca. (Skulls.)

27. *Atheresthes stomias* Jor. & Gilb.

(Types.)

27122. Point Reyes, California. | 27186. Point Reyes, California.

GADIDÆ.

28. *Merluccius productus* (Ayres) Gill.

27010. Monterey, California.		27203. San Francisco, California.
27167. San Francisco, California.		27295. Puget Sound.

29. *Pollachius chalcogrammus* (Pallas) J. & G.

27312. Puget Sound.

30. *Gadus morrhua* L.

27318. Puget Sound.

31. *Microgadus proximus* (Grd.) Gill.

24656. San Francisco, California.		27317. Puget Sound.
27183. " "		

BROTULIDÆ.

32. *Brosmophycis marginatus* (Ayres) Gill.

27045. Point Reyes, California.

OPHIDIIDÆ.

33. *Ophidium taylori* Grd.

7863. California.		27393. Monterey, California.
27130. San Francisco, California.		

CONGROGADIDÆ.

34. *Scytalina cerdale* Jor. & Gilb.

(Types.)

27400. Cape Flattery, Washington Territory.

## ZOARCIDÆ.

35. *Lycodopsis pacificus* Collett.

27143. Point Reyes, California. | 27334. Cape Flattery, Washington Territory.

36. *Lycodopsis paucidens*\* (Lock.) Gill.

27142. Point Reyes, California.

## BLENNIIDÆ.

37. *Anarrhichthys ocellatus* Ayres.

23396. Neah Bay, Washington Territory.	27194. San Francisco, California.
27054. Monterey, California.	27272. Puget Sound.
27149. San Francisco, California.	.

38. *Lumpenus anguillaris* (Pallas) Gill.

27154. Puget Sound. | 27258. Puget Sound.

39. *Xiphister rupestris* Jor. & Gilb.

(Types.)

27001. Monterey, California. | 27327. Cape Flattery, Washington Territory.

40. *Xiphister mucosus* (Grd.) Jor.

26999. Monterey, California. | 27328. Cape Flattery, Washington Territory.

41. *Xiphister chirus* J. & G.

(Types.)

27175. Monterey, California. | 27338. Puget Sound.

42. *Cebedichthys violaceus* Grd.

26998. Monterey, California. | 27392. San Francisco, California.

43. *Anoplarchus alectrolophus* (Pallas) J. & G.

27339. Cape Flattery, Washington Territory.

44. *Apodichthys fucorum* Jor. & Gilb.

(Types.)

26994. Monterey, California.

45. *Apodichthys flavidus* Grd.

6674. California.	27163. San Francisco, California.
7334. San Francisco, California.	27193. " "
20328. California.	27335. Cape Flattery, Washington Territory.
23408. Neah Bay, Washington Territory.	

46. *Muraenoides ornatus*† (Grd.) Gill.

27181. Puget Sound.	27330. Cape Flattery, Washington Territory.
27192. "	

47. *Cremnobates integripinnis*‡ Rosa Smith.

20547. San Diego, California. | 27404. San Diego, California (types)

48. *Gibbonsia elegans* Cooper.

27037. Monterey, California.	27394. Monterey, California.
27383. San Diego, California.	27416. San Diego, California.

\* Perhaps a form of the preceding.

† Most of the specimens distributed belong to the form called *Muraenoides vetus* (Cope).‡ Probably identical with *Cremnobates monophthalmus* Gthr.

**49. *Heterostichus rostratus* Grd.**

- |   |                                   |
|---|-----------------------------------|
| 20570. California.                        | 26763. San Diego, California.     |
| 24996. Wilmington, California.            | 26890. Santa Barbara, California. |
| 25019. Santa Catalina Island, California. | 27201. Monterey, California.      |
| 25048. Wilmington, California.            |                                   |

**50. *Neoclinus blanchardi* Grd.**

- |                                   |                              |
|-----------------------------------|------------------------------|
| 26883. Santa Barbara, California. | 27179. Monterey, California. |
| 26942. " " "                      |                              |

**51. *Neoclinus satiricus* Grd.**

- |                              |                              |
|------------------------------|------------------------------|
| 22334. Monterey, California. | 27040. Monterey, California. |
|------------------------------|------------------------------|

**52. *Hypoleurochilus gentilis* (Grd.) Gill.**

26917. Santa Barbara, California.

BATRACHIDÆ.

**53. *Porichthys porosissimus* (Cuv. & Val.) Gthr.**

- |                                   |                                   |
|-----------------------------------|-----------------------------------|
| 26889. Santa Barbara, California. | 27132. San Francisco, California. |
| 27009. Monterey, California.      | 27200. " "                        |
| 27063. " " "                      | 27277. Puget Sound.               |

GOBIESOCIDÆ.

**54. *Gobiesox reticulatus* Grd.**

- |                              |   |
|------------------------------|---|
| 27012. Monterey, California. | 27329. Capo Flattery, Washington Territory. |
|------------------------------|---|

LIPARIDIDÆ.

**55. *Liparis pulchellus* Ayres.**

27081. Monterey, California.

AGONIDÆ.

**56. *Brachyopsis verrucosus* Lockington.**

(Types.)

27184. Point Reyes, California.

**57. *Brachyopsis xyosternus* J. & G.**

(Types.)

- |                                 |                            |
|---------------------------------|----------------------------|
| 27188. Point Reyes, California. | 27395. Soquel, California. |
|---------------------------------|----------------------------|

**58. *Podothecus acipenserinus* (Pallas) Gill.**

27332. Cape Flattery, Washington Territory.

COTTIDÆ.

**59. *Ascelichthys rhodorus* J. & G.**

(Types.)

27331. Cape Flattery, Washington Territory.

**60. *Cottopsis gulosus* Grd.**

- |                                  |                                   |
|----------------------------------|-----------------------------------|
| 7817. San Francisco, California. | 27390. McCloud River, California. |
|----------------------------------|-----------------------------------|

**61. *Cottopsis semiscaber* Cope.**

27414. Utah Lake, Utah.

**62. *Cottopsis asper* (Rich.) Grd.**

- |                                 |                                      |
|---------------------------------|--------------------------------------|
| 3306. Puget Sound.              | 27145. Sacramento River, California. |
| 6052. " "                       | 27268. Puget Sound.                  |
| 12963. Mare Island, California. | 27281. Columbia River.               |
| 12966. " " "                    |                                      |

- 63. *Cottus polyacanthocephalus* Pallas.**  
27262. Puget Sound.
- 64. *Artedius lateralis* Grd.**  
23407. Neah Bay, Washington Territory. | 27337. Cape Flattery, Washington Territory.
- 65. *Artedius notospilotus* Grd.**  
25037. Santa Barbara, California. | 26865. Santa Barbara, California.  
25082. " " | 27146. Puget Sound.
- 66. *Artedius quadriseriatus* Lockington.**  
26848. San Francisco, California. | 27133. San Francisco, California.
- 67. *Artedius pugetensis* Steind.**  
27185. Point Reyes, California. | 27238. Straits of Fuca.
- 68. *Hemilepidotus spinosus* Ayres.**  
27011. Monterey, California. | 27236. San Francisco, California.  
27052. " " | 27381. Monterey, California.
- 69. *Hemilepidotus trachurus*\* (Pallas) Gthr.**  
24672. Neah Bay, Washington Territory.
- 70. *Aspicottus bison* Grd.**  
27261. Puget Sound.
- 71. *Scorpænichthys marmoratus* Grd.**  
24142. San Francisco, California. | 27053. Monterey, California.  
25038. Santa Barbara, California. | 27110. San Francisco, California.  
25071. " " | 27350. Puget Sound.  
26888. " " |
- 72. *Leptocottus armatus* Grd.**  
24822. San Diego, California. | 27055. Monterey, California.  
24862. " " | 27147. San Francisco, California.  
24906. " " | 27267. Puget Sound.
- 73. *Liocottus hirundo* Grd.**  
26887. Santa Barbara, California.
- 74. *Blennicottus globiceps* (Grd.) Gill.**  
27336. Cape Flattery, Washington Territory.
- 75. *Oligocottus maculosus* Grd.**  
27177. Monterey, California. | 27333. Cape Flattery, Washington Territory.
- 76. *Oligocottus analis* Grd.**  
26761. San Diego, California. | 27415. San Diego, California.  
27051. Monterey, California. |
- 77. *Blepsias cirrhosus* (Pallas) Gthr.**  
27240. Straits of Fuca.
- 78. *Nautichthys oculo-fasciatus* Grd.**  
27239. Straits of Fuca.

## SCORPÆNIDÆ.

- 79. *Scorpæna guttata* Grd.**  
24982. Wilmington, California. | 26861. San Pedro, California.  
24998. " " | 26879. Santa Barbara, California.  
25026. Santa Catalina Island, California. |

\* *Hemilepidotus gibbsi* Gill; *Temnistia ventricosa* Rich.

**80. *Sebastichthys nigrocinctus* (Ayres) Gill.**

26391. Monterey, California.		27285. Puget Sound.
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**81. *Sebastichthys serriiceps* Jor. & Gilb.**

(Types.)

25005. San Pedro, California.		27041. Monterey, California.
26918. Santa Barbara, California.		27090. San Francisco, California.

**82. *Sebastichthys nebulosus* (Ayres) Gill.**

23397. Neah Bay, Washington Territory.		27093. San Francisco, California.
24674. " " "		27343. Puget Sound.
26986. Monterey, California.		

**83. *Sebastichthys chrysomelas* Jor. & Gilb.**

(Types.)

25076. Santa Barbara, California.		26934. Santa Barbara, California.
26880. " " "		26968. Monterey, California.

**84. *Sebastichthys carnatus* Jor. & Gilb.**

(Types.)

24144. San Francisco, California.		27098. San Francisco, California.
26993. Monterey, California.		

**85. *Sebastichthys maliger* Jor. & Gilb.**

(Types.)

2002. Puget Sound.		27208. San Francisco, California.
26970. Monterey, California.		27309. Puget Sound.
27091. San Francisco, California.		

**86. *Sebastichthys caurinus* (Rich.) J. & G.**

27100. Puget Sound.		27294. Puget Sound.
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**87. *Sebastichthys vexillaris* Jor. & Gilb.**

(Types.)

26997. Monterey, California.		27087. San Francisco, California.
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**88. *Sebastichthys rastrelliger* Jor. & Gilb.**

(Types.)

25023. Santa Catalina Island, California.		27033. Monterey, California.
25053. San Pedro, California.		27102. San Francisco, California.
26908. Santa Barbara, California.		

**89. *Sebastichthys auriculatus* (Grd.) Gill.**

15039. Mouth of Russian River, California.		26935. Santa Barbara, California.
15040. " " "		27104. San Francisco, California.
26904. Santa Barbara, California.		27293 (var). Puget Sound.

**90. *Sebastichthys rubrivinctus* Jor. & Gilb.**

(Types.)

26989. Monterey, California.		
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**91. *Sebastichthys chlorostictus* Jor. & Gilb.**

(Types.)

26964. Monterey, California.		27092. San Francisco, California.
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**92. *Sebastichthys rhodochloris* Jor. & Gilb.**

(Types.)

26967. Monterey, California.		27106. San Francisco, California.
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**93. *Sebastichthys rosaceus* (Grd.) Lock.**

24148. San Francisco, California.	27089. San Francisco, California.
24657. " " "	27211. " " "
26961. Monterey, California.	

**94. *Sebastichthys constellatus* Jor. & Gilb.**

(Types.)

24147. San Francisco, California.	27086. San Francisco, California.
26963. Monterey, California.	

**95. *Sebastichthys ruber* (Ayres) Lock.**

26962. Monterey, California.	27346. Puget Sound.
27097. San Francisco, California.	

**96. *Sebastichthys miniatus* Jor. & Gilb.**

(Types.)

26965. Monterey, California.	27213. San Francisco, California.
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**97. *Sebastichthys pinniger* (Gill) Lock.**

23398. Neah Bay, Washington Territory.	27099. San Francisco, California.
26966. Monterey, California.	27344. Puget Sound.

**98. *Sebastichthys atrovirens* Jor. & Gilb.**

(Types.)

24994. San Pedro, California.	26870. Santa Barbara, California.
25010. " " "	26903. " " "
25052. " " "	27032. Monterey, California.
25054. " " "	27096. San Francisco, California.

**99. *Sebastichthys elongatus* (Ayres) Gill.**

26960. Monterey, California.	27095. San Francisco, California.
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**100. *Sebastichthys proriger* Jor. & Gilb.**

(Types.)

24658. San Francisco, California.	27105. San Francisco, California.
26980. Monterey, California.	

**101. *Sebastichthys ovalis* (Ayres) Lock.**

27043. Monterey, California.
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**102. *Sebastichthys entomelas* Jor. & Gilb.**

(Types.)

27044. Monterey, California.
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**103. *Sebastichthys mystinus* Jor. & Gilb.**

(Types.)

26971. Monterey, California.	27085. San Francisco, California.
27031. " " "	

**104. *Sebastichthys ciliatus*\* (Tilesius) J. & G.**

27255. Kodiak, Alaska.
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**105. *Sebastichthys melanops* (Grd.) Gill.**

24669. Neah Bay, Washington Territory.	27088. San Francisco, California.
27042. Monterey, California.	27319. Puget Sound.

**106. *Sebastichthys flavidus* (Ayres) Lock.**

26984. Monterey, California.	27101. San Francisco, California.
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**107. *Sebastes paucispinis* (Ayres) Gill.**

26950. Santa Barbara, California.	27094. San Francisco, California.
26992. Monterey, California.	



CHIRIDÆ.

108. *Hexagrammus asper* Steller.

27280. Puget Sound.

109. *Hexagrammus superciliosus* (Pallas) J. & G.

27114. San Francisco, California.

110. *Hexagrammus decagrammus* (Pallas) J. & G.

23400, ♀.*	Neah Bay, Washington Territory.	27214, ♀.	San Francisco, California.
27005, ♀.	Monterey, California.	27215, ♂.	" "
27006, ♂.†	" "	27278, ♂.	Puget Sound.
27109, ♀.	San Francisco, California.	27279, ♀.	" "
27166, ♂.	" "	27388, ♀.	San Francisco, California.

111. *Ophiodon elongatus* Grd.

6645.	California.	26893.	Santa Barbara, California.
6653.	"	27047.	Monterey, California.
24169.	San Francisco, California.	27241.	San Francisco, California.
24670.	Neah Bay, Washington Territory.		

112. *Zaniolepis latipinnis* Grd.

27027. Point Reyes, near San Francisco, California

113. *Oxylebius pictus* Gill.

27174. Monterey, California.

114. *Anoplopoma fimbria* (Pallas) Gill.

24655.	San Francisco, California.	27282.	Puget Sound.
27128.	" "		

GOBIIDÆ.

115. *Lepidogobius gracilis* (Grd.) Gill.

27135. San Francisco, California.

116. *Gillichthys mirabilis* Cooper.

26794. San Diego, California.

LATILIDÆ.

117. *Caulolatilus anomalus*† (Cooper) Gill.

24992.	Wilmington, California.	26845.	San Pedro, California.
25002.	" "	26863.	Santa Barbara, California.
25040.	" "	27069.	Monterey, California.

ICOSTEIDÆ?

118. *Bathymaster signatus* Cope.

27265. Puget Sound.

POMACENTRIDÆ.

119. *Chromis punctipinnis* Cooper.

24981.	Santa Catalina Island, California.	25016.	Santa Catalina Island, California.
24986.	Wilmington, California.	26871.	Santa Barbara, California.
25007.	" "		

120. *Hypsypops rubicundus* (Grd.) Gill.

17764.	San Francisco, California.	25047.	Wilmington, California.
24995.	Wilmington, California.	26945.	Santa Barbara, California.

\* "*Chirus guttatus*" Grd.

† "*Chirus constellatus*" Grd.

‡ Probably identical with *Latilus princeps* Jenyns.

## LABRIDÆ.

**121. Pseudojulius modestus** (Grd.) Gthr.

25030. Santa Catalina Island, California.	26937. Santa Barbara, California.
25041. Santa Barbara, California.	26977. Monterey, California.
26882. " " "	27376. Santa Barbara, California.

**122. PlatyGLOSSUS semicinctus** (Ayres) Gthr.

25001. Wilmington, California.

**123. Pimelometopon pulcher** (Ayres) Gill.

25000. Wilmington, California.	26869. Santa Barbara, California.
25078. Santa Barbara, California.	

## EMBIOTOCIDÆ.

**124. HysteroCARPUS traski** Gibbons.

27013. Sacramento River, California.

**125. Abeona minima** (Gibbons) Gill.

25085. Santa Barbara, California.	27029. Monterey, California.
26774. San Diego, California.	27078. " "
26913. Santa Barbara, California.	

**126. Abeona aurora** Jor. & Gilb.

(Types.)

26996. Monterey, California.	27155. San Francisco, California.
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**127. Cymatogaster aggregatus\*** Gibbons.

26914. Santa Barbara, California.	27243. San Francisco, California.
27080. Monterey, California.	27296. Puget Sound.
27165. San Francisco, California.	

**128. Brachyistius frenatus** Gill.

26891. Santa Barbara, California.	26990. Monterey, California.
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**129. Brachyistius rosaceus** Jor. & Gilb.

(Types.)

27170. Point Reyes, California.

**130. Holconotus analis** (A. Agassiz) J. & G.

27075. Monterey, California.

**131. Holconotus argenteus** (Gibbons) J. & G.

24836. San Diego, California.	26895. Santa Barbara, California.
24914. " " "	26912. " "
25065. Santa Barbara, California.	27073. Monterey, California.
25069. " " "	27158. San Francisco, California.

**132. Holconotus agassizii** (Gill) J. & G.

27076. Monterey, California.	27157. San Francisco, California.
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**133. Holconotus rhodoterus†** Ag.

26901. Santa Barbara, California.	27074. Monterey, California.
26933. " " "	27156. San Francisco, California.

**134. Amphistichus argenteus** Ag.

24149. San Francisco, California.	26885. Santa Barbara, California.
25064. Santa Barbara, California.	27083. Monterey, California.
25077. " " "	

\*Nos. 566, 567, 572, 17028, 17029, 17030, 17031, 17032, 17033, and 20340, sent out in previous distributions under the name of "*Holconotus rhodoterus* Ag.," belong to *Cymatogaster aggregatus*.†See note under *Cymatogaster aggregatus*.

**135. *Hypsurus caryi* (L. Agass.) A. Agass.**

26896. Santa Barbara, California.	27079. Monterey, California.
26940. " "	27129. San Francisco, California.
27017. Monterey, California.	

**136. *Ditrema jacksoni* (Agass.) Gthr.**

24157. San Francisco, California.	25017. Santa Catalina Island, California.
24835. San Diego, California.	25021. " "
24837. " "	25034. Santa Barbara California.
24983. Wilmington, California.	27014. Monterey, California.
25011. " "	27242. San Francisco, California.

**137. *Ditrema laterale* (Agass.) Gthr.**

24151. San Francisco, California.	27028. Monterey, California
24152. " "	27310. Puget Sound.
27153. " "	27386. "
26875. Santa Barbara, California.	

**138. *Ditrema atripes* Jor. & Gilb.**

(Types.)

26987. Monterey, California.
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**139. *Ditrema furcatum* (Grd.) Gthr.**

24831. San Diego, California.	26877. Santa Barbara, California.
26777. " "	26988. Monterey, California.

**140. *Damalichthys argyrosomus* (Grd.) J. & G.**

6194. Puget Sound.	26054. Santa Barbara, California.
25067. Santa Barbara, California.	27018. Monterey, California.
26894. " "	27313. Puget Sound.

**141. *Rhacochilus toxotes* Ag.**

24154. San Francisco, California.	26949 (fetal). Santa Barbara, California.
25012. Wilmington, California.	27015. Monterey, California.
26948. Santa Barbara, California.	

SCIENIDÆ.

**142. *Genyonemus lineatus* (Ayres) Gill.**

26911. Santa Barbara, California.	27152. San Francisco, California.
26972. Monterey, California.	

**143. *Corvina saturna* (Grd.) Gthr.**

24818. San Diego, California.	26759. San Diego, California.
25075. Santa Barbara, California.	26868. Santa Barbara, California.

**144. *Roncador stearnsii* (Steind.) J. & G.**

25044. Wilmington, California.	26864. Santa Barbara, California
26757. San Diego, California.	

**145. *Umbrina xanti* Gill.**

26758. San Diego, California.	26872. Santa Barbara, California.
26849. San Pedro, California.	

**146. *Menticirrus undulatus* (Grd.) Gill.**

25073. Santa Barbara, California.	26854. San Pedro, California.
26797. San Diego, California.	26878. Santa Barbara, California.

**147. *Cynoscion nobile* (Ayres) J. & G.**

26855. San Pedro, California.	27070. Monterey, California.
26876. Santa Barbara, California.	

**148. *Cynoscion parvipinnis* Ayres.**

24817. San Diego, California.	26753. San Diego, California.
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**149. Seriphus politus** Ayres.

6657. California.	27153. San Francisco, California
26804. San Diego, California.	27195. " "
26955. Santa Barbara, California.	

## PIMELEPTERIDÆ.

**150. Girella nigricans** (Ayres) Gill.

24987. Wilmington, California.	26867. Santa Barbara, California.
25008. " "	26956. " "
25072. Santa Barbara, California.	27384. San Diego, California.

**151. Scorpis californiensis** Steind.

24979. Santa Catalina Island, California.	25009. Wilmington, California.
24984. Wilmington, California.	26850. San Pedro, California.

## PRISTIPOMATIDÆ

**152. Pristipoma davidsoni** Steind.

26853. San Pedro, California.
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## SERRANIDÆ.

**153. Serranus clathratus** (Grd.) Steind.

29571. California.	26799. San Diego, California.
24985. San Pedro, California.	26851. San Pedro, California.
25013. " "	26886. Santa Barbara, California.
25042. " "	27046. Monterey, California.
25074. Santa Barbara, California.	

**154. Serranus nebulifer** (Grd.) Steind

26754. San Diego, California.
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**155. Serranus maculofasciatus** Steind.

24819. San Diego, California.	26755. San Diego, California.
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## CENTRARCHIDÆ.

**156. Archoplites interruptus** (Grd.) Gill.

27020. Sacramento River, California.	27137. Sacramento River, California.
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## STROMATEIDÆ.

**157. Stromateus simillimus** (Ayres) Gill.

26800. San Diego, California.	27077. Monterey, California,
26910. Santa Barbara, California.	27162. San Francisco, California.
26959. " "	

## CARANGIDÆ.

**158. Trachurus plumieri** (Lac.) J. & G.

26838. San Pedro California.	27377. Santa Barbara, California.
26909. Santa Barbara, California.	

**159. Seriola lalandi** Cuv. & Val.

26835. San Pedro, California.
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## SCOMBRIDÆ.

**160. Orcynus alalonga** (Gmelin) Risso.

26873. Santa Barbara, California.
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**161. Sarda chilensis** (C. & V.) J. & G.

25031. San Diego, California.	26874. Santa Barbara, California.
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**162. *Scomberomorus concolor* (Lock.) J. & G.**

27205. Soquel, California.

AMMODYTIDÆ.

**163. *Ammodytes personatus* Grd.**

27025. Monterey, California.

| 27084. Monterey, California.

SPHYRÆNIDÆ.

**164. *Sphyræna argentea* Grd.**

25003. San Pedro, California.

26900. Santa Barbara, California.

| 26939. Santa Barbara, California.

| 27379. " "

ATHERINIDÆ.

**165. *Atherinopsis californiensis* Grd.**

24132. San Francisco, California.

24869. San Diego, California.

| 26764. San Diego, California.

| 26923. Santa Barbara, California.

**166. *Atherinops affinis* (Ayres) Steind.**

25006. Wilmington, California.

25035. Santa Barbara, California.

| 25083. Santa Barbara, California.

| 27202. San Francisco, California.

**166. *Leuresthes tenuis* (Ayres) J. & G.**

26766. San Diego, California.

MUGILIDÆ.

**168. *Mugil mexicanus* Steind.**

24827. San Diego, California.

24888. " "

26796. " "

| 26924. Santa Barbara, California.

| 27148. San Francisco, California.

SCOMBRESOCIDÆ.

**169. *Tylosurus exilis* (Grd.) J. & G.**

26756. San Diego, California.

**170. *Scombresox brevirostris* Peters.**

8885. Monterey Bay, California.

**171. *Hemirhamphus rosæ* Jor. & Gill.**

(Types.)

24917. San Diego, California.

| 26790. San Diego, California.

**172. *Exocætes californicus* Cooper.**

26832. San Pedro, California.

| 26907. Santa Barbara, California.

CYPRINODONTIDÆ.

**173. *Cyprinodon californiensis* Grd.**

27373. San Diego, California.

**174. *Fundulus parvipinnis* Grd.**

26941. Santa Barbara, California.

SCOPELIDÆ.

**175. *Synodus lucioceps* (Ayres) Gill.**

26881. Santa Barbara, California.

27072. Monterey, California.

| 27182. San Francisco, California.

## SALMONIDÆ.

**176. *Osmerus thaleichthys* Ayres.**

27019. Monterey, California. | 27136. San Francisco, California.

**177. *Osmerus attenuatus* Lockington.**

27204. San Francisco, California.

**178. *Hypomesus olidus* (Pallas) Gill.**

27150. San Francisco, California. | 27276. Puget Sound.

**179. *Thaleichthys pacificus* (Rich.) Grd.**

20567. Columbia River, Oregon. | 27297. Frazer's River, British Columbia.

**180. *Salvelinus malma* (Walb.) J. & G.**

27264. Puget Sound.

**181. *Salmo purpuratus* Pallas (*Salmo clarki* Rich.).**

27259. Puget Sound. | 27360. Utah Lake, Utah.

**182. *Salmo purpuratus*, subsp. *henshawi* Gill & Jordan.**

24139. Lake Tahoe.

**183. *Salmo irideus* Ayres.**26795. San Luis River, California. | 27356. Monterey, California.  
27207. Sacramento River, California.**184. *Salmo gairdneri* Rich.**

27218. Columbia River.

**185. *Oncorhynchus keta* (Walbaum) Gill & Jor.**24673. Neah Bay, Washington Territory. | 27288. Frazer's River, British Columbia.  
27220. San Francisco, California.**186. *Oncorhynchus kisutch* (Walb.) Jor. & Gilb.**27066. Puget Sound. | 27289. Frazer's River, British Columbia.  
27250. Sacramento River, California. | 27315. Puget Sound.  
27260. Puget Sound.**187. *Oncorhynchus chouicha* (Walb.) Jor. & Gilb. (*Salmo quinnot* Rich.).**27039. Monterey, California. | 27275. Puget Sound.  
27067. " " | 27287. Frazer's River, British Columbia.  
27217. " " | 27304. Columbia River.  
27237. Sacramento River. | 27316. Puget Sound.**188. *Oncorhynchus nerka* (Walb.) Gill & Jor.**

27303. Columbia River.

## ENGRAULIDIDÆ.

**189. *Stolephorus ringens* (Jenyns) J & G.**24824. San Diego, California. | 26958. Santa Barbara, California.  
24919. " " | 27187. San Francisco, California.  
26784. " "**190. *Stolephorus delicatissimus* (Grd.) J. & G.**

24870. San Diego, California. | 26786. San Diego, California.

**191. *Stolephorus compressus* (Grd.) J. & G.**

26785. San Diego, California. | 26862. San Pedro, California.

CLUPEIDÆ.

192. *Clupea sagax* Jenyns.

24820. San Diego, California.  
24857. " "  
24886. " "

26957. Santa Barbara, California,  
27140. San Francisco, California.  
27378. Santa Barbara, California.

193. *Clupea mirabilis* Grd.

24865. San Diego, California.

| 27351. Puget Sound.

ALBULIDÆ.

194. *Albula vulpes* (L.) Goode.

26789. San Diego, California.

CYPRINIDÆ.

195. *Orthodon microlepidotus* (Ayres) Grd.

2042. Puget Sound.

| 27139. Sacramento River.

196. *Alburnus balteatus* (Rich.) Jor.

2082. Puget Sound.

| 27341. Frazer's River, British Columbia.

197. *Squalius gibbosus* (Ayres) J. & G. (*Siboma crassicauda* Grd.).

27141. Sacramento River, California.

198. *Squalius atrarius* (Grd.) Jor.

27407. Utah Lake, Utah.

199. *Squalius rhomaleus* Jor. & Gilb.

(Types.)

27364. Utah Lake, Utah.

200. *Squalius cruoreus* Jor. & Gilb.

(Types.)

27408. Utah Lake, Utah.

201. *Squalius copei* Jor. & Gilb.

(Types.)

27409. Bear River, Evanston, Wyoming.

202. *Squalius aliciae* Jouy.

(Types.)

27412. Utah Lake, Utah.

203. *Squalius tænia* (Cope) Jor.

27410. Utah Lake, Utah.

204. *Squalius montanus* (Cope) Jor.

27411. Utah Lake, Utah.

205. *Ptychochilus oregonensis* (Rich.) Ag.

24128. Sacramento River, California.  
27244. " "  
27291. Columbia River, Oregon.

27352. Columbia River, Oregon.  
27389. Puget Sound.

206. *Ptychochilus harfordi* Jor. & Gilb.

(Types.)

27246. Sacramento River, California.

207. *Apocope vulnerata* Cope.

27413. Utah Lake, Utah.

**208. Pogonichthys macrolepidotus (Ayres) J. & G.**

27134. Sacramento River, California.

**209. Mylochilus caurinus (Rich.) Ag.**

27271. Puget Sound.

27283. Columbia River.

27342. Frazer's River, British Columbia.

**210. Mylopharodon conocephalus Ayres.**

27245. Sacramento River, California.

CATOSTOMIDÆ.

**211. Chasmistes liorus Jor. & Gilb.**

27361. Utah Lake, Utah.

**212. Catostomus fecundus Cope & Yarrow.**

27362. Utah Lake, Utah.

**213. Catostomus ardens Jor. & Gilb.**

(Types.)

27363. Utah Lake, Utah.

**214. Catostomus occidentalis Ayres.**

27131. Sacramento River, California.

**215. Catostomus macrochilus Grd.**

27290. Columbia River.

SILURIDÆ.

**216. Amiurus catus (L.) Gill.**

27144. Sacramento River, California (introduced).

MURÆNIDÆ.

**217. Muræna mordax Ayres.**

24991. Wilmington, California.

25004. " "

25022. Santa Catalina Island, California.

26501. San Diego, California.

ACIPENSERIDÆ.

**218. Acipenser transmontanus Rich.**

27065. Sacramento River, California.

27269. Frazer's River, British Columbia.

**219. Acipenser medirostris Ayres.**

27223. San Francisco, California.

CHIMÆRIDÆ.

**220. Chimæra colliæi Bennett.**

26976. Monterey, California.

27226. San Francisco, California.

27311. Puget Sound

MYLIOBATIDÆ.

**221. Myliobatis californicus Gill.**

24815. San Diego, California.

26781. " "

26840. San Pedro, California.

26892. Santa Barbara, California.

27256. San Francisco, California.



TRYGONIDÆ.

222. *Pteroplatea marmorata* Cooper.

26770. San Diego, California. | 26929. Santa Barbara, California.

223. *Dasybatus dipterurus* Jor & Gilb.

(Types.)

26782. San Diego, California.

224. *Urolophus halleri* Cooper.

24834. San Diego, California.		26834. San Pedro, California.
25024. San Pedro, California.		26925. Santa Barbara, California.
26788. San Diego, California.		

RAIIDÆ.

225. *Raia binocularata* Girard (*Raia cooperi* Girard).

21583. Washington Territory.		27257. Puget Sound.
27159. San Francisco, California.		

226. *Raia rhina* Jor. & Gilb.

(Types.)

27007. Monterey, California.		27292. Puget Sound.
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227. *Raia inornata* Jor. & Gilb.

(Types.)

24161. San Francisco, California.		27216. San Francisco, California.
26974. Monterey, California.		27252 (egg). " "

228. *Raia inornata* subsp. *inermis* Jor. & Gilb.

(Types.)

26926. Santa Barbara, California.

229. *Raia stellulata* Jor. & Gilb.

(Types.)

26975. Monterey, California.

RHINOBATIDÆ.

230. *Zapteryx exasperatus* Jor. & Gilb.

(Types.)

25050. San Diego, California.

231. *Rhinobatus triseriatus* Jor. & Gilb.

(Types.)

26773. San Diego, California.		26893. Santa Barbara, California.
26836. San Pedro, California.		

232. *Rhinobatus productus* Ayres.

24826. San Diego, California.		26852. San Pedro, California.
26772. " "		26905. Santa Barbara, California.

TORPEDINIDÆ.

233. *Torpedo californica* Ayres.

27212. Soquel, California (Monterey Bay).

SQUATINIDÆ.

234. *Squatina angelus* Duméril.

26920. Santa Barbara, California.

SPINACIDÆ.

235. *Squalus acanthias* L.

2638. California.		27305. Puget Sound.
6675. " "		

CESTRACIONTIDÆ.

236. *Heterodontus francisci* (Grd.) Gill.

24816. San Diego, California.		26803 (eggs). San Diego, California.
24997. Wilmington, California.		26846. San Pedro, California.
25020. Santa Catalina Island, California.		26928. Santa Barbara, California.
26760. San Diego, California.		

NOTIDANIDÆ.

237. *Notorhynchus maculatus* Ayres.

27191. Humboldt Bay.

238. *Hexanchus corinus* Jor. & Gilb.

(Types.)

27196. Soquel, California.

SCYLLIDÆ.

239. *Catulus ventriosus* (Garman) J. & G.

25027. Santa Catalina Island, California.		26866. Santa Barbara, California.
25055. Santa Barbara, California.		26951 (egg). " "
25062. " "		27251. Soquel, California.
25084. " "		

GALEORHINIDÆ.

240. *Mustelus hinnulus* (Blainv.) J. & G.

24823. San Diego, California.		26856. San Pedro, California.
26771. " "		26906. Santa Barbara, California.

241. *Rhinotriacis henlei* Gill.

27026. Monterey, California.		27189. San Francisco, California.

242. *Triacis semifasciatus* Grd.

25039. Santa Barbara, California.		26921. Santa Barbara, California.
25081. " "		

243. *Galeorhinus galeus* (L.) Blainv.

26927. Santa Barbara, California.		27190. San Francisco, California.
26973. Monterey, California.		27391. " "

CETORHINIDÆ.

244. *Cetorhinus maximus* (L.) Blainv.

27024. (Teeth and gill-rakers). Monterey, California.

MYXINIDÆ.

245. *Polistotrema dombeyi* (Müller) Gill.

26995. Monterey, California.