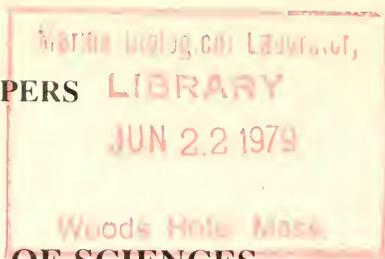


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List of the Fishes of California

By

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ABSTRACT

Hubbs, Carl L., W. I. Follett, and Lillian J. Dempster. List of the fishes of California. *Occasional Papers of the California Academy of Sciences*, no. 133, 51 pages, 1979.—Included in this list are the native marine, euryhaline, and freshwater fishes of California, and those introduced fishes that have become established within the State (also, in a supplement, those introduced fishes not known to occur at present in California). California waters are defined as including the entire Colorado River where it forms the California boundary, and the Pacific Ocean within 805 km (500 miles) of any point of land in the State between the seaward projections of its northern and southern boundaries.

INTRODUCTION

This list of the fishes of California is a revision of a manuscript list (the 14th of its series) issued in 1953 to certain students of the West Coast fish fauna, with a request for their criticisms and suggestions.

The purpose of the list is to enumerate in a single document all marine, euryhaline, and freshwater fishes that have been reliably reported as native to California or as introduced into and established within the State; also, those introduced fishes not known to occur at present in California.

The waters of California are defined as including the entire Colorado River where it forms the California boundary, and the Pacific Ocean within 805 km (500 miles) of any point of land in the State between the seaward projections of its northern and southern boundaries (the seaward limit coincides roughly with the outer edge of the California Current).

Of the 866 species (referable to 528 genera and 199 families) that constitute the present fauna, 816 are native: 729 marine, 35 euryhaline, and 52 freshwater; 49 species are introduced and established: 3 marine, 7 euryhaline, and 39 freshwater. We recognize 93 subspecies (referable to 43 species): 90 native (32 marine, 15 euryhaline, and 43 freshwater) and 3 introduced (all freshwater). Four species—the longnose eel (*Xenomystax atrarius*), the highfin lizardfish (*Bathysaurus mollis*), the cuskpout (*Derepodichthys alepidotus*), and the biggored snailfish (*Paraliparis latifrons*)—though not taken between the northern and southern boundaries of the State—are included because each has been taken both north and south of California.

Of the 28 introduced species (referable to 23 genera and 17 families) not known to occur at present in California, 2 are marine, 6 are euryhaline, and 20 are freshwater.

The phyletic sequence of elasmobranchs is based on the advice of Leonard J. V. Compagno (personal communication, 19 May 1978); that of teleosts is based generally on the arrangement published by Greenwood et al. (*Bull. Amer. Mus. Nat. Hist.*, 1966, 131(4):339–456).

Scientific names used in this list conform to the provisions of the International Code of Zoological Nomenclature, 1964, and the amendments adopted by the Monaco (1972) Congress. Article 29d (adopted at Monaco) requires retention of a family-group name proposed before 1961 with an incorrectly formed stem if it is in general use. Should this article be repealed (see *Bull. Zool. Nomencl.*, 1977, 34(3):170), Cyemidae would be corrected to Cyematidae; Melanostomiidae, to Melanostomiidae; Oryziatidae, to Oryziidae; Stomiidae, to Stomiidae. Two family-group names, Petromyzontidae and Rhinodontidae, are now before the International Commission on Zoological Nomenclature for determination of their correct spelling.

Common names are generally those recognized by the American Fisheries Society and the California Department of Fish and Game.

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NATIVE AND INTRODUCED FISHES OF CALIFORNIA

(boldface = native; *italic* = introduced)

Branchiostomatidae. Lancelets

Branchiostoma californiense Andrews, 1893. California lancelet.

Myxinidae. Hagfishes

Eptatretus deani (Evermann & Goldsborough, 1907). Black hagfish.**Eptatretus** sp. White-edged hagfish.**Eptatretus stoutii** (Lockington, 1878). Pacific hagfish.**Myxine circifrons** Garman, 1899. Whiteface hagfish.**Myxine** sp. Bathybial hagfish.

Petromyzontidae. Lampreys

Lampetra ayresii (Günther, 1870). River lamprey.**Lampetra folletti** (Vladykov & Kott, 1976). Modoc brook lamprey.¹**Lampetra hubbsi** (Vladykov & Kott, 1976). Kern brook lamprey.¹**Lampetra lethophaga** Hubbs, 1971. Pit-Klamath brook lamprey.**Lampetra pacifica** Vladykov, 1973. Coastrange brook lamprey.¹**Lampetra richardsoni** Vladykov & Follett, 1965. Western brook lamprey.**Lampetra tridentata** (Gairdner, 1836, *in* Richardson). Pacific lamprey.

Chlamydoselachidae. Fricled Sharks

Chlamydoselachus anguineus Garman, 1884. Fricled shark.

Hexanchidae. Cow Sharks

Hexanchus griseus (Bonnaterre, 1788). Sixgill shark.**Notorynchus maculatus** Ayres, 1855. Sevengill shark.

Echinorhinidae. Bramble Sharks

Echinorhinus cookei Pietschmann, 1928. Prickly shark.

Squalidae. Dogfishes

Centroscyllum nigrum Garman, 1899. Pacific black dogfish.**Euprotomicrus bispinatus** (Quoy & Gaimard, 1824). Pygmy shark.**Somniosus pacificus** Bigelow & Schroeder, 1944. Pacific sleeper shark.**Squalus acanthias** Linnaeus, 1758. Spiny dogfish.**Squalus acanthias suckleyi** (Girard, 1854). Pacific spiny dogfish.

Squatinaidae. Angel Sharks

Squatina californica Ayres, 1859. Pacific angel shark.

Heterodontidae. Bullhead Sharks

Heterodontus francisci (Girard, 1854). Horned shark.

Rhinodontidae. Whale Sharks

Rhiniodon typus Smith, 1828. Whale shark.

Odontaspidae. Sand Tigers

Odontaspis ferox (Risso, 1810). Ragged-tooth shark.¹ The validity of localized forms is in need of critical appraisal.

Alopiidae. Thresher Sharks

- Alopias superciliosus* (Lowe, 1841). Bigeye thresher.
Alopias vulpinus (Bonnaterre, 1788). Pelagic thresher.

Cetorhinidae. Basking Sharks

- Cetorhinus maximus* (Gunnerus, 1765). Basking shark.

Lamnidae. Mackerel Sharks

- Carcharodon carcharias* (Linnaeus, 1758). White shark.
Isurus oxyrinchus Rafinesque, 1810. Shortfin mako (bonito shark).
Lamna ditropis Hubbs & Follett, 1947. Salmon shark.

Scyliorhinidae. Cat Sharks

- Apristurus brunneus* (Gilbert, 1892). Brown cat shark.
Apristurus kampae Taylor, 1972. Longnose cat shark.
Apristurus sp. White-edged cat shark.
Cephaloscyllium ventriosum (Garman, 1880). Swell shark.
Parmaturus sp.
Parmaturus xaniurus (Gilbert, 1892). Filetail cat shark.

Triakididae. Smoothhounds

- Galeorhinus zyopterus* Jordan & Gilbert, 1883. Soupfin shark.
Mustelus californicus Gill, 1864. Gray smoothhound.
Mustelus henlei (Gill, 1862). Brown smoothhound.
Mustelus lunulatus Jordan & Gilbert, 1882. Sicklefin smoothhound.
Triakis semifasciata Girard, 1854. Leopard shark.

Carcharhinidae. Requiem Sharks

- Carcharhinus brachyurus* (Günther, 1870). Narrowtooth shark.
Carcharhinus obscurus (Lesueur, 1818). Dusky shark.
Galeocerdo cuvier (Peron & Lesueur, 1822, *in* Lesueur). Tiger shark.
Prionace glauca (Linnaeus, 1758). Blue shark.
Rhizoprionodon longurio (Jordan & Gilbert, 1882). Pacific sharpnose shark.

Sphyrnidae. Hammerhead Sharks

- Sphyrna lewini* (Griffith & Smith, 1834, *in* Cuvier). Scalloped hammerhead.
Sphyrna tiburo (Linnaeus, 1758). Bonnethead.
Sphyrna zygaena (Linnaeus, 1758). Smooth hammerhead.

Rhinobatidae. Guitarfishes

- Rhinobatos productus* (Ayres, 1854). Shovelnose guitarfish.
Zapteryx exasperata (Jordan & Gilbert, 1880). Banded guitarfish.

Platyrrhinidae. Thornbacks

- Platyrrhinoidis triseriata* (Jordan & Gilbert, 1880). Thornback.

Rajidae. Skates

- Bathyraja abyssicola* (Gilbert, 1896). Deepsea skate.
Bathyraja kincaidii (Garman, 1908). Sandpaper skate.
Bathyraja spinosissima (Beebe & Tee-Van, 1941). White skate.
Bathyraja trachura (Gilbert, 1892). Black skate.
Raja binoculata Girard, 1854. Big skate.
Raja inornata Jordan & Gilbert, 1881. California skate.

Raja rhina Jordan & Gilbert, 1880. Longnose skate.

Raja stellulata Jordan & Gilbert, 1880. Starry skate.

Torpedinidae. Electric Rays

Torpedo californica Ayres, 1855. Pacific electric ray.

Dasyatididae. Stingrays

Dasyatis dipterura Jordan & Gilbert, 1880. Diamond stingray.

Dasyatis violacea (Bonaparte, 1832). Pelagic stingray.

Urolophidae. Round Stingrays

Urolophus halleri Cooper, 1863. Round stingray.

Gymnuridae. Butterfly Rays

Gymnura marmorata (Cooper, 1864). California butterfly ray.

Myliobatididae. Eagle Rays

Myliobatis californica Gill, 1865. Bat ray.

Mobulidae. Mantas

Manta birostris (Walbaum, 1792). Manta.

Mobula japonica (Müller & Henle, 1841). Spinetail mobula.

Mobula lucasana Beebe & Tee-Van, 1938. Smoothtail mobula.

Rhinochimaeridae. Longnose Chimaeras

Harriotta raleighana Goode & Bean, 1895. Longnose chimaera.

Chimaeridae. Chimaeras

Hydrolagus colliei (Lay & Bennett, 1839). Spotted ratfish.

Hydrolagus sp. Black ratfish.

Acipenseridae. Sturgeons

Acipenser medirostris Ayres, 1854. Green sturgeon.

Acipenser medirostris medirostris Ayres, 1854. American green sturgeon.

Acipenser transmontanus Richardson, 1836. White sturgeon.

Elopidae. Tenpounders

Elops affinis Regan, 1909. Machete.

Albulidae. Bonefishes

Albula vulpes (Linnaeus, 1758). Bonefish.

Muraenidae. Morays

Gymnothorax mordax (Ayres, 1859). California moray.

Nettastomatidae. Duckbill Eels

Facciolella gilbertii (Garman, 1899). Dogface witch eel.

Venefica procera (Goode & Bean, 1883). Shortnose witch eel.

Venefica tentaculata Garman, 1899. Longnose witch eel.

Muraenesocidae. Pike Congers

Xenomystax atrarius Gilbert, 1891. Twinpored eel.

Congridae. Conger Eels

Gnathophis catalinensis (Wade, 1946). Catalina conger.

Xenocoagridae. False Morays

Thalassenchelys coheni Castle & Raju, 1975. Leaflike eel.

Ophichthidae. Snake Eels

Myrichthys tigrinus Girard, 1859. Tiger snake eel.

Myrophis vafer Jordan & Gilbert, 1883. Pacific worm eel.

Ophichthus triserialis (Kaup, 1856). Pacific snake eel.

Ophichthus zophochir (Jordan & Gilbert, 1882). Yellow snake eel.

Derichthyidae. Neck Eels

Derichthys serpentinus Gill, 1884. Neck eel.

Serrivomeridae. Sawtooth Eels

Serrivomer samoensis Bauchot, 1959. Samoa sawtooth eel.

Serrivomer sector Garman, 1899. Sawtooth eel.

Nemichthyidae. Snipe Eels

Avocettinops bowersii (Garman, 1899). Smalleye snipe eel.

Avocettinops infans (Günther, 1878). Blackline snipe eel.

Nemichthys larseni Nielsen & Smith, 1978. Pale snipe eel.

Nemichthys scolopaceus Richardson, 1848. Brown snipe eel.

Cyemidae. Bobtail Eels

Cyema atrum Günther, 1878. Bobtail eel.

Eurypharyngidae. Umbrellamouth Gulpers

Eurypharynx pelecanooides Vaillant, 1882. Umbrellamouth gulper.

Saccopharyngidae. Whiptail Gulpers

Saccopharynx sp.

Monognathidae. Onejaws

Monognathus ahlstromi Raju, 1974. Paddletail onejaw.

Dussumieriidae. Round Herrings

Etrumeus acuminatus Gilbert, 1890. Pacific round herring.

Clupeidae. Herrings

Alosa sapidissima (Wilson, ca. 1811). American shad.

Clupea pallasii Valenciennes, 1847, *in* Cuvier & Valenciennes. Pacific herring.

Dorosoma petenense (Günther, 1867). Threadfin shad.

Harengula thrissina (Jordan & Gilbert, 1882). Flatiron herring.

Harengula thrissina thrissina (Jordan & Gilbert, 1882). Northern flatiron herring.

Opisthonema libertate (Günther, 1867). Deepbody thread herring.

Opisthonema medirastre Berry & Barrett, 1963. Middling thread herring.

Sardinops sagax (Jenyns, 1842). Pacific sardine (pilchard).

Sardinops sagax caeruleus (Girard, 1854). North Pacific sardine (pilchard).

Engraulididae. Anchovies

Anchoa compressa (Girard, 1858). Deepbody anchovy.

- Anchoa delicatissima* (Girard, 1854). Slough anchovy.
Cetengraulis mysticetus (Günther, 1867). Anchoveta.
Engraulis mordax Girard, 1854. Northern anchovy.
 Engraulis mordax mordax Girard, 1854. Ocean northern anchovy.
 Engraulis mordax nanus Girard, 1858. Bay northern anchovy.

Osmeridae. Smelts

- Allosmerus elongatus* (Ayres, 1854). Whitebait smelt.
Hypomesus nipponensis McAllister, 1963. Wakasagi.
Hypomesus pretiosus (Girard, 1854). Surf smelt.
Hypomesus transpacificus McAllister, 1963. Delta smelt.
Spirinchus starksi (Fisk, 1913). Night smelt.
Spirinchus thaleichthys (Ayres, 1860). Longfin smelt.
Thaleichthys pacificus (Richardson, 1836). Eulachon.

Coregonidae. Whitefishes

- Prosopium williamsoni* (Girard, 1856). Mountain whitefish.

Salmonidae. Trouts

- Oncorhynchus gorbuscha* (Walbaum, 1792). Pink salmon.
Oncorhynchus keta (Walbaum, 1792). Chum salmon.
Oncorhynchus kisutch (Walbaum, 1792). Coho salmon (silver salmon).
Oncorhynchus nerka (Walbaum, 1792). Sockeye salmon.¹
Oncorhynchus tshawytscha (Walbaum, 1792). Chinook salmon (king salmon).
Salmo aguabonita Jordan, 1893. Golden trout.
 Salmo aguabonita aguabonita Jordan, 1893. South Fork of Kern golden trout.
 Salmo aguabonita whitei Evermann, 1906. Little Kern golden trout.
Salmo clarkii Richardson, 1836. Cutthroat trout.
 Salmo clarkii clarkii Richardson, 1836. Coast cutthroat trout.
 Salmo clarkii henshawi Gill & Jordan, 1878, *in* Jordan. Lahontan cutthroat trout.
 Salmo clarkii pleuriticus Cope, 1872. Colorado River cutthroat trout.
 Salmo clarkii seleniris Snyder, 1933. Paiute cutthroat trout.
Salmo gairdnerii Richardson, 1836. Rainbow trout.
 Salmo gairdnerii aquilarum Snyder, 1917. Eagle Lake rainbow trout.
 Salmo gairdnerii gairdnerii Richardson, 1836. Steelhead rainbow trout.
 Salmo gairdnerii gilberti Jordan, 1894. Kern River rainbow trout.
Salmo sp. Redband trout.
Salmo trutta Linnaeus, 1758. Brown trout.
Salvelinus confluentus (Suckley, 1858). Bull trout.
Salvelinus fontinalis (Mitchill, 1815). Brook trout.
Salvelinus malma (Walbaum, 1792). Dolly Varden.
Salvelinus namaycush (Walbaum, 1792). Lake trout.
Thymallus arcticus (Pallas, 1776). Arctic grayling.

Argentinidae. Argentines

- Argentina sialis* Gilbert, 1890. Pacific argentine.
Microstoma microstoma (Risso, 1810). Dusky pencilsmelt.
Nansenia candida Cohen, 1958. Bluethroat argentine.
Nansenia crassa Lavenberg, 1965. Stout argentine.

¹ *Oncorhynchus nerka kenerlyi* (Suckley, 1861), known as kokanee, is regarded by some as a distinct subspecies.

Bathylagidae. Blacksmelts

- Bathylagus milleri* Jordan & Gilbert, 1898, *in* Jordan & Evermann. Robust black-smelt.
Bathylagus ochotensis Schmidt, 1938. Popeye blacksmelt.
Bathylagus pacificus Gilbert, 1890. Pacific blacksmelt.
Bathylagus wesethi Bolin, 1938. Snubnose blacksmelt.
Leuroglossus stilbius Gilbert, 1890. Smoothtongue.
Leuroglossus stilbius stilbius Gilbert, 1890. Southern smoothtongue.

Opisthoproctidae. Spookfishes

- Bathylechnops exilis* Cohen, 1958. Javelin spookfish.
Dolichopteryx longipes (Vaillant, 1888). Brownsnout spookfish.
Macropinna microstoma Chapman, 1939. Barreleye.
Opisthoproctus soleatus Vaillant, 1888. Shortnose flatironfish.

Gonostomatidae. Bristlemouths

- Cyclothone acclinidens* Garman, 1899. Benttooth bristlemouth.
Cyclothone alba Brauer, 1906. White bristlemouth.
Cyclothone atraria Gilbert, 1905. Black bristlemouth.
Cyclothone pallida Brauer, 1902. Tan bristlemouth.
Cyclothone pseudopallida Mukhacheva, 1964. Slender bristlemouth.
Cyclothone signata Garman, 1899. Showy bristlemouth.
Gonostoma atlanticum Norman, 1930. Atlantic fangjaw.

Sternoptychidae. Hatchetfishes

- Argyropelecus affinis* Garman, 1899. Slender hatchetfish.
Argyropelecus hemigymnus Cocco, 1829. Spurred hatchetfish.
Argyropelecus lychnus Garman, 1899. Tropical hatchetfish.
Argyropelecus sladeni Regan, 1908. Lowercrest hatchetfish.
Danaphos oculatus (Garman, 1899). Bottlelights.
Sternoptyx diaphana Hermann, 1781. Longspine hatchetfish.
Sternoptyx obscura Garman, 1899. Dusky hatchetfish.
Sternoptyx pseudobscura Baird, 1971. Highlight hatchetfish.
Sternoptyx sp.
Valenciennellus stellatus Garman, 1899. Constellationfish.

Photichthyidae. Lightfishes

- Ichthyococcus elongatus* Imai, 1941. Slim lightfish.
Ichthyococcus irregularis Rehnitz & Böhlke, 1958. Bulldog lightfish.
Vinciguerria lucetia (Garman, 1899). Panama lightfish.
Vinciguerria nimbaria (Jordan & Williams, 1895, *in* Jordan & Starks). Oceanic lightfish.
Vinciguerria poweriae (Cocco, 1838). Highseas lightfish.

Stomiidae. Scaly Dragonfishes

- Stomias atriventer* Garman, 1899. Blackbelly dragonfish.

Chauliodontidae. Viperfishes

- Chauliodus macouni* Bean, 1890. Pacific viperfish.

Astronesthidae. Snaggletooths

- Borostomias panamensis* Regan & Trewavas, 1929. Panama snaggletooth.
Neonesthes capensis (Gilchrist & Von Bonde, 1924). Shortnose snaggletooth.

Melanostomiidae. Scaleless Dragonfishes

- Bathophilus brevis* Regan & Trewavas, 1930. Deepbody dragonfish.
Bathophilus flemingi Aron & McCrery, 1958. Highfin dragonfish.
Flagellostomias boureei (Zugmayer, 1913). Threadbeard dragonfish.
Melanostomias valdiviae Brauer, 1902. Bluebeard dragonfish.
Opostomias mitsuui Imai, 1941. Pitgum dragonfish.
Photonectes margarita (Goode & Bean, 1896). Sooty dragonfish.
Tactostoma macropus Bolin, 1939. Longfin dragonfish.

Malacosteidae. Loosejaws

- Aristostomias scintillans* (Gilbert, 1915). Shiny loosejaw.
Malacosteus danae Regan & Trewavas, 1930. Shortnose loosejaw.

Idiacanthidae. Blackdragons

- Idiacanthus antrostomus* Gilbert, 1890. Pacific blackdragon.

Alepocephalidae. Slickheads

- Alepocephalus tenebrosus* Gilbert, 1892. California slickhead.
Bajacalifornia burraegi Townsend & Nichols, 1925. Sharpchin slickhead.
Ericara salmoneum Gill & Townsend, 1897. Deepsea slickhead.
Leptochilichthys agassizii Garman, 1899. Paperjaw.
Leptoderma lubricum Abe, Marumo & Kawaguchi, 1965. Wormlike slickhead.
Photostylus pycnopterus Beebe, 1933. Beaded slickhead.
Talismania bifurcata (Parr, 1951). Threadfin slickhead.

Searsiidae. Tubeshoulders

- Holthyrnia latifrons* Sazonov, 1976. Streaklight tubeshoulder.
Maulisia maui Parr, 1960. Pitted tubeshoulder.
Mirorictus tainingi Parr, 1947. Striped tubeshoulder.
Pellisulus facilis Parr, 1951. Goggle-eye tubeshoulder.
Sagamichthys abei Parr, 1953. Shining tubeshoulder.

Synodontidae. Lizardfishes

- Synodus lucioceps* (Ayes, 1855). California lizardfish.

Bathysauridae. Deepsea Lizardfishes

- Bathysaurus mollis* Günther, 1878. Highfin lizardfish.

Paralepididae. Barracudinas

- Lestidiops ringens* (Jordan & Gilbert, 1880). Slender barracudina.
Lestidiops sphyraenopsis Hubbs, 1916. Smalleye barracudina.
Macroparalepis johnfitchi (Rofen, [1960]). Black barracudina.
Macroparalepis macrura Ege, 1933. Sharpchin barracudina.
Notolepis risso (Bonaparte, 1840). Ribbon barracudina.
Paralepis atlantica Krøyer, 1868. Duckbill barracudina.
Paralepis atlantica atlantica Krøyer, 1868. Northern duckbill barracudina.

Alepisauridae. Lancetfishes

- Alepisaurus ferox* Lowe, 1833. Longnose lancetfish.

Anotopteridae. Daggertoosths

- Anotopterus pharao* Zugmayer, 1911. Daggertooth.

Scopelarchidae. Pearleyes

- Benthalbella dentata* (Chapman, 1939). Northern pearleye.
Rosenblattichthys volucris (Rofen, 1966). Chubby pearleye.
Scopelarchus analis (Brauer, 1902). Blackbelly pearleye.
Scopelarchus guentheri Alcock, 1896. Staring pearleye.

Notosudidae. Paperbones

- Scopelosaurus harryi* (Mead, 1953, *in* Mead & Taylor). Scaly paperbone.

Myctophidae. Lanternfishes

- Bolinichthys longipes* (Brauer, 1906). Popeye lampfish.
Centrobranchus brevirostris Becker, 1964. Roundnose lanternfish.
Ceratoscopelus townsendi (Eigenmann & Eigenmann, 1889). Dogtooth lampfish.
Diaphus anderseni Tåning, 1932. Lowlights headlightfish.
Diaphus theta Eigenmann & Eigenmann, 1890. California headlightfish.
Diaphus trachops Wisner, 1974. Rougheye headlightfish.
Diogenichthys atlanticus (Tåning, 1928). Longfin lanternfish.
Diogenichthys laternatus (Garman, 1899). Diogenes lanternfish.
Electrona risso (Cocco, 1829). Chubby flashlightfish.
Hygophum atratum (Garman, 1899). Thickhead lanternfish.
Hygophum reinhardtii (Lütken, 1892). Slender lanternfish.
Lampadena urophaos Paxton, 1963. Sunbeam lampfish.
Lampanyctus acanthurus Wisner, 1974. Spinytail lampfish.
Lampanyctus jordani Gilbert, 1913. Brokenline lampfish.
Lampanyctus niger (Günther, 1887). Sooty lampfish.
Lampanyctus regalis (Gilbert, 1892). Pinpoint lampfish.
Lampanyctus ritteri Gilbert, 1915. Broadfin lampfish.
Lampanyctus sp. Handless lampfish.
Lampanyctus steinbecki Bolin, 1939. Longfin lampfish.
Loweina rara (Lütken, 1892). Dwarf lanternfish.
Myctophum nitidulum Garman, 1899. Pearly lanternfish.
Notolychnus valdiviae (Brauer, 1904). Topside lampfish.
Notoscopelus resplendens (Richardson, 1845). Patchwork lampfish.
Parvilux ingens Hubbs & Wisner, 1964. Giant lampfish.
Protomyctophum crockeri (Bolin, 1939). California flashlightfish.
Protomyctophum thompsoni (Chapman, 1944). Northern flashlightfish.
Stenobranchius leucopsarus (Eigenmann & Eigenmann, 1890). Northern lampfish.
Stenobranchius nannochir (Gilbert, 1890). Garnet lampfish.
Symbolophorus californiensis (Eigenmann & Eigenmann, 1889). California lanternfish.
Taaningichthys bathyphilus (Tåning, 1928). Black lampfish.
Taaningichthys paurolychnus Davy, 1972. Dimlight lampfish.
Tarletonbeania crenularis (Jordan & Gilbert, 1880). Blue lanternfish.
Triphoturus mexicanus (Gilbert, 1890). Mexican lampfish.

Neoscopelidae. Blackchins

- Scopelengys tristis* Alcock, 1890. Pacific blackchin.

Cetomimidae. Flabby Whalefishes

- Cetomimus* sp. Largemouth flabby whalefish.
Cetostoma regani Zugmayer, 1914. Pink flabby whalefish.

Barbourisiidae. Velvet Whalefishes

- Barbourisia rufa* Parr, 1945. Velvet whalefish.

Rondeletiidae. Redmouth Whalefishes

Rondeletia loricata Abe & Hotta, 1963. Armored redmouth whalefish.

Eutaeniophoridae. Ribbontails

Eutaeniophorus festivus (Bertelsen & Marshall, 1956). Festive ribbontail.

Giganturidae. Telescopefishes

Rosaura lisae (Walters, 1961). Pacific telescopefish.

Cyprinidae. Minnows

Carassius auratus (Linnaeus, 1758). Goldfish.

Cyprinus carpio Linnaeus, 1758. Carp.

Endemichthys grandipinnis Hopkirk, [1974]. Clear Lake minnow.¹

Gila bicolor (Girard, 1856). Tui chub.

Gila bicolor bicolor (Girard, 1856). Klamath Lake tui chub.

Gila bicolor mohavensis (Snyder, 1918). Mohave tui chub.

Gila bicolor obesa (Girard, 1856). Lahontan creek tui chub.

Gila bicolor pectinifer (Snyder, 1917). Lahontan lake tui chub.

Gila bicolor snyderi Miller, 1973. Owens tui chub.

Gila bicolor subsp. Cowhead Lake tui chub.

Gila bicolor subsp. Hat Creek tui chub.

Gila bicolor subsp. Klamath stream tui chub.

Gila bicolor subsp. Pit River tui chub.

Gila bicolor thalassina (Cope, 1883). Goose Lake tui chub.

Gila coerulea (Girard, 1856). Blue chub.

Gila crassicauda (Baird & Girard, 1854, *in* Girard). Thicktail chub.

Gila elegans Baird & Girard, 1853. Bonytail.

Gila orcuttii (Eigenmann & Eigenmann, 1890). Arroyo chub.

Hesperoleucus symmetricus (Baird & Girard, 1854, *in* Girard). California roach.

Hesperoleucus symmetricus mitrulus Snyder, 1913. Upper Pit roach.

Hesperoleucus symmetricus navarroensis Snyder, 1913. Navarro roach.

Hesperoleucus symmetricus parvipinnis Snyder, 1913. Gualala roach.

Hesperoleucus symmetricus subditus Snyder, 1913. Monterey roach.

Hesperoleucus symmetricus symmetricus Baird & Girard, 1854, *in* Girard. Sacramento roach.

Hesperoleucus symmetricus venustus Snyder, 1913. Venus roach.

Lavinia exilicauda Baird & Girard, 1854, *in* Girard. Hitch.

Lavinia exilicauda chi Hopkirk, [1974]. Clear Lake hitch.

Lavinia exilicauda exilicauda Baird & Girard, 1854, *in* Girard. Sacramento hitch.

Lavinia exilicauda harengus Girard, 1856. Monterey hitch.

Mylopharodon conocephalus (Baird & Girard, 1854, *in* Girard). Hardhead.

Notemigonus crysoleucas (Mitchill, 1814). Golden shiner.

Notropis lutrensis (Baird & Girard, 1853). Red shiner.

Orthodon microlepidotus (Ayres, 1854). Sacramento blackfish.

Pimephales promelas Rafinesque, 1820. Fathead minnow.

Plagopterus argentissimus Cope, 1874. Silver dace (woundfin).

Pogonichthys ciscooides Hopkirk, [1974]. Clear Lake splittail.

Pogonichthys macrolepidotus (Ayres, 1854). Sacramento splittail.

Ptychocheilus grandis (Ayres, 1854). Sacramento squawfish.

¹ The generic allocation is being reconsidered (John D. Hopkirk, personal communication, 1 December 1978).

Ptychocheilus lucius Girard, 1856. Colorado River squawfish.

Rhinichthys osculus (Girard, 1856). Speckled dace.

Rhinichthys osculus klamathensis (Evermann & Meek, 1898). Klamath speckled dace.

Rhinichthys osculus nevadensis Gilbert, 1893. Amargosa speckled dace.

Rhinichthys osculus robustus (Rutter, 1903). Lahontan speckled dace.

Rhinichthys osculus subsp. Santa Ana speckled dace.

Richardsonius egregius (Girard, 1858). Lahontan redbelly.

Tinca tinca (Linnaeus, 1758). Tench.

Catostomidae. Suckers

Catostomus fumeiventris Miller, 1973. Owens sucker.

Catostomus latipinnis Baird & Girard, 1853. Flannelmouth sucker.

Catostomus luxatus (Cope, 1879). Lost River sucker.

Catostomus microps Rutter, 1908. Modoc sucker.

Catostomus occidentalis Ayres, 1854. California sucker¹.

Catostomus occidentalis humboldtianus Snyder, 1908. Humboldt sucker.

Catostomus occidentalis mniotiltus Snyder, 1913. Monterey sucker.

Catostomus occidentalis occidentalis Ayres, 1854. Sacramento sucker.

Catostomus occidentalis subsp. Marin sucker.

Catostomus platyrhynchus (Cope, 1874). Mountain sucker.

Catostomus rimiculus Gilbert & Snyder, 1898, *in* Gilbert. Klamath smallscale sucker.

Catostomus santaanae (Snyder, 1908). Santa Ana sucker.

Catostomus snyderi Gilbert, 1898. Klamath largescale sucker.

Catostomus sp. Surprise Valley sucker.

Catostomus tahoensis Gill & Jordan, 1878, *in* Jordan. Tahoe sucker.

Chasmistes brevirostris Cope, 1879. Shortnose sucker.

Ictiobus cyprinella (Valenciennes, 1844, *in* Cuvier & Valenciennes). Bigmouth buffalo.

Xyrauchen texanus (Abbott, 1860). Humpback sucker.

Cobitidae. Loaches

Misgurnus anguillicaudatus (Cantor, 1842). Oriental weatherfish.

Ictaluridae. North American Freshwater Catfishes

Ictalurus catus (Linnaeus, 1758). White catfish.

Ictalurus furcatus (Lesueur, 1840, *in* Cuvier & Valenciennes). Blue catfish.

Ictalurus melas (Rafinesque, 1820). Black bullhead.

Ictalurus natalis (Lesueur, 1819). Yellow bullhead.

Ictalurus nebulosus (Lesueur, 1819). Brown bullhead.

Ictalurus punctatus (Rafinesque, 1818). Channel catfish.

Pylodictis olivaris (Rafinesque, 1818). Flathead catfish.

Ariidae. Sea Catfishes

Bagre panamensis (Gill, 1863). Chihuail.

Batrachoididae. Toadfishes

Porichthys myriaster Hubbs & Schultz, 1939. Specklefin midshipman.

Porichthys notatus Girard, 1854. Plainfin midshipman.

¹ The sucker of Goose Lake, Modoc County, is regarded by some as a distinct subspecies, *Catostomus occidentalis lacusanserinus* Fowler, 1913.

Gobiesocidae. Clingfishes

- Gobiesox eugrammus* Briggs, 1955. Lined clingfish.
Gobiesox maeandricus (Girard, 1858). Northern clingfish.
Gobiesox papillifer Gilbert, 1890. Bearded clingfish.
Gobiesox rhessodon Smith, 1881. California clingfish.
Rimicola dimorpha Briggs, 1955. Southern clingfish.
Rimicola eigenmanni (Gilbert, 1890). Slender clingfish.
Rimicola muscarum (Meek & Pierson, 1895). Kelp clingfish.

Lophiidae. Goosefishes

- Lophiodes spilurus* (Garman, 1899). Threadfin goosefish.

Antennariidae. Frogfishes

- Antennarius avalonis* Jordan & Starks, 1907. Roughjaw frogfish.

Ogcocephalidae. Batfishes

- Zalieutes elater* (Jordan & Gilbert, 1882). Spotted batfish.

Caulophrynididae. Fanfins

- Caulophryne jordani* Goode & Bean, 1896. Fanfin.

Melanocetidae. Blackdevils

- Melanocetus johnsonii* Günther, 1864. Blackdevil.

Oneirodidae. Dreamers

- Bertella idiomorpha* Pietsch, 1973. Spikehead dreamer.
Chaenophryne draco Beebe, 1932. Smoothhead dreamer.
Dolopichthys longicornis Parr, 1927. Longhorn dreamer.
Lophodolos acanthognathus (Regan, 1925). Whalehead dreamer.
Oneirodes acanthias (Gilbert, 1915). Spiny dreamer.
Oneirodes basili Pietsch, 1974. Ladlepole dreamer.
Oneirodes eschrichtii Lütken, 1871. Twopole dreamer.

Ceratiidae. Seadevils

- Ceratias holbolli* Krøyer, 1845. Northern giant seadevil.
Cryptoparasarous couesii Gill, 1883. Triplewart seadevil.

Gigantactinidae. Whipnoses

- Gigantactis macronema* Regan, 1925. Longpole whipnose.
Gigantactis vanhoeffeni Brauer, 1902.

Melanonidae. Arrowtails

- Melanonus zugmayeri* Norman, 1930. Arrowtail.

Moridae. Codlings

- Antimora microlepis* Bean, 1890. Pacific flatnose (finescale codling).
Physiculus rastrelliger Gilbert, 1890. Hundred-fathom codling.

Gadidae. Cods

- Gadus macrocephalus* Tilesius, 1810. Pacific cod.
Microgadus proximus (Girard, 1854). Pacific tomcod.
Theragra chalcogramma (Pallas, [1814]). Walleye pollock.

Merlucciidae. Hakes

- Merluccius productus* (Ayres, 1855). Pacific hake.
Merluccius sp. Dwarf hake.

Macrouridae. Grenadiers¹

- Albatrossia pectoralis* (Gilbert, 1892). Giant grenadier.
Coelorinchus scaphopsis (Gilbert, 1890). Shoulderspot grenadier.
Coryphaenoides acrolepis (Bean, 1884). Pacific grenadier.
Coryphaenoides armatus (Hector, 1875). Abyssal grenadier.
Coryphaenoides filifer (Gilbert, 1896). Threadfin grenadier.
Coryphaenoides leptolepis Günther, 1877. Ghostly grenadier.
Malacocephalus laevis (Lowe, 1843). Velvet grenadier.
Mesobius berryi Hubbs & Iwamoto, 1977. Midwater grenadier.
Nezumia liolepis (Gilbert, 1890). Smooth grenadier.
Nezumia stelgidolepis (Gilbert, 1890). California grenadier.

Ophidiidae. Cusk-eels

- Chilara taylori* (Girard, 1858). Spotted cusk-eel.
Dicrolene filamentosa Garman, 1899. Threadfin cusk-eel.
Lamprogrammus niger Alcock, 1891, *in* Wood-Mason & Alcock. Paperbone cusk-eel.
Ophidion scrippsi (Hubbs, 1916). Basketweave cusk-eel.
Parabassogigas grandis (Günther, 1877). Giant cusk-eel.

Bythitidae. Livebearing Brotulas

- Brosomphycis marginata* (Ayres, 1854). Red brotula.
Cataetx rubrirostris Gilbert, 1890. Rubynose brotula.
Oligopus diagraphmus (Heller & Snodgrass, 1903). Purple brotula.

Zoarcidae. Eelpouts

- Aprodon cortezianus* Gilbert, 1890. Bigfin eelpout.
Bothrocara brunneum (Bean, 1890). Twoline eelpout.
Bothrocara molle Bean, 1890. Soft eelpout.
Bothrocara remigerum Gilbert, 1915. Longfin eelpout.
Embryx crassilabris (Gilbert, 1890). Thicklip eelpout.
Embryx crotalinus (Gilbert, 1890). Snakehead eelpout.
Embryx parallelus Gilbert, 1915. Flatcheek eelpout.
Lycenchelys camchatica (Gilbert & Burke, 1912). Kamchatka eelpout.
Lycenchelys jordani (Evermann & Goldsborough, 1907). Shortjaw eelpout.
Lycodapus dermatinus Gilbert, 1896. Looseskin eelpout.
Lycodapus endemoscotus Peden & Anderson, 1978. Deepwater eelpout.
Lycodapus fierasfer Gilbert, 1890. Blackmouth eelpout.
Lycodapus mandibularis Gilbert, 1915. Pallid eelpout.
Lycodes diapterus Gilbert, 1892. Black eelpout.
Lycodes diapterus diapterus Gilbert, 1892. Southern black eelpout.
Lycodes sp.
Lycodes sp.
Lycodopsis pacifica (Collett, 1879). Blackbelly eelpout.
Lyconeca barbatum Gilbert, 1896. Bearded eelpout.
Maynea californica Starks & Mann, 1911. Persimmon eelpout.
Melanostigma pammelas Gilbert, 1896. Midwater eelpout.

¹ Species of this family have also been called rattails.

Derepodichthyidae. Cuskpouts

Derepodichthys alepidotus Gilbert, 1896. Cuskpout.

Scomberesocidae. Sauries

Cololabis saira (Brevoort, 1857). Pacific saury.

Belonidae. Needlefishes

Strongylura exilis (Girard, 1854). California needlefish.

Hemiramphidae. Halfbeaks

Euleptorhamphus longirostris (Cuvier, 1829). Ribbon halfbeak.

Hemiramphus saltator Gilbert & Starks, 1904. Longfin halfbeak.

Hyporhamphus rosae (Jordan & Gilbert, 1880). California halfbeak.

Hyporhamphus unifasciatus (Ranzani, 1842). Silverstripe halfbeak.

Exocoetidae. Flyingfishes

Cypselurus californicus (Cooper, 1863). California flyingfish.

Cypselurus hubbsi Parin, 1961. Blotchwing flyingfish.

Fodiator acutus (Valenciennes, [1847], *in* Cuvier & Valenciennes). Sharpchin flyingfish.

Fodiator acutus rostratus (Günther, 1866). Pacific sharpchin flyingfish.

Cyprinodontidae. Killifishes

Cyprinodon macularius Baird & Girard, 1853. Desert pupfish.

Cyprinodon macularius californiensis Girard, 1859. Salton pupfish.

Cyprinodon milleri LaBounty & Deacon, 1972. Cottonball Marsh pupfish.

Cyprinodon nevadensis Eigenmann & Eigenmann, 1889. Death Valley pupfish.

Cyprinodon nevadensis amargosae Miller, 1948. Amargosa pupfish.

Cyprinodon nevadensis calidae Miller, 1948. Tecopa pupfish.

Cyprinodon nevadensis nevadensis Eigenmann & Eigenmann, 1889. Saratoga Springs pupfish.

Cyprinodon nevadensis shoshone Miller, 1948. Shoshone pupfish.

Cyprinodon radiosus Miller, 1948. Owens pupfish.

Cyprinodon salinus Miller, 1943. Salt Creek pupfish.

Fundulus parvipinnis Girard, 1854. California killifish.

Fundulus parvipinnis parvipinnis Girard, 1854. Southern California killifish.

Lucania parva (Baird & Girard, 1855, *in* Baird). Rainwater killifish.

Poeciliidae. Livebearers

Gambusia affinis (Baird & Girard, 1853). Mosquitofish.

Poecilia latipinna (Lesueur, 1821). Sailfin molly.

Poecilia mexicana Steindachner, 1863. Shortfin molly.

Poeciliopsis gracilis (Heckel, 1848). Porthole livebearer.

Poeciliopsis occidentalis (Baird & Girard, 1853). Gila topminnow.

Atherinidae. Silversides

Atherinops affinis (Ayres, 1860). Topsmelt.

Atherinops affinis affinis (Ayres, 1860). San Francisco topsmelt.

Atherinops affinis cedrosensis Hubbs, 1918. Kelp topsmelt.

Atherinops affinis insularum Gilbert, 1892. Island topsmelt.

Atherinops affinis littoralis Hubbs, 1918. Bay topsmelt.

Atherinopsis californiensis Girard, 1854. Jacksmelt.

Leuresthes tenuis (Ayres, 1860). California grunion.

Menidia audens Hay, 1882. Mississippi silverside.

Melamphaidae. Bigscales

- Melamphaes acanthomus* Ebeling, 1962. Shoulderspine bigscale.
Melamphaes longivelis Parr, 1933. Longfin bigscale.
Melamphaes lugubris Gilbert, 1890. Highsnout bigscale.
Melamphaes parvus Ebeling, 1962. Little bigscale.
Poromitra crassiceps (Günther, 1878). Crested bigscale.
Poromitra oscitans Ebeling, 1975. Sluggish bigscale.
Scopeloberyx robustus (Günther, 1887). Longjaw bigscale.
Scopelogadus hispidus (Gilbert, 1915). Twospine bigscale.

Anoplogastridae. Fangtooths

- Anoplogaster cornuta* (Valenciennes, 1833, *in* Cuvier & Valenciennes). Fangtooth.

Zeidae. Dories

- Zenopsis nebulosa* (Temminck & Schlegel, 1845, *in* Siebold). Mirror dory.

Oreosomatidae. Oreos

- Alloctytus folletti* Myers, 1960. Oxeye oreo.

Lamprididae. Opahs

- Lampris guttatus* (Brünnich, 1788). Opah.

Trachipteridae. Ribbonfishes

- Desmodema lorum* Rosenblatt & Butler, 1977. Whiptail ribbonfish.
Trachipterus altivelis Kner, 1859. King-of-the-salmon.
Trachipterus fukuzakii Fitch, 1964. Tapertail ribbonfish.
Zu cristatus (Bonelli, 1820). Scalloped ribbonfish.

Regalecidae. Oarfishes

- Regalecus glesne* Ascanius, 1772. Oarfish.

Lophotidae. Crestfishes

- Lophotus lacepede* Giorna, 1809. Crestfish.

Gasterosteidae. Sticklebacks

- Gasterosteus aculeatus* Linnaeus, 1758. Threespine stickleback.
Gasterosteus aculeatus aculeatus Linnaeus, 1758. Armored threespine stickleback.
Gasterosteus aculeatus microcephalus Girard, 1854. Semiarmored threespine stickleback.
Gasterosteus aculeatus williamsoni Girard, 1854. Unarmored threespine stickleback.

Aulorhynchidae. Tubesnouts

- Aulorhynchus flavidus* Gill, 1861. Tubesnout.

Macroramphosidae. Snipefishes

- Macroramphosus gracilis* (Lowe, 1839). Slender snipefish.

Syngnathidae. Pipefishes

- Hippocampus ingens* Girard, 1858. Pacific seahorse.
Syngnathus arctus (Jenkins & Evermann, 1889). Snubnose pipefish.

- Syngnathus auliscus* (Swain, 1882). Barred pipefish.
Syngnathus californiensis Storer, 1845. Kelp pipefish.
Syngnathus exilis (Osburn & Nichols, 1916). Slim pipefish.
Syngnathus leptorhynchus Girard, 1854. Bay pipefish.
 Syngnathus leptorhynchus barbarae Swain, 1884, *in* Swain & Meek. Central bay pipefish.
 Syngnathus leptorhynchus griseolineatus Ayres, 1854. Northern bay pipefish.
 Syngnathus leptorhynchus leptorhynchus Girard, 1854. Southern bay pipefish.
Syngnathus punctipinnis (Gill, 1862). Spotfin pipefish.
Syngnathus sp.

Scorpaenidae. Scorpionfishes

- Scorpaena guttata* Girard, 1854. California scorpionfish (sculpin).
 Scorpaena guttata guttata Girard, 1854. Southern California scorpionfish (sculpin).
Scorpaenodes xyris (Jordan & Gilbert, 1882). Rainbow scorpionfish.
Sebastes aleutianus (Jordan & Evermann, 1898). Rougheyeye rockfish.
Sebastes alutus (Gilbert, 1890). Longjaw rockfish (Pacific ocean perch).
Sebastes atrorubens (Gilbert, 1898, *in* Jordan & Evermann). Roundhead rockfish.
Sebastes atrovirens (Jordan & Gilbert, 1880). Kelp rockfish.
Sebastes auriculatus Girard, 1854. Brown rockfish.
Sebastes aurora (Gilbert, 1890). Aurora rockfish.
Sebastes babcocki (Thompson, 1915). Redbanded rockfish.
Sebastes borealis Barsukov, 1970. Shortraker rockfish.
Sebastes brevispinis (Bean, 1884). Silvergray rockfish.
Sebastes carnatus (Jordan & Gilbert, 1880). Gopher rockfish.
Sebastes caurinus Richardson, 1845. Copper rockfish.
Sebastes chlorostictus (Jordan & Gilbert, 1880). Greenspotted rockfish.
Sebastes chrysomelas (Jordan & Gilbert, 1881). Black-and-yellow rockfish.
Sebastes constellatus (Jordan & Gilbert, 1880). Starry rockfish.
Sebastes crameri (Jordan, 1897, *in* Gilbert). Darkblotched rockfish.
Sebastes dallii (Eigenmann & Beeson, 1894). Calico rockfish.
Sebastes diploproa (Gilbert, 1890). Splitnose rockfish.
Sebastes elongatus Ayres, 1859. Greenstriped rockfish.
Sebastes emphaeus (Starks, 1911). Puget Sound rockfish.
Sebastes ensifer Chen, 1971. Swordspine rockfish.
Sebastes entomelas (Jordan & Gilbert, 1880). Widow rockfish.
Sebastes eos (Eigenmann & Eigenmann, 1890). Pink rockfish.
Sebastes flavidus (Ayres, 1863). Yellowtail rockfish.
Sebastes gilli (Eigenmann, 1891). Bronzespotted rockfish.
Sebastes goodei (Eigenmann & Eigenmann, 1890). Chilipepper.
Sebastes helvomaculatus Ayres, 1859. Rosethorn rockfish.
Sebastes hopkinsi (Cramer, 1895). Squarespot rockfish.
Sebastes jordani (Gilbert, 1896). Shortbelly rockfish.
Sebastes lentiginosus Chen, 1971. Freckled rockfish.
Sebastes levis (Eigenmann & Eigenmann, 1889). Cow rockfish (cowcod).
Sebastes macdonaldi (Eigenmann & Beeson, 1893). Mexican rockfish.
Sebastes maliger (Jordan & Gilbert, 1880). Quillback rockfish.
Sebastes melanops Girard, 1856. Black rockfish.
Sebastes melanostomus (Eigenmann & Eigenmann, 1890). Blackgill rockfish.
Sebastes miniatus (Jordan & Gilbert, 1880). Vermilion rockfish.
Sebastes mystinus (Jordan & Gilbert, 1881). Blue rockfish.

- Sebastes nebulosus* Ayres, 1854. China rockfish.
Sebastes nigrocinctus Ayres, 1859. Tiger rockfish.
Sebastes ovalis (Ayres, 1863). Speckled rockfish.
Sebastes paucispinis Ayres, 1854. Bocaccio.
Sebastes phillipsi (Fitch, 1964). Chameleon rockfish.
Sebastes pinniger (Gill, 1864). Canary rockfish.
Sebastes proriger (Jordan & Gilbert, 1880). Redstripe rockfish.
Sebastes rastrelliger (Jordan & Gilbert, 1880). Grass rockfish.
Sebastes reedi (Westrheim & Tsuyuki, 1967). Yellowmouth rockfish.
Sebastes rosaceus Girard, 1854. Rosy rockfish.
Sebastes rosenblatti Chen, 1971. Greenblotched rockfish.
Sebastes ruberrimus (Cramer, 1895). Yelloweye rockfish.
Sebastes rubrivinctus (Jordan & Gilbert, 1880). Flag rockfish.
Sebastes rufinanus Lea & Fitch, 1972. Dwarf-red rockfish.
Sebastes rufus (Eigenmann & Eigenmann, 1890). Bank rockfish.
Sebastes saxicola (Gilbert, 1890). Stripetail rockfish.
Sebastes semicinctus (Gilbert, 1897). Halfbanded rockfish.
Sebastes serranoides (Eigenmann & Eigenmann, 1890). Olive rockfish.
Sebastes serriceps (Jordan & Gilbert, 1880). Treefish.
Sebastes simulator Chen, 1971. Pinkrose rockfish.
Sebastes sp. Semaphore rockfish.
Sebastes sp.
Sebastes umbrosus (Jordan & Gilbert, 1882). Honeycomb rockfish.
Sebastes vexillaris (Jordan & Gilbert, 1880). Whitebelly rockfish.
Sebastes wilsoni (Gilbert, 1915). Pygmy rockfish.
Sebastes zacentrus (Gilbert, 1890). Sharpchin rockfish.
Sebastolobus alascanus Bean, 1890. Shortspine thornyhead.
Sebastolobus altivelis Gilbert, 1896. Longspine thornyhead.

Triglidae. Searobins

- Bellator xenisma* (Jordan & Bollman, 1890). Splitnose searobin.
Prionotus stephanophrys Lockington, 1881. Lumptail searobin.

Hexagrammidae. Greenlings

- Hexagrammos decagrammus* (Pallas, 1810). Kelp greenling.
Hexagrammos lagocephalus (Pallas, 1810). Rock greenling.
Hexagrammos lagocephalus superciliosus (Pallas, 1810). American rock greenling.
Ophiodon elongatus Girard, 1854. Lingcod.
Oxylebius pictus Gill, 1862. Painted greenling.
Pleurogrammus monoptyerigi (Pallas, 1810). Atka-mackerel.

Anoplopomatidae. Sablefishes

- Anoplopoma fimbria* (Pallas, [1814]). Sablefish (blackcod).
Erilepis zonifer (Lockington, 1880). Skiffish.

Zaniolepididae. Combfishes

- Zaniolepis frenata* Eigenmann & Eigenmann, 1889. Shortspine combfish.
Zaniolepis latipinnis Girard, 1857. Longspine combfish.

Cottidae. Sculpins

- Artedius corallinus* (Hubbs, 1926). Coralline sculpin.
Artedius creaseri (Hubbs, 1926). Roughcheek sculpin.

- Artedius fenestralis* (Jordan & Gilbert, 1883). Padded sculpin.
Artedius harringtoni (Starks, 1896). Scalyhead sculpin.
Artedius lateralis (Girard, 1854). Smoothhead sculpin.
Artedius meanyi (Jordan & Starks, 1895). Puget Sound sculpin.
Artedius notospilotus Girard, 1856. Bonehead sculpin.
Ascelichthys rhodorus Jordan & Gilbert, 1880. Rosylip sculpin.
Blepsias cirrhosus (Pallas, [1814]). Silverspotted sculpin.
Chitonotus pugetensis (Steindachner, 1876). Roughback sculpin.
Clinocottus acuticeps (Gilbert, 1896). Sharpnose sculpin.
Clinocottus analis (Girard, 1857). Woolly sculpin.
 Clinocottus analis analis (Girard, 1857). Northern woolly sculpin.
 Clinocottus analis australis Hubbs, 1926. Tidepool woolly sculpin.
Clinocottus embryum (Jordan & Starks, 1895). Calico sculpin.
Clinocottus globiceps (Girard, 1857). Mosshead sculpin.
Clinocottus recalvus (Greeley, 1899). Bald sculpin.
Clinocottus saburrae (Starks & Mann, 1911). Sandpaper sculpin.
Cottus aleuticus Gilbert, 1896. Coastrange sculpin.
Cottus asper Richardson, 1836. Prickly sculpin.
 Cottus asper asper Richardson, 1836. Freshwater prickly sculpin.
 Cottus asper parvus (Girard, 1854). Coastal prickly sculpin.
Cottus asperrimus Rutter, 1908. Rough sculpin.
Cottus beldingii Eigenmann & Eigenmann, 1891. Paiute sculpin.
Cottus gulosus (Girard, 1854). Riffle sculpin.
Cottus klamathensis Gilbert, 1898. Marbled sculpin.
Cottus perplexus Gilbert & Evermann, 1894. Reticulate sculpin.
Cottus pitensis Bailey & Bond, 1963. Pit sculpin.
Enophrys bison (Girard, 1854). Buffalo sculpin.
Enophrys taurina Gilbert, 1914. Bull sculpin.
Hemilepidotus hemilepidotus (Tilesius, 1811). Red Irish lord.
Hemilepidotus spinosus Ayres, 1854. Brown Irish lord.
Icelinus burchami Evermann & Goldsborough, 1907. Dusky sculpin.
Icelinus cavifrons Gilbert, 1890. Pithead sculpin.
Icelinus filamentosus Gilbert, 1890. Threadfin sculpin.
Icelinus fimbriatus Gilbert, 1890. Fringed sculpin.
Icelinus oculatus Gilbert, 1890. Frogmouth sculpin.
Icelinus quadriseriatus (Lockington, 1880). Yellowchin sculpin.
Icelinus sp. Parasol sculpin.
Icelinus tenuis Gilbert, 1890. Spotfin sculpin.
Jordania zonope Starks, 1895. Longfin sculpin.
Leiocottus hirundo Girard, 1856. Lavender sculpin.
Leptocottus armatus Girard, 1854. Pacific staghorn sculpin.
 Leptocottus armatus armatus Girard, 1854. Northern Pacific staghorn sculpin.
 Leptocottus armatus australis Hubbs, 1921. Southern Pacific staghorn sculpin.
Nautichthys oculoasciatus (Girard, 1857). Sailfin sculpin.
Oligocottus maculosus Girard, 1856. Tidepool sculpin.
Oligocottus rimensis (Greeley, 1899). Saddleback sculpin.
Oligocottus rubellio (Greeley, 1899). Rosy sculpin.
Oligocottus snyderi Jordan & Evermann, 1898. Fluffy sculpin.
Orthonopias triacis Starks & Mann, 1911. Snubnose sculpin.
Paricelinus hopliticus Eigenmann & Eigenmann, 1889. Thornback sculpin.
Psychrolutes phrictus Stein & Bond, 1978. Blob sculpin.
Radulinus asprellus Gilbert, 1890. Slim sculpin.
Radulinus boleoides Gilbert, 1898, *in* Jordan & Evermann. Darter sculpin.

Radulinus vinculus Bolin, 1950. Smoothgum sculpin.
Scorpaenichthys marmoratus Girard, 1854. Cabezon.
Synchirus gilli Bean, 1890. Manacled sculpin.
Zesticelus profundorum (Gilbert, 1896). Flabby sculpin.

Rhamphocottidae. Grunt Sculpins

Rhamphocottus richardsonii Günther, 1874. Grunt sculpin.

Agonidae. Poachers

Agonomalus mozinoi Wilimovsky & Wilson, 1979. Kelp poacher.
Agonopsis sterletus (Gilbert, 1898, *in* Jordan & Evermann). Southern spearnose.
Agonopsis vulsa (Jordan & Gilbert, 1880). Northern spearnose.
Anoplagonus inermis (Günther, 1860). Smooth alligatorfish.
Bathyagonus alascanus (Gilbert, 1896). Gray starsnout.
Bathyagonus infraspinus (Gilbert, 1904). Spinycheek starsnout.
Bathyagonus nigripinnis Gilbert, 1890. Blackfin starsnout.
Bathyagonus pentacanthus (Gilbert, 1890). Bigeye starsnout.
Bothragonus swanii (Steindachner, 1876). Rockhead.
Ocella verrucosa (Lockington, 1880). Warty poacher.
Odontopyxis trispinosa Lockington, 1880. Pygmy poacher.
Pallasina barbata (Steindachner, 1876). Tubenose poacher.
Pallasina barbata aix Starks, 1896. Southern tubenose poacher.
Podothecus acipenserinus (Pallas, 1813, *in* Tilesius). Sturgeon poacher.
Stellerina xyosterna (Jordan & Gilbert, 1880). Pricklebreast poacher.
Xeneretmus latifrons (Gilbert, 1890). Blackedge poacher.
Xeneretmus leiops Gilbert, 1915. Smootheye poacher.
Xeneretmus ritteri Gilbert, 1915. Flagfin poacher.
Xeneretmus triacanthus (Gilbert, 1890). Bluespotted poacher.

Liparididae. Snailfishes

Acantholiparis opercularis Gilbert & Burke, 1912. Spiny snailfish.
Careproctus gilberti Burke, 1912. Smalldisk snailfish.
Careproctus longifilis Garman, 1892. Threadfin snailfish.
Careproctus melanurus Gilbert, 1892. Blacktail snailfish.
Careproctus osborni (Townsend & Nichols, 1925). Pink snailfish.
Careproctus sp. Chubby snailfish.
Elassodiscus caudatus (Gilbert, 1915). Humpback snailfish.
Liparis florum (Jordan & Starks, 1895). Tidepool snailfish.
Liparis fucensis Gilbert, 1895, *in* Jordan & Starks. Slipskin snailfish.
Liparis mucosus Ayres, 1855. Slimy snailfish.
Liparis pulchellus Ayres, 1855. Showy snailfish.
Liparis rutteri (Gilbert & Snyder, 1898, *in* Jordan & Evermann). Ringtail snailfish.
Lipariscus nanus Gilbert, 1915. Pygmy snailfish.
Nectoliparis pelagicus Gilbert & Burke, 1912. Tadpole snailfish.
Paraliparis albescens Gilbert, 1915. Phantom snailfish.
Paraliparis cephalus Gilbert, 1892. Swellhead snailfish.
Paraliparis dactylosus Gilbert, 1896. Red snailfish.
Paraliparis deani Burke, 1912. Prickly snailfish.
Paraliparis latifrons Garman, 1899. Bigpored snailfish.
Paraliparis mento Gilbert, 1892. Bulldog snailfish.
Paraliparis rosaceus Gilbert, 1890. Rosy snailfish.
Paraliparis sp.

Paraliparis sp.**Paraliparis ulochir** Gilbert, 1896. Broadfin snailfish.**Rhinoliparis attenuatus** Burke, 1912. Slim snailfish.**Rhinoliparis barbulifer** Gilbert, 1896. Longnose snailfish.

Percichthyidae. Temperate Basses

Howella brodiei Ogilby, 1899. Pelagic basslet.*Roccus chrysops* (Rafinesque, 1820). White bass.*Roccus saxatilis* (Walbaum, 1792). Striped bass.**Stereolepis gigas** Ayres, 1859. Giant sea bass.

Serranidae. Sea Basses

Epinephelus analogus Gill, 1863. Spotted cabrilla.**Epinephelus niveatus** (Valenciennes, 1828, *in* Cuvier & Valenciennes). Snowy grouper.**Hemanthias signifer** (Garman, 1899). Deepwater thread bass.**Holanthias gordensis** (Wade, 1946). Threadfin bass.**Mycteroperca jordani** (Jenkins & Evermann, 1889). Gulf grouper.**Mycteroperca xenarcha** Jordan, 1888. Broomtail grouper.**Paralabrax auroguttatus** Walford, 1936. Goldspotted rockbass.**Paralabrax clathratus** (Girard, 1854). Kelp bass.**Paralabrax maculatofasciatus** (Steindachner, 1868). Spotted sand bass.**Paralabrax nebulifer** (Girard, 1854). Barred sand bass.

Apogonidae. Cardinalfishes

Apogon guadalupensis (Osburn & Nichols, 1916). Guadalupe cardinalfish.

Priacanthidae. Bigeyes

Pseudopriacanthus serrula (Gilbert, 1891). Popeye catalufa.

Centrarchidae. Sunfishes

Archoplites interruptus (Girard, 1854). Sacramento perch.*Chaenobryttus gulosus* (Cuvier, 1829, *in* Cuvier & Valenciennes). Warmouth.*Lepomis cyanellus* Rafinesque, 1819. Green sunfish.*Lepomis gibbosus* (Linnaeus, 1758). Pumpkinseed.*Lepomis macrochirus* Rafinesque, 1819. Bluegill.*Lepomis microlophus* (Günther, 1859). Redear sunfish.*Micropterus coosae* Hubbs & Bailey, 1940. Redeye bass.*Micropterus dolomieu* Lacepède, 1802. Smallmouth bass.*Micropterus punctulatus* (Rafinesque, 1819). Spotted bass.*Micropterus salmoides* (Lacepède, 1802). Largemouth bass.*Micropterus salmoides floridanus* (Lesueur, 1822). Florida largemouth bass.*Micropterus salmoides salmoides* (Lacepède, 1802). Northern largemouth bass.*Pomoxis annularis* Rafinesque, 1818. White crappie.*Pomoxis nigromaculatus* (Lesueur, 1829, *in* Cuvier & Valenciennes). Black crappie.

Percidae. Perches

Perca flavescens (Mitchill, 1814). Yellow perch.*Percina macrolepida* Stevenson, 1971. Bigscale logperch.

Malacanthidae. Tilefishes

Caulolatilus princeps (Jenyns, 1840). Ocean whitefish.

Echeneididae. Remoras

- Echeneis naucrates* Linnaeus, 1758. Sharksucker.
Phtheichthys lineatus (Menzies, 1791). Slender suckerfish.
Remora australis (Bennett, 1840). Whalesucker.
Remora brachyptera (Lowe, 1839). Gray marlinsucker.
Remora osteochir (Cuvier, 1829). Hardfin marlinsucker.
Remora remora (Linnaeus, 1758). Remora.
Remorina albescens (Temminck & Schlegel, 1850, *in* Siebold). White suckerfish.

Carangidae. Jacks

- Caranx caballus* Günther, 1868. Green jack.
Caranx caninus Günther, 1868. Pacific crevalle jack.
Chloroscombrus orqueta Jordan & Gilbert, 1883. Pacific bumper.
Decapterus hypodus Gill, 1862. Mexican scad.
Naucrates ductor (Linnaeus, 1758). Pilotfish.
Selene peruviana (Guichenot, 1865). Pacific moonfish.
Seriola lalandi Valenciennes, 1833, *in* Cuvier & Valenciennes. Yellowtail.
Seriola lalandi dorsalis (Gill, 1863). California yellowtail.
Seriola rivoliana Valenciennes, 1833, *in* Cuvier & Valenciennes. Almaco jack.
Trachinotus paitensis Cuvier, [1832], *in* Cuvier & Valenciennes. Paloma pompano.
Trachinotus rhodopus Gill, 1863. Gafftopsail pompano.
Trachurus symmetricus (Ayres, 1855). Jackmackerel.
Uraspis secunda (Poey, 1860). Cottonmouth jack.

Nematistiidae. Roosterfishes

- Nematistius pectoralis* Gill, 1862. Roosterfish.

Coryphaenidae. Dolphins

- Coryphaena hippurus* Linnaeus, 1758. Dolphin.

Bramidae. Pomfrets

- Brama japonica* Hilgendorf, 1878. Pacific pomfret.
Brama orcini Cuvier, 1831, *in* Cuvier & Valenciennes. Tropical pomfret.
Pteraclis aesticola (Jordan & Snyder, 1901). North Pacific fanfish.
Taractes asper Lowe, 1843. Flathead pomfret.
Taractichthys steindachneri (Döderlein, 1883, *in* Steindachner & Döderlein). Pacific bigscale pomfret.

Caristiidae. Veilfins

- Caristius macropus* (Bellotti, 1903). Bigmouth veilfin.

Gerreidae. Mojarras

- Eucinostomus argenteus* Baird & Girard, 1855, *in* Baird. Silver mojarra.
Eucinostomus sp. Pacific flagfin mojarra.

Lutjanidae. Snappers

- Lutjanus argentiventris* (Peters, 1869). Amarillo snapper.
Lutjanus colorado Jordan & Gilbert, 1882. Colorado snapper.

Haemulidae. Grunts

- Anisotremus davidsonii* (Steindachner, 1875). Sargo.
Microlepidotus inornatus Gill, 1862. Wavyline grunt.
Xenistius californiensis (Steindachner, 1875). Salema.

Sparidae. Porgies

Calamus brachysomus (Lockington, 1880). Pacific porgy.

Sciaenidae. Croakers

Atractoscion nobilis (Ayes, 1860). White seabass.

Bairdiella icistia (Jordan & Gilbert, 1882). Bairdiella.

Cheilotrema saturnum (Girard, 1858). Black croaker.

Cynoscion parvipinnis Ayres, 1862. Shortfin corvina.

Cynoscion xanthulus Jordan & Gilbert, 1882. Orangemouth corvina.

Genyonemus lineatus (Ayes, 1855). White croaker.

Menticirrhus undulatus (Girard, 1854). California corbina.

Roncador stearnsii (Steindachner, 1875). Spotfin croaker.

Seriphus politus Ayres, 1860. Queenfish.

Umbrina roncador Jordan & Gilbert, 1882. Yellowfin croaker.

Mullidae. Goatfishes

Mulloidichthys dentatus (Gill, 1862). Mexican goatfish.

Pseudupeneus grandisquamis (Gill, 1863). Bigscale goatfish.

Kyphosidae. Sea Chubs

Hermosilla azurea Jenkins & Evermann, 1889. Zebraperch.

Kyphosus analogus (Gill, 1862). Blue-bronze sea chub.

Sectator ocyurus (Jordan & Gilbert, 1882). Bluestriped sea chub.

Girellidae. Nibblers

Girella nigricans (Ayes, 1860). Opaleye.

Scorpididae. Halfmoons

Medialuna californiensis (Steindachner, 1875). Halfmoon.

Ephippidae. Spadefishes

Chaetodipterus zonatus (Girard, 1858). Pacific spadefish.

Chaetodontidae. Butterflyfishes

Chaetodon falcifer Hubbs & Rehnitzner, 1958. Scythe butterflyfish.

Chaetodon humeralis Günther, 1860. Threeband butterflyfish.

Pentacerotidae. Armorheads

Pentaceros richardsoni Smith, 1844. Pelagic armorhead.

Embiotocidae. Surfperches

Amphistichus argenteus Agassiz, 1854. Barred surfperch.

Amphistichus koelzi (Hubbs, 1933). Calico surfperch.

Amphistichus rhodoterus (Agassiz, 1854). Redtail surfperch.

Brachyistius frenatus Gill, 1862. Kelperch.

Cymatogaster aggregata Gibbons, 1854. Shinerperch.

Cymatogaster aggregata aggregata Gibbons, 1854. Bay shinerperch.

Cymatogaster aggregata gracilis Tarp, 1952. Island shinerperch.

Damalichthys vacca Girard, 1855. Pileperch.

Embiotoca jacksoni Agassiz, 1853. Blackperch.

Embiotoca lateralis Agassiz, 1854. Striped seaperch.

Hyperprosopon argenteum Gibbons, 1854. Walleye surfperch.

Hyperprosopon ellipticum (Gibbons, 1854). Silver surfperch.

Hypocritichthys analis (Agassiz, 1861). Spotfin surfperch.

- Hypsurus caryi* (Agassiz, 1853). Rainbow seaperch.
Hysterochampus traskii Gibbons, 1854. Tuleperch.
Hysterochampus traskii lagunae Hopkirk, [1974]. Clear Lake tuleperch.
Hysterochampus traskii pomo Hopkirk, [1974]. Russian River tuleperch.
Hysterochampus traskii traskii Gibbons, 1854. Sacramento tuleperch.
Micrometrus aurora (Jordan & Gilbert, 1880). Reefperch.
Micrometrus minimus (Gibbons, 1854). Dwarfperch.
Phanerodon atripes (Jordan & Gilbert, 1880). Sharpnose seaperch.
Phanerodon furcatus Girard, 1854. White seaperch.
Rhacochilus toxotes Agassiz, 1854. Rubberlip seaperch.
Zalemnius rosaceus (Jordan & Gilbert, 1880). Pink seaperch.

Cichlidae. Cichlids

- Sarotherodon mossambicus* (Peters, 1852). Mozambique tilapia.
Tilapia zillii (Gervais, 1848). Redbelly tilapia.

Pomacentridae. Damselishes

- Chromis punctipinnis* (Cooper, 1863). Blacksmith.
Hypsypops rubicundus (Girard, 1854). Garibaldi.

Mugilidae. Mulletts

- Mugil cephalus* Linnaeus, 1758. Striped mullet.

Sphyrænidæ. Barracudas

- Sphyræna argentea* Girard, 1854. California barracuda.

Polynemidæ. Threadfins

- Polydactylus approximans* (Lay & Bennett, 1839). Blue bobo.
Polydactylus opercularis (Gill, 1863). Yellow bobo.

Labridæ. Wrasses

- Halichoeres semicinctus* (Ayres, 1859). Rock wrasse.
Oxyjulis californica (Günther, 1861). Señorita.
Semicossyphus pulcher (Ayres, 1854). California sheephead.

Trichodontidæ. Sandfishes

- Trichodon trichodon* (Tilesius, 1813). Pacific sandfish.

Bathymasteridæ. Ronquils

- Rathbunella hypoplecta* (Gilbert, 1890). Stripefin ronquil.
Rathbunella sp. Bluebanded ronquil.
Rathbunella sp. Deepwater ronquil.
Rathbunella sp. Fanged ronquil.
Ronquilus jordani (Gilbert, 1889). Northern ronquil.

Uranoscopidæ. Stargazers

- Kathetostoma averruncus* Jordan & Bollman, 1890. Smooth stargazer.

Chiasmodontidæ. Swallowers

- Chiasmodon niger* Johnson, 1864. Black swallower.
Chiasmodon sp.
Kali indica Lloyd, 1909. Shortnose swallower.

- Kali macrura* (Parr, 1933). Longnose swallower.
Kali normani (Parr, 1931). Needletooth swallower.
Pseudoscopelus sp.

Clinidae. Kelpfishes

- Alloclinus holderi* (Lauderbach, 1907, *in* Jordan & Starks). Island kelpfish.
Chaenopsis alepidota (Gilbert, 1890). Orangethroat pikeblenny.
Chaenopsis alepidota californiensis Böhlke, 1957. California orangethroat pikeblenny.
Cryptotrema corallinum Gilbert, 1890. Deepwater kelpfish.
Gibbonsia elegans (Cooper, 1864). Spotted kelpfish.
Gibbonsia elegans elegans (Cooper, 1864). Tidepool spotted kelpfish.
Gibbonsia elegans velifera Hubbs, 1952. Offshore spotted kelpfish.
Gibbonsia erythra Hubbs, 1952. Scarlet kelpfish.
Gibbonsia metzi Hubbs, 1927. Striped kelpfish.
Gibbonsia montereyensis Hubbs, 1927. Crevice kelpfish.
Gibbonsia montereyensis montereyensis Hubbs, 1927. Monterey crevice kelpfish.
Gibbonsia montereyensis vulgaris Hubbs, 1952. Northern crevice kelpfish.
Heterostichus rostratus Girard, 1854. Giant kelpfish.
Heterostichus rostratus rostratus Girard, 1854. California giant kelpfish.
Neoclinus blanchardi Girard, 1858. Sarcastic fringehead.
Neoclinus stephensae Hubbs, 1953. Yellowfin fringehead.
Neoclinus uninotatus Hubbs, 1953. Onespot fringehead.
Paraclinus integripinnis (Smith, 1880). Reef finspot.

Blenniidae. Combtooth Blennies

- Hypsoblennius gentilis* (Girard, 1854). Bay blenny.
Hypsoblennius gilberti (Jordan, 1882). Rockpool blenny.
Hypsoblennius jenkinsi (Jordan & Evermann, 1896, *in* Jordan). Mussel blenny.

Anarhichadidae. Wolffishes

- Anarhichthys ocellatus* Ayres, 1855. Wolf-eel.

Cebidichthyidae. Monkeyfaces

- Cebidichthys violaceus* (Girard, 1854). Monkeyface.
 Gen., sp.

Stichaeidae. Pricklebacks

- Allolumpenus hypochromus* Hubbs & Schultz, 1932. Y-prickleback.
Anoplarchus insignis Gilbert & Burke, 1912. Slender cockscomb.
Anoplarchus purpureus Gill, 1861. High cockscomb.
Anoplarchus purpureus archolepis Hubbs, 1927. Southern high cockscomb.
Anoplarchus purpureus purpureus Gill, 1861. Northern high cockscomb.
Chirolophis decoratus (Jordan & Snyder, 1902). Decorated warbonnet.
Chirolophis nugator (Jordan & Williams, 1895, *in* Jordan & Starks). Mosshead warbonnet.
Kasatkia sp. Sixspot prickleback.
Lumpenus sagitta Wilimovsky, 1956. Snake prickleback.
Phytichthys chirus (Jordan & Gilbert, 1880). Ribbon prickleback.
Phytichthys chirus chirus (Jordan & Gilbert, 1880). Southern ribbon prickleback.
Plagiogrammus hopkinsii Bean, 1894. Crisscross prickleback.
Plectobranhus evides Gilbert, 1890. Bluebarred prickleback.
Poroclinus rothrocki Bean, 1890. Whitebarred prickleback.

Stichaeopsis sp. Masked prickleback.

Xiphister atropurpureus (Kittlitz, 1858). Black prickleback.

Xiphister mucosus (Girard, 1858). Rock prickleback.

Cryptacanthodidae. Wrymouths

Delolepis gigantea (Kittlitz, 1858). Giant wrymouth.

Lyconectes aleutensis Gilbert, 1896. Dwarf wrymouth.

Scytalinidae. Graveldivers

Scytalina cerdale Jordan & Gilbert, 1880. Graveldiver.

Pholididae. Gunnels

Apodichthys flavidus Girard, 1854. Penpoint gunnel.

Pholis clemensi Rosenblatt, 1964. Longfin gunnel.

Pholis laeta (Cope, 1873). Crescent gunnel.

Pholis ornata (Girard, 1854). Saddleback gunnel.

Pholis schultzi Hubbs, 1931, *in* Schultz. Red gunnel.

Ulvicola sanctaerosae Gilbert & Starks, 1897, *in* Gilbert. Kelp gunnel.

Xererpes fucorum (Jordan & Gilbert, 1880). Rockweed gunnel.

Zaproridae. Prowfishes

Zaprora silenus Jordan, 1896. Prowfish.

Icosteidae. Ragfishes

Icosteus aenigmaticus Lockington, 1880. Ragfish.

Ammodytidae. Sand Lances

Ammodytes hexapterus Pallas, [1814]. Pacific sand lance.

Eleotrididae. Sleepers

Dormitator latifrons (Richardson, 1844, *in* Hinds). Pacific fat sleeper.

Eleotris picta Kner & Steindachner, 1863, *in* Kner. Spotted sleeper.

Gobiidae. Gobies

Acanthogobius flavimanus (Temminck & Schlegel, 1845, *in* Siebold). Yellowfin goby.

Clevelandia ios (Jordan & Gilbert, 1882). Arrow goby.

Coryphopterus nicholsii (Bean, 1882). Blackeye goby.

Eucyclogobius newberryi (Girard, 1856). Tidewater goby.

Gillichthys mirabilis Cooper, 1864. Longjaw mudsucker.

Gobionellus sagittula (Günther, 1861). Longtail goby.

Ilypnus gilberti (Eigenmann & Eigenmann, 1889). Cheekspot goby.

Lepidogobius lepidus (Girard, 1858). Bay goby.

Lethops connectens Hubbs, 1926. Kelp goby (halfblind goby).

Lythrypnus dalli (Gilbert, 1890). Bluebanded goby.

Lythrypnus dalli latifascia Ginsburg, 1939. Catalina bluebanded goby.

Lythrypnus zebra (Gilbert, 1890). Zebra goby.

Quietula y-cauda (Jenkins & Evermann, 1889). Shadow goby.

Tridentiger trigonocephalus (Gill, 1859). Chameleon goby (trident goby).

Typhlogobius californiensis Steindachner, 1880. Blind goby.

Scombridae. Mackerels

- Allothunnus fallai* Serventy, 1948. Slender tuna.
Auxis rochei (Risso, 1810). Bullet mackerel.
Auxis thazard (Lacepède, 1800). Frigate mackerel.
Euthynnus affinis (Cantor, 1849). Kawakawa.
Euthynnus lineatus Kishinouye, 1920. Black skipjack.
Katsuwonus pelamis (Linnaeus, 1758). Skipjack tuna.
Lepidocybium flavobrunneum (Smith, 1843). Escolar.
Sarda chiliensis (Cuvier, [1832], *in* Cuvier & Valenciennes). Pacific bonito.
Sarda chiliensis lineolata (Girard, 1858). California bonito.
Scomber japonicus Houttuyn, 1782. Pacific mackerel (chub mackerel).
Scomberomorus concolor (Lockington, 1879). Gulf sierra.
Scomberomorus sierra Jordan & Starks, 1895, *in* Jordan. Pacific sierra.
Thunnus alalunga (Bonnaterre, 1788). Albacore.
Thunnus albacares (Bonnaterre, 1788). Yellowfin tuna.
Thunnus obesus (Lowe, 1839). Bigeye tuna.
Thunnus thynnus (Linnaeus, 1758). Bluefin tuna.
Thunnus thynnus orientalis (Temminck & Schlegel, 1844, *in* Siebold). Pacific bluefin tuna.

Gempylidae. Snake Mackerels

- Diplospinus multistriatus* Maul, 1948. Ribbon snake mackerel.
Gempylus serpens Cuvier, 1829. Snake mackerel.
Ruvettus pretiosus Cocco, 1834. Oilfish.

Trichiuridae. Cutlassfishes

- Aphanopus carbo* Lowe, 1839. Black scabbardfish.
Assurger anzac (Alexander, 1917). Razorback scabbardfish.
Benthodesmus elongatus (Clarke, 1879). Frostfish.
Benthodesmus elongatus pacificus Parin & Becker, 1970. North Pacific frostfish.
Lepidopus xantusi Goode & Bean, 1896. Pacific scabbardfish.
Trichiurus nitens Garman, 1899. Pacific cutlassfish.

Istiophoridae. Billfishes

- Istiophorus platypterus* (Shaw & Nodder, 1792). Sailfish.
Makaira indica (Cuvier, [1832], *in* Cuvier & Valenciennes). Black marlin.
Makaira mazara (Jordan & Snyder, 1901). Pacific blue marlin.
Tetrapturus angustirostris Tanaka, 1915. Shortbill spearfish.
Tetrapturus audax (Philippi, 1887). Striped marlin.

Xiphiidae. Swordfishes

- Xiphias gladius* Linnaeus, 1758. Swordfish.

Luvaridae. Louvars

- Luvarus imperialis* Rafinesque, 1810. Louvar.

Stromateidae. Butterfishes

- Peprilus simillimus* (Ayres, 1860). Pacific butterfish.

Centrolophidae. Medusafishes

- Icichthys lockingtoni* Jordan & Gilbert, 1880. Medusafish.

Tetragonuridae. Squaretails

Tetragonurus cuvieri Risso, 1810. Smalleye squaretail.

Nomeidae. Flotsamfishes

Cubiceps sp. Large driftfish.

Psenes pellucidus Lütken, 1880. Blackrag.

Bothidae. Lefteyed Flounders

Citharichthys fragilis Gilbert, 1890. Gulf sanddab.

Citharichthys sordidus (Girard, 1854). Pacific sanddab.

Citharichthys stigmaeus Jordan & Gilbert, 1882. Speckled sanddab.

Citharichthys xanthostigma Gilbert, 1890. Longfin sanddab.

Hippoglossina stomata Eigenmann & Eigenmann, 1890. Bigmouth sole.

Paralichthys californicus (Ayres, 1859). California halibut.

Xystreurus liolepis Jordan & Gilbert, 1880. Fantail sole.

Pleuronectidae. Righteyed Flounders

Atheresthes stomias (Jordan & Gilbert, 1880). Arrowtooth flounder.

Embassichthys bathybius (Gilbert, 1890). Deepsea sole.

Eopsetta jordani (Lockington, 1879). Petrale sole.

Glyptocephalus zachirus Lockington, 1879. Rex sole.

Hippoglossoides elassodon Jordan & Gilbert, 1880. Flathead sole.

Hippoglossus stenolepis Schmidt, 1904. Pacific halibut.

Hypsopsetta guttulata (Girard, 1856). Diamond turbot.

Inopsetta ischyra (Jordan & Gilbert, 1880).¹

Isopsetta isolepis (Lockington, 1880). Butter sole.

Lepidopsetta bilineata (Ayres, 1855). Rock sole.

Lyopsetta exilis (Jordan & Gilbert, 1880). Slender sole.

Microstomus pacificus (Lockington, 1879). Dover sole.

Parophrys vetulus Girard, 1854. English sole.

Platichthys stellatus (Pallas, 1787). Starry flounder.

Platichthys stellatus rugosus Girard, 1854. Southern starry flounder.

Pleuronichthys coenosus Girard, 1854. C-O turbot.

Pleuronichthys decurrens Jordan & Gilbert, 1881. Curlfin turbot.

Pleuronichthys ritteri Starks & Morris, 1907. Spotted turbot.

Pleuronichthys verticalis Jordan & Gilbert, 1880. Hornyhead turbot.

Psettichthys melanostictus Girard, 1854. Sand sole.

Reinhardtius hippoglossoides (Walbaum, 1792). Greenland halibut (Greenland turbot).

Achiridae. Broad Soles

Achirus mazatlanus (Steindachner, 1869). Pacific lined sole.

Cynoglossidae. Tonguefishes

Symphurus atricauda (Jordan & Gilbert, 1880). California tonguefish.

Balistidae. Triggerfishes

Balistes polylepis Steindachner, 1876. Finescale triggerfish.

Melichthys niger (Bloch, 1786). Black durgon.

Xanthichthys mento (Jordan & Gilbert, 1882). Redtail triggerfish.

¹ This nominal species is currently regarded as a hybrid: *Parophrys vetulus* × *Platichthys stellatus*.

Ostraciidae. Boxfishes

Lactoria diaphana (Bloch & Schneider, 1801). Spiny boxfish.

Tetraodontidae. Puffers

Lagocephalus lagocephalus (Linnaeus, 1758). Oceanic puffer.

Sphoeroides annulatus (Jenyns, 1842). Bullseye puffer.

Sphoeroides lobatus (Steindachner, 1870). Longnose puffer.

Diodontidae. Porcupinefishes

Chilomycterus affinis Günther, 1870. Pacific burrfish.

Diodon holocanthus Linnaeus, 1758. Balloonfish.

Diodon hystrix Linnaeus, 1758. Porcupinefish.

Molidae. Molas

Mola mola (Linnaeus, 1758). Ocean sunfish.

Ranzania laevis (Pennant, 1776). Slender mola.

INTRODUCED FISHES NOT KNOWN TO OCCUR AT PRESENT IN CALIFORNIA

Anguillidae. Freshwater Eels

Anguilla anguilla (Linnaeus, 1758). European eel.

Anguilla rostrata (Lesueur, 1817). American eel.

Esocidae. Pikes

Esox lucius Linnaeus, 1758. Northern pike.

Esox masquinongy Mitchill, 1824. Muskellunge.

Esox vermiculatus Lesueur, 1846, *in* Cuvier & Valenciennes. Grass pickerel.

Plecoglossidae. Ayu

Plecoglossus altivelis Temminck & Schlegel, 1846, *in* Siebold. Ayu.

Coregonidae. Whitefishes

Coregonus clupeaformis (Mitchill, 1818). Lake whitefish.

Prosopium gemmiferum (Snyder, 1919). Bonneville cisco.

Salmonidae. Trouts

Salmo salar Linnaeus, 1758. Atlantic salmon.

Chanidae. Milkfishes

Chanos chanos (Forsskål, 1775). Milkfish.

Characidae. Characins

Astyanax fasciatus (Cuvier, 1819). Banded tetra.

Astyanax fasciatus mexicanus (De Filippi, 1853). Mexican banded tetra.

Cyprinidae. Minnows

Barbus tetrazona Bleeker, 1857. Tiger barb.

Brachydanio rerio (Hamilton, 1822). Zebra danio.

Ctenopharyngodon idella (Valenciennes, 1844, *in* Cuvier & Valenciennes). Grass carp.

Catostomidae. Suckers

Ictiobus bubalus (Rafinesque, 1818). Smallmouth buffalo.

Oryziatidae. Medakas

Oryzias latipes (Temminck & Schlegel, 1846, *in* Siebold). Medaka.

Cyprinodontidae. Killifishes

Cynolebias bellottii Steindachner, 1881. Argentine pearlfish.

Rivulus hartii (Boulenger, 1890). Trinidad rivulus.

Poeciliidae. Livebearers

Lebistes reticulatus (Peters, 1859). Guppy.

Xiphophorus hellerii Heckel, 1848. Green swordtail.

Xiphophorus maculatus (Günther, 1866). Southern platyfish.

Xiphophorus variatus (Meek, 1904). Variable platyfish.

Centrarchidae. Sunfishes

Ambloplites rupestris (Rafinesque, 1817). Rock bass.

Percidae. Perches

Stizostedion vitreum (Mitchill, 1818). Walleye.

Cichlidae. Cichlids

Cichlasoma beanii (Jordan, 1889). Green guapote.

Pterophyllum sp. Angelfish.

Labridae. Wrasses

Tautoga onitis (Linnaeus, 1758). Tautog.

Stromateidae. Butterfishes

Peprilus ovatus Horn, 1970. Gulf butterfish.

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